



CAROLINA

MICROWAVE ASSOCIATES, INC
DOD CAGE CODE 7L6Q3



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Antennas

1.5-30 MHz Antennas

HF-30A

Frequency Range	2-30 MHz
Bandwidth	Full Band
Gain	2.15 dBi
VSWR	≤ 2 (2-18 MHz) ≤ 3 (18-30 MHz)
Nominal Impedance	50 ohm
Polarization	Horizontal
Maximum Power	150 W
Length	25 m / 82.02 ft
Weight	2.5 kg / 5.51 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF Female

HF-30B

Frequency Range	1.5-30 MHz
Bandwidth	Full Band
Gain	2.15 dBi
VSWR	≤ 2
Nominal Impedance	50 ohm
Polarization	Horizontal
Maximum Power	150 W
Length	15 m / 49.21 ft
Weight	1.5 kg / 3.31 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF Female

80-1300 MHz

Discone Antennas



DC-1000

(Pictured above)

Frequency Range	100-1000 MHz
Bandwidth	900 MHz
Gain	1-3.5 dBi
VSWR	≤ 2
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	150 W
Length	2 m / 6.56 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF Female

DC-1000B

(Pictured above)

Frequency Range	80-1300 MHz
Bandwidth	1220 MHz
Gain	1-3.5 dBi
VSWR	≤ 2
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	150 W
Length	2 m / 6.56 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF Female

134-174 MHz

Fiberglass Omnidirectional Antennas



Carolina Microwave FO150-3
(Pictured above)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.3 m / 4.26 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	62°
Pattern	Omnidirectional

Carolina Microwave FO150-3.2
(Pictured above)

Frequency Range	134-173 MHz
Bandwidth	25 MHz
Gain	3.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.7 m / 5.58 ft
Weight	2 kg / 4.41 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	60°
Pattern	Omnidirectional

Carolina Microwave FO150-3.6
(Pictured left)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain	3.65 dBi
VSWR	≤ .5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.5 m / 4.92 ft
Weight	2 kg / 4.41 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF Female
3dB Beamwidth in Vertical Plane	58°
Pattern	Omnidirectional

Carolina Microwave FO150-6.5
(Pictured left)

Frequency Range	134-173 MHz
Bandwidth	6 MHz
Gain	6.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	3.3 m / 10.83 ft
Weight	3 kg / 6.61 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF Female
3dB Beamwidth in Vertical Plane	25°
Pattern	Omnidirectional

Carolina Microwave FO150-6.5B
(pictured left)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain	6.5 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	150 W
Length	2.9 m / 9.51 ft
Weight	2.8 kg / 6.17 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	25°
Pattern	Omnidirectional

Carolina Microwave FO150-8.5

(Pictured on previous page)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain	8.5 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	150 W
Length	4.7 m / 15.42 ft
Weight	3.5 kg / 7.72 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	14.5°
Pattern	Omnidirectional

Carolina Microwave FO150-8.7

(Pictured on previous page)

Frequency Range	134-173 MHz
Bandwidth	2.5 MHz
Gain	8.7 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	300 W
Length	5.7 m / 18.70 ft
Weight	5 kg / 11.02 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	13.5°
Pattern	Omnidirectional

134-174 MHz

Exposed Dipole Array Antennas



Carolina Microwave DP150-8.8

(pictured above)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain Omnidirectional	8.8 dBi
Gain Directional	11.8 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	5 m / 16.40 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	13.5°
Pattern	Omnidirectional

Carolina Microwave DP150-9

(Pictured on previous page)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain Omnidirectional	9 dBi
Gain Directional	12 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	6.7 m / 21.98 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	13°
Pattern	Omnidirectional

Carolina Microwave DP150-10

(Pictured below)



Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain	10 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	6.7 m / 21.98 ft
Weight	30 kg / 66.14 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	10°
Pattern	Omnidirectional

Carolina Microwave DP150-11.8

(pictured below)



Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain Omnidirectional	11.8 dBi
Gain Directional	14.8 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	10 m / 32.81 ft
Weight	30 kg / 66.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	6.8°
Pattern	Omnidirectional

Carolina Microwave DP150-12

(pictured above)

Frequency Range	134-173 MHz
Bandwidth	8 MHz
Gain Omnidirectional	12 dBi
Gain Directional	15 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	13 m / 42.65 ft
Weight	35 kg / 77.16 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	6.5°
Pattern	Omnidirectional

134-174 MHz

Yagi Antennas

Carolina Microwave YA150-9-5 (Pictured below)



Frequency Range	134-173 MHz
Bandwidth	10 MHz
Gain	9dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	UHF or N Female
3dB Beamwidth – E Plane	48°
3dB Beamwidth – H Plane	54°
F/B Ratio	≥ 14 dB
Length	1.2 m / 3.94 ft
Weight	2.4 kg / 5.29 lb
Rated Wind Velocity	216 km/h / 135 mph

Carolina Microwave YA150-11.2-8 (Pictured below)



Frequency Range	134-173 MHz
Bandwidth	10 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	2 m / 6.56 ft
Weight	3.2 kg / 7.05 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	44°
F/B	≥ 16dB

Carolina Microwave YA150-12-10 (Pictured below)



Frequency Range	134-173MHz
Bandwidth	10 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.2 m / 3.94 ft
Weight	5 kg / 11.02 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	48°
3dB Beamwidth H Plane	28°
F/B	14dB

Carolina Microwave YA150-14.5-16
(Pictured below)



Frequency Range	134-173 MHz
Bandwidth	10 MHz
Gain	14.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2 m / 6.56 ft
Weight	7 kg / 15.43 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	20°
F/B	≥ 16dB

220-290 MHz

Fiberglass Omnidirectional Antennas



Carolina Microwave FO230-6.5
(Pictured above)

Frequency Range	220-290 MHz
Bandwidth	9 MHz
Gain	6.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	150 W
Length	2.6 m / 8.53 ft
Weight	2.5 kg / 5.51 lb
Connector	UHF or N Female
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

Carolina Microwave FO230-8.5
(Pictured above)

Frequency Range	220-290 MHz
Bandwidth	9 MHz
Gain	8.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	150 W
Length	4.4 m / 14.44 ft
Weight	3.5 kg / 7.72 lb
Connector	UHF or N Female
Rated Wind Velocity	216 km/h / 135 mph
3dB Beamwidth in Vertical Plane	14.5°
Pattern	Omnidirectional

220-290 MHz Exposed Dipole Array Antennas



Carolina Microwave DP230-9
(Pictured above)

Frequency Range	220-290 MHz
Bandwidth	9 MHz
Gain	9 dBi
VSWR	≤ 1.5 (Center Frequency ≤1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	3.6 m / 11.81 ft
Weight	11 kg / 24.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth	13°
Vertical Plane	
Pattern	Omnidirectional

Carolina Microwave DP230-10
(Pictured below)



Frequency Range	220-290 MHz
Bandwidth	9 MHz
Gain	10 dBi
VSWR	≤ 1.5 (Center Frequency ≤1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	3.6 m / 18.81 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth	10.5°
Vertical Plane	
Pattern	Omnidirectional

Carolina Microwave DP230-12
(Pictured below)



Frequency Range	220-290 MHz
Bandwidth	9 MHz
Gain	12 dBi
VSWR	≤ 1.5 (Center Frequency ≤1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	7 m / 22.97 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth Vertical Plane Pattern	6.5° Omnidirectional

220-290 MHz
Glass Mount Antennas

Carolina Microwave GLMNT230-2
(Pictured below)



Frequency Range	220-290 MHz
Bandwidth	9 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	30 W
Length	16 cm / 6.30 in
Weight	100 kg / 220.46 lb
Mounting Way	Glass Mount
Connector	Custom

220-290 MHz

Yagi Antennas

Carolina Microwave YA150-9-5 (Pictured below)



Frequency Range	134-173 MHz
Bandwidth	10 MHz
Gain	9dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	UHF or N Female
3dB Beamwidth – E Plane	48°
3dB Beamwidth – H Plane	54°
F/B Ratio	≥ 14 dB
Length	1.2 m / 3.94 ft
Weight	2.4 kg / 5.29 lb
Rated Wind Velocity	216 km/h / 135 mph

Carolina Microwave YA150-11.2-8 (Pictured below)



Frequency Range	134-173 MHz
Bandwidth	10 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	2 m / 6.56 ft
Weight	3.2 kg / 7.05 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	44°
F/B	≥ 16dB

Carolina Microwave YA150-12-10 (Pictured below)



Frequency Range	134-173MHz
Bandwidth	10 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.2 m / 3.94 ft
Weight	5 kg / 11.02 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	48°
3dB Beamwidth H Plane	28°
F/B	14dB

Carolina Microwave YA150-14.5-16
(Pictured below)



Frequency Range	134-173 MHz
Bandwidth	10 MHz
Gain	14.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2 m / 6.56 ft
Weight	7 kg / 15.43 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	20°
F/B	≥ 16dB

(Specs not included for the following. Please contact us for more information.)

Model#	Frequency Range - MHz	Gain - dBi
YA230-9	220-290	9
YA230-10	220-290	10

330-390 MHz

Fiberglass Omnidirectional Antennas



Carolina Microwave FO330-7.8
(Pictured above)

Frequency Range	330-390 MHz
Bandwidth	14 MHz
Gain	7.8 dBi
VSWR	≤ 1.5 (Center Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.7 m / 5.58 ft
Weight	2 kg / 4.41 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female
3dB Beamwidth Vertical Plane	17°
Pattern	Omnidirectional

Carolina Microwave FO330-8.5
(Pictured above)

Frequency Range	330-390 MHz
Bandwidth	14 MHz
Gain	8.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2.6 m / 8.53 ft
Weight	6 kg / 13.28 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth Vertical Plane	14.5°
Pattern	Omnidirectional

Carolina Microwave FO330-10.2

(Pictured left)

Frequency Range	330-390 MHz
Bandwidth	14 MHz
Gain	15 dBi
VSWR	≤ 1.5 (Center Frequency ≤1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	4.7 m / 15.42 ft
Weight	3.5 kg / 7.72 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth Vertical Plane	10°
Pattern	Omnidirectional

Carolina Microwave FO330-8.5

(Pictured left)

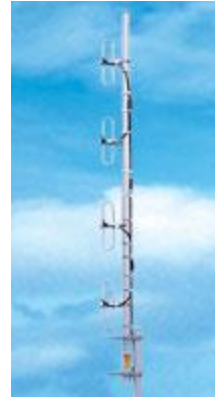
Frequency Range	330-390 MHz
Bandwidth	14 MHz
Gain	8.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2.6 m / 8.53 ft
Weight	3.2 kg / 7.05 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth Vertical Plane	14.5°
Pattern	Omnidirectional

330-390 MHz

Exposed Dipole Array Antennas

Carolina Microwave DP330-9

(pictured below)



Frequency Range	330-390 MHz
Bandwidth	16 MHz
Gain Omnidirectional	9 dBi
Gain Directional	12 dBi
VSWR	≤ 1.5 (Center Frequency ≤1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2.6 m / 8.53 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth Vertical Plane	14.5°
Pattern	Omnidirectional

Carolina Microwave DP330-12
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	16 MHz
Gain Omnidirectional	12 dBi
Gain Directional	15 dBi
VSWR	≤ 1.5 (Center Frequency ≤1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	6 m / 19.69 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth Vertical Plane	6.5°

330-390 MHz
Rubber Duck Antennas

Carolina Microwave RD330-1.8
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	15 MHz
Gain	1.85 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	10 cm / 3.94 in
Weight	50 g / 1.76 oz (avoirdupois)
Connector	STUD Male

330-390 MHz Glass Mount Antennas

Carolina Microwave GLMNT330-2B
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	15 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	30 W
Length	14 cm / 5.51 in
Weight	100 g / 0.22 lb
Connector	BNC or Custom

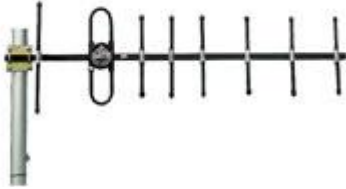
330-390 MHz Yagi Antennas

Carolina Microwave YA350-9-5
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	25 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	0.8 - 2.1 m / 2.62 - 6.89 ft
Weight	0.8 - 1.8 kg / 1.76 - 3.97 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	48-30 °
3dB Beamwidth H Plane	54-30 °
F/B	14-18 dB

Carolina Microwave YA350-11.2-8
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	25 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	1.5 m / 4.92 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	44°
F/B	16 dB

Carolina Microwave YA350-13-15
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	25 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	2.1 m / 6.89 ft
Weight	1.4 kg / 3.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	30°
F/B	18 dB

Carolina Microwave YA350-12-12
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	25 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	1.8 m / 5.91 ft
Weight	1.2 kg / 2.65 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	36°
F/B	18 dB

YA350-15.7
(Pictured below)



Frequency Range	330-390 MHz
Bandwidth	25 MHz
Gain	15.7 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2.1 m / 6.89 ft
Weight	3 kg / 6.61 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	14°
F/B	18 dB

400-512 MHz

Base Station Sector Antennas

BP450-8.6-65 (Pictured below)

BP450-6-85 (Pictured below)



Frequency Range	450-470 MHz
Gain	6 dBi
Horizontal Beamwidth	85°
Vertical Beamwidth	120°
F/B Ratio	≥ 15
VSWR	≤ 1.5
Input Impedance	50 Ω
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Size	240mm × 230mm × 50mm / 9.45 in × 9.06 in × 1.97 in



Frequency Range	450-470 MHz
Gain	8.6 dBi
Bandwidth	15 MHz
Horizontal Beamwidth	65°
Vertical Beamwidth	16°
F/B Ratio	≥ 16 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Input Impedance	50 ohm
Polarization	Vertical
Lightning Protection	DC Ground
Maximum Input Power	500 W
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	565mm × 490mm × 110mm / 1.85 ft × 1.61 ft × 0.36 ft
Weight	3.5 kg / 7.72 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 90 mm / φ 1.57 – 3.54 in

BP450-11.1-65
(Pictured below)



Frequency Range	450-470 MHz
Gain	11.1 dBi
Bandwidth	15 MHz
Horizontal Beamwidth	65°
Vertical Beamwidth	30°
F/B Ratio	≥ 20dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Input Impedance	50 ohm
Polarization	Vertical
Lightning Protection	DC Ground
Maximum Input Power	500 W
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1030mm × 490mm ×110mm / 3.38 ft × 1.61 ft × .36 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 90 mm / φ 1.57 – 3.54 in

Note: Can be tuned to 410-430MHz

BPD450-11.6-65
(Pictured below)



Frequency Range	450-470 MHz
Gain	11.6 dBi
Bandwidth	15 MHz
Horizontal Beamwidth	65°
Vertical Beamwidth	30°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Input Impedance	50 ohm
Polarization	± 45
Isolation	≥ 25 dB
Cross-polar Discrimination	≥ 15 dB
Maximum Power	500 W
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1534mm × 518mm × 132mm / 5.03 ft × 1.70 ft × .43 ft
Weight	13 kg / 28.66 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Lightning Protection	DC Ground

Note: Can be tuned to work at 410-430MHz

BP450-14.1-65
(Pictured below)



Frequency Range	450-470 MHz
Gain	14.1 dBi
Bandwidth	15 MHz
Horizontal Beamwidth	65°
Vertical Beamwidth	15°
F/B Ratio	≥ 20dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Input Impedance	50 ohm
Polarization	Vertical
Lightning Protection	DC Ground
Maximum Input Power	500 W
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2060mm × 490mm × 110mm / 6.76 ft × 1.61 ft × .36 ft
Weight	11 kg / 24.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 90 mm / φ 1.57 – 3.54 in

Note: Can be tuned to 410-430MHz

BP450-11.6-65
(Pictured below)



Frequency Range	450-470 MHz
Gain	11.6 dBi
Bandwidth	15 MHz
Horizontal Beamwidth	65°
Vertical Beamwidth	30°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Input Impedance	50 ohm
Polarization	± 45
Isolation	≥ 25 dB
Cross-polar Discrimination	≥ 15 dB
Maximum Power	500 W
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1534mm × 518mm × 132mm / 5.03 ft × 1.70 ft × .43 ft
Weight	13 kg / 28.06 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 90 mm / φ 1.57 – 3.54 in
Lightning Protection	DC Ground

Note: Can be tuned to 410-430MHz

400-512 MHz Ceiling Mount Antennas

CM450-2
(Pictured below)



Frequency Range	450-470 MHz
Gain	2 dBi
VSWR	≤ 1.5
Input Impedance	50 Ω
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Size	φ 180 × 190mm / φ 7.09 × 7.48 in
Mounting Method	Fix with Nut

CM400-2
(Pictured below)



Frequency Range	400-430 MHz
Gain	2 dBi
VSWR	≤ 1.3
Input Impedance	50 Ω
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Size	φ 180 × 190mm / φ 7.09 × 7.48 in
Mounting Method	Fix with Nut

400-512 MHz Fiberglass Omnidirectional Antennas

FO450-7.8
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	7.8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.7 m / 5.58 ft
Weight	2.0 kg / 4.41 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	17°
Pattern	Omnidirectional

FO450-8.5
(Pictured previously)

Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	8.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2.6 m / 8.53 ft
Weight	2.5 kg / 5.51 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	14.5°
Pattern	Omnidirectional

FO450-10.2
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	10.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	4 m / 13.12 ft
Weight	3.5 kg / 7.72 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	10°
Pattern	Omnidirectional

FO450-6.5
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	6.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1 m / 3.28 ft
Weight	1 kg / 2.20 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	25°
Pattern	Omnidirectional

FO450-7.8B
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	7.8 dBi
VSWR	≤ 1.5 (Frequency Point / Working Frequency ≤ 1.2)
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.5 m / 4.92 ft
Weight	1.2 kg / 2.65 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	17°
Pattern	Omnidirectional

400-512 MHz
Glass Mount Antennas

GLMNT450-2
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	BNC Male or Custom
Length	12 cm / 4.72 in
Weight	100 g / 3.53 (avoirdupois)
Mounting	Glass Mount

400-512 MHz Exposed Dipole Array Antennas

DP450-6.5
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	6.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1 m / 3.28 ft
Weight	1 kg / 2.20 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	25°
Pattern	Omnidirectional

DP450-7.8
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	7.8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.7 m / 5.58 ft
Weight	2.0 kg / 4.41 lb
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	17°
Pattern	Omnidirectional

DP450-9
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain Omnidirectional	9 dBi
Gain Directional	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	2.5 m / 8.20 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth	13 °
Vertical Plane	

DP450-12
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain Omnidirectional	12 dBi
Gain Directional	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Length	5 m / 16.40 ft
Weight	15 kg / 33.06 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth	6.5°
Vertical Plane	

DP450-10.2
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	10.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	4 m / 13.12 ft
Weight	3.5 kg / 7.72
Connector	UHF or N Female
3dB Beamwidth in Vertical Plane	10°
Pattern	Omnidirectional

400-512 MHz Rubber Duck Antennas

RD450-2-5
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	30 W
Connector	STUD Male
Length	10 cm / 3.94 in
Weight	20 g / 0.71 oz (avoirdupois)

RD450-2A-B
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	2 dBi
VSWR	≤ 2
Nominal Impedance	50 ohm
Polarization	Circular
Maximum Power	30 W
Connector	BNC or TNC
Length	7 cm / 2.76 in
Weight	20 g / 0.71 oz (avoirdupois)

RD450-2A-T
(Previously pictured)

Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	2 dBi
VSWR	≤ 2
Nominal Impedance	50 ohm
Polarization	Circular
Maximum Power	30 W
Connector	BNC or TNC
Length	7 cm / 2.76 in
Weight	20 g / 0.71 oz (avoirdupois)

RD450-2-B
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	30 W
Connector	BNC or TNC
Length	7 cm / 2.76 in
Weight	20 g / 0.71 oz (avoirdupois)

RD450-2-T
(Previously pictured)

Frequency Range	400-480 MHz
Bandwidth	16 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	30 W
Connector	BNC or TNC
Length	7 cm / 2.76 in
Weight	20 g / 0.71 oz (avoirdupois)

400-512 MHz

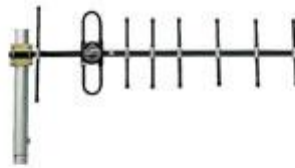
Yagi Antennas

YA450-9-5 (Pictured below)



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	0.8 - 2 m / 2.62 - 6.56 ft
Weight	0.8 - 1.4 kg / 1.76 - 3.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	48-30°
3dB Beamwidth H Plane	54-30°
F/B	14-18 dB

YA450-11.2-8 (Pictured below)



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	1.2 m / 3.94 ft
Weight	0.8 kg / 1.76 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	44°
F/B	16 dB

YA450-12-12 (Pictured below)



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	1.5 m / 4.92 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	36°
F/B	18 dB

YA450-13-15 (Pictured below)



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	0.8 - 2 m / 2.62 - 6.56 ft
Weight	0.8 - 1.4 kg / 1.76 - 3.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	48-30°
3dB Beamwidth H Plane	54-30°
F/B	14-18 dB

*Please specify center frequency when ordering.

YA450-14.7-24
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	14.7 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	1.5 m / 4.90 ft
Weight	3.4 kg / 7.50 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	20°
F/B	18 dB

YA450-13-15B



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Length	2 m / 6.56 ft
Weight	1.2 kg / 2.65 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	30°
F/B	18 dB

YA450-15.7-30
(Pictured below)



Frequency Range	400-480 MHz
Bandwidth	28 MHz
Gain	15.7 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Length	2 m / 6.56 ft
Weight	4 kg / 8.82 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	UHF or N Female
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	14°
F/B	18 dB

800-960 MHz

Base Station Sector Antennas

BP806-15.7-60 (Pictured below)



Frequency Range	806-896 MHz
Gain	15.7dBi
3D Beamwidth Vertical Plane	12°
3d Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × .42 ft
Weight	11.3 kg / 24.91 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passive Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110 dB
Isolation	≥ 30dB
Electrical Downtilt	Adjustable from 0 to 6°

BP806-13.4-120

(Pictured on previous page)

Frequency Range	806-896MHz
Bandwidth	90 MHz
Gain	13.4 dBi
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Connector	N Female or 7/16 DIN Female
3dB Beamwidth Vertical Plane	14°
3dB Beamwidth Horizontal Plane	120°
F/B	≥ 27 dB
Intermodulation	≤ 110dB
Lightning Protection	DC Ground
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.11 lb
Back panel material	Aluminum Alloy
Rated Wind Velocity	216 km/h / 135 mph
Modame Material	Fiberglass
Mounting mast diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP806-16.1-120

(Pictured on previous page)

Frequency Range	806-896 MHz
Gain	16.1 dBi
3D Beamwidth Vertical Plane	7°
3D Beamwidth Horizontal Plane	120°
F/B Ratio	≥ 27dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	All metal part grounded
Intermodulation (IM3)	≤ 110
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passive Plane
Radome Material	Fiberglass

BP806-17.6-60

(Pictured on previous page)

Frequency Range	806-896 MHz
Gain	15.7dBi
3dB Beamwidth Vertical Plane	7.5°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection Connector	All metal parts grounded N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	18.6 kg / 41.0 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ 110 dB
Isolation	≥ 30dB

BP806-16.1-60

(Pictured on previous page)

Frequency Range	806-896 MHz
Gain	16.1 dBi
3dB Beamwidth Vertical Plane	14°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	Vertical
Maximum Input Power	500 W
Lightning Protection Connector	All metal parts grounded N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.1 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ 110 dB

BP806-18.1-60

(not pictured)

Frequency Range	806-896 MHz
Gain	18.1 dBi
3dB Beamwidth Vertical Plane	8°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 27 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	Vertical
Maximum Input Power	500 W
Lightning Protection Connector	All metal parts grounded N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 66mm / 7.20 ft × 1.0 ft × 0.22 ft
Weight	12.25 kg / 27.01 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ 110 dB

BP806-14.1-90

(Previously Pictured)

Frequency Range	806-896 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	12°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × .42 ft
Weight	11.5 kg / 25.35 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BP806-13.1-90
(Previously Pictured)

Frequency Range	806-896 MHz
Gain	13.1 dBi
3dB Beamwidth	15°
Vertical Plane	
3dB Beamwidth	90°
Horizontal Plane	
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	19.5 kg / 42.99 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Material	
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 –
Diameter	3.50 in
Intermodulation	≤ 110 dB

BP806-14.1-90K
(Previously pictured)

Frequency Range	806-896 MHz
Gain	14.1 dBi
3dB Beamwidth	15°
Vertical Plane	
3dB Beamwidth	90°
Horizontal Plane	
F/B Ratio	≥ 40 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	4.6 kg / 10.14 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Material	
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 –
Diameter	3.50 in

BP806-90-16.6
(not pictured)

Frequency Range	806-896 MHz
Gain	16.6 dBi
3dB Beamwidth	7°
Vertical Plane	
3dB Beamwidth	90°
Horizontal Plane	
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 521mm × 130mm / 7.20 ft × 1.71 ft × .43 ft
Weight	18.6 kg / 41.0 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Material	
Lightning Protection	All metal parts grounded
Radome Material	Fiberglass
Intermodulation (IM3)	≤ 110dB

BP824-13.4-120
(not pictured)

Frequency Range	824-896MHz
Bandwidth	72 MHz
Gain	13.4 dBi
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Connector	N Female or 7/16 DIN Female
3dB Beamwidth	14°
Vertical Plane	
3dB Beamwidth	120°
Horizontal Plane	
F/B	≤ 27 dB
Intermodulation (IM3)	≤ 110dB
Lightning Protection	All metal parts grounded
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.11 lb
Back panel material	Aluminum Alloy
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 –
	3.50 in
Rated Wind Velocity	216 km/h / 135 mph

BP824-13.1-90
(Not pictured)

Frequency Range	824-896 MHz
Gain	13.1 dBi
3D Beamwidth Vertical Plane	15°
3d Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	19.5 kg / 42.99 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ 110 dB

BP824-15.7-60K
(Previously pictured)

Frequency Range	806-896 MHz
Gain	15.7dBi
3D Beamwidth Vertical Plane	12°
3d Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × .42 ft
Weight	11.3 kg / 24.91 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passive Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110 dB
Isolation	≥ 30dB
Electrical Downtilt	Adjustable from 0 to 6°

BPD800-15-30To
(Previously pictured)

Frequency Range	806-896 MHz
Bandwidth	90 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Dimensions	900mm × 550mm × 190mm / 2.95 ft × 1.80 ft × 0.62 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16 DIN Female
Horizontal Beamwidth	30°
Vertical Beamwidth (3dB)	30°
F/B	≥ 30dB
Isolation	> 30 dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC ground
Random Material	Fiberglass, UV-Resistance ABS

BPD890-15.7-60
(Pictured below)



Frequency Range	806-896 MHz
Gain	15.7 dBi
3D Beamwidth Vertical Plane	12°
3d Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.05 ft × .42 ft
Weight	11.3 kg / 24.91 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passive Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110 dB
Isolation	≥ 30dB
Electrical Downtilt	Adjustable from 0 to 6°

BP806-17.5
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	17.5-14dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	300 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	16°
3dB Beamwidth Horizontal Plane	40-90°
F/B	≥ 40 dB
Length	1.3 m / 4.27 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph

BP824-16.1-120
(no picture available)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Passivated Aluminum
Material	
Back Panel Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 – 3.50 in
Diameter	

BP824-16.1-120T6
(no picture available)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
Electrical Downtilt	6°
F/B Ratio	≥ 20 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's	Brass
Material	
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 – 3.50 in
Diameter	

BP824-16.1-120T6
(no picture available)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
Electrical Downtilt	6°
F/B Ratio	≥ 20 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Element's	Brass
Material	
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 – 3.50 in
Diameter	

BP824-15.7-60
(no picture available)

Frequency Range	824-896 MHz
Gain	15.7 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	12°
F/B Ratio	≥ 25dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × .42 ft
Weight	16 kg / 35.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Material	
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 – 3.50 in
Diameter	
Intermodulation (IM3)	≤ -110
Isolation	≥ 28dB

BP824-15-60
(not pictured)

Frequency Range	824-896 MHz
Gain	15.7 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	16°
F/B Ratio	≥ 25dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-16.1-60A
(not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ 110

BP824-13.4-120A
(not pictured)

Frequency Range	824-896 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	11 kg / 24.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-13.4-120B
(not pictured)

Frequency Range	824-896 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-18.1-60
(not pictured)

Frequency Range	824-896 MHz
Gain	18.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-15.7-65T6
(not pictured)

Frequency Range	824-896 MHz
Gain	15.7 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	12°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × .42 ft
Weight	16 kg / 35.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-15.7-65
(not pictured)

Frequency Range	824-896 MHz
Gain	15.7 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	12°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × .42 ft
Weight	16 kg / 35.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Isolation	≥ 28 dB

BP824-16.1-65T6
(not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-16.1-65
(not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-18.1-65
(not pictured)

Frequency Range	824-896 MHz
Gain	18.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-18.1-65T6
(not pictured)

Frequency Range	824-896 MHz
Gain	18.1 dB
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	21 kg / 46.30 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-18.1-65K
(not pictured)

Frequency Range	824-896 MHz
Gain	18.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	21 kg / 46.30 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-14.1-90
(not pictured)

Frequency Range	824-896 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	12°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	13 kg / 28.66 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-14.1-90T6
(not pictured)

Frequency Range	824-896 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 66mm / 7.20 ft × 1.0 ft × 0.22 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-14.1-90K2
(not pictured)

Frequency Range	824-896 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-13.1-90
(not pictured)

Frequency Range	824-896 MHz
Gain	13.1 dBi
3D Beamwidth Vertical Plane	15°
3d Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	19.5 kg / 42.99 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ 110 dB

BP824-14.1-90K3
(not pictured)

Frequency Range	824-896 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-16.6-90
(not pictured)

Frequency Range	824-896 MHz
Gain	16.6 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-16.6-90T6
(not pictured)

Frequency Range	824-896 MHz
Gain	16.6 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 152mm × 216mm / 7.20 ft × .50 ft × .71 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-16.6-90K
(not pictured)

Frequency Range	824-896 MHz
Gain	16.6 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 152mm × 216mm / 7.20 ft × .50 ft × .71 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

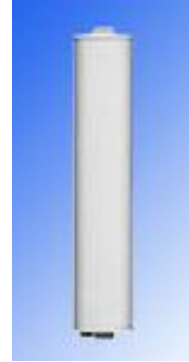
BP800-10-105To
(not pictured)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	4 kg / 8.82 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	105°
Vertical Beamwidth (3dB)	34°
F/B	≥ 20dB
Inermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	660mm × 286mm × 113mm / 1.97 ft × 0.94 ft × 0.37 ft
Radome Material	Fiberglass, UV-resistance
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP800-14-90To
(not pictured)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	7 kg / 15.43 lb
Rated Wind Velocity	216km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	13°
F/B	≥ 23dB
Intermodulation (IM3)	≤ -107dB
Lightning Protection	DC Ground
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-Resistance
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP800-15-105To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	105°
Vertical Beamwidth (3dB)	8.5°
F/B	≥ 20dB
IM3	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1838mm × 286mm × 113mm / 6.03 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance
	ABS

BP800-15-65To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	6.5 kg / 14.33 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B	≥ 25dB
IM3	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS

BP800-13-120To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Weight	9 kg / 19.84 lb
IM3	≤ -107dBm
Horizontal Beamwidth	120°
Vertical Beamwidth	13°
(3dB)	
F/B Ratio	≥ 20dB
Lightning Protection	DC Ground
Dimensions	1230mm × 190mm × 125mm / 4.04 ft × .62 ft × .41 ft
Radome Material	Fiberglass, UV-resistance ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP800-14-120To
(Pictured below)



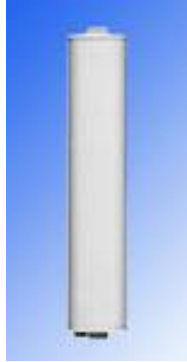
Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	1400mm × 190mm × 125mm / 4.59 ft × .62 ft × .41 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Lightning Protection	DC Ground
Weight	10 kg / 22.05 lb
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	10°
IM3	≤ -107dBm
F/B Ratio	≥ 20dB
Radome Material	Fiberglass, UV-resistance ABS

BP800-13-105To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	6.5 kg / 14.33 lb
Rated Wind Velocity	216km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	105°
Vertical Beamwidth (3dB)	34°
F/B	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1300mm × 286mm × 113mm / 4.27 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV-resistance ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP800-10-120To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16 DIN Female
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	27°
F/B	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1000mm × 190mm × 125mm / 3.28 ft × .62 ft × .41ft
Radome Material	Fiberglass, UV-resistance
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP800-11-90To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	11 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16 DIN Female
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	27°
F/B	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	800mm × 286mm × 113mm / 2.62 ft × 0.94 ft × 0.37 ft
Radome Material	Fiberglass
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP800-15-65T3
(Pictured below)

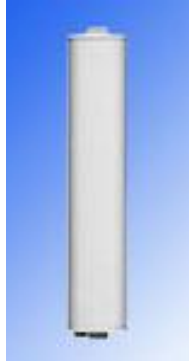


Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	3°
Weight	6.5 kg / 14.33 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
(3dB)	
F/B	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS

BP800-15-65T9
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	9°
Weight	6.5 kg / 14.33 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
(3dB)	
F/B	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS
Pattern	Omnidirectional

BP800-15-90To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	8.4°
F/B	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1838mm × 286mm × 113mm / 6.03 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-Resistance ABS
Pattern	Omnidirectional

BP800-16-105To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	15.5 kg / 34.17 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	105°
Vertical Beamwidth	7°
F/B	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance
Pattern	Omnidirectional

BP800-16-120To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	2570mm × 190mm × 125mm / 8.43 ft × .62 ft × .41 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Lightning Protection	DC Ground
Weight	15 kg / 33.06 lb
F/B Ration	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	6.5°
Radome Material	Fiberglass, UV-resistance ABS

BP800-18-65To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	15 kg / 33.06 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16 DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	6.5°
Beamwidth(3dB)	
F/B	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS

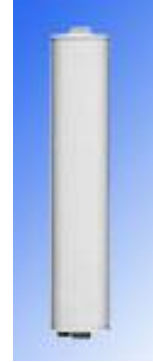
BP800-17-90To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	15 kg / 33.06 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
(3dB)	
F/B	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-Resistance ABS

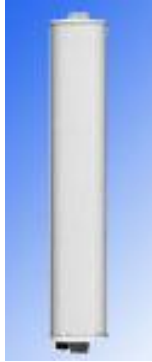
BP800-17-65To

(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	9.6 kg / 21.16 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
(3dB)	
F/B	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	1945mm × 286mm × 113mm / 6.38 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS

BP800-18-65T6
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	6°
Weight	15 kg / 33.06 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	6.5°
(3dB)	
F/B	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS

BP800-18-65T3
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	3°
Weight	15 kg / 33.06 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth	6.5°
(3dB)	
F/B	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Lightning Protection	DC Ground
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV-resistance ABS

BP806-17.5
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	17.5-14dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	300 W
Connector	N Female or Custom
3dB Beamwidth	16°
Vertical Plane	
3dB Beamwidth	40-90°
Horizontal Plane	
F/B	≥ 40 dB
Length	1.3 m / 4.27 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph

BP824-13.4-120K
(Not pictured)

Frequency Range	824-896 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation IM3	≤ -110

BP824-13.4-60B
(Not pictured)

Frequency Range	824-896 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	11 kg / 24.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-13.4-120B
(Not pictured)

Frequency Range	824-896 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°

BP824-14.1-90K4
(Not pictured)

Frequency Range	824-896 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	15°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 40 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	4.6 kg / 10.14 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP824-60-18.1B

(Not pictured)

Frequency Range	824-896 MHz
Gain	18.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	21 kg / 41.30 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-18.1-60C

(Not pictured)

Frequency Range	824-896 MHz
Gain	18.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP824-16.1-60B

(Not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	216 km/h / 135 mph
Intermodulation IM3	≤ -110

BP824-16.1-60

(Not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
3dB Beamwidth	14°
Vertical Plane	
3dB Beamwidth	60°
Horizontal Plane	
F/B Ratio	≥ 30dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	Vertical
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.11 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BP824-16.1-120C
(Not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
3D Beamwidth Vertical Plane	7°
3D Beamwidth Horizontal Plane	120°
F/B Ratio	≥ 27dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Intermodulation (IM3)	≤ -110
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Material	
Back Panel Material	Aluminum Alloy Passive Plane
Radome Material	Fiberglass

BP824-16.1-120B
(Not pictured)

Frequency Range	824-896 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
F/B Ratio	≥ 20dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Material	
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BPD800-10-120To
(Not pictured)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	660mm × 254mm × 103mm / 2.17 ft × 0.83 ft × 0.34 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	6.5 kg / 14.33 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	30°
Isolation	> 28 dB
F/B Ratio	≥ 20dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-12-120To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	1300mm × 254mm × 103mm / 4.27 ft × .83 ft × .34 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	120°
Isolation	> 28 dB
F/B Ratio	≥ 20dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-14-120To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	1940mm × 254mm × 103mm / 6.36 ft × .83 ft × .34 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	14.5 kg / 31.97 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	8.5°
Isolation	> 28dB
F/B Ratio	≥ 20dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-14-90To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	13.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	16°
Isolation	> 28 dB
F/B Ratio	≥ 23dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-14-90T3
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	13.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	3°
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Cross-Polarization	>15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	16°
Isolation	> 28dB
F/B Ratio	≥ 23dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-65To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	1756mm × 286mm × 113mm / 5.76 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	16°
Isolation	> 28 dB
F/B Ratio	≥ 25 dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-65T3
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	3°
Dimensions	1756mm × 286mm × 113mm / 5.76 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.5 lb
Cross-Polarization	> 15dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	16°
Isolation	> 28dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-65T6
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	6°
Dimensions	1756mm × 286mm × 113mm / 5.76 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	16°
Isolation	> 28dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-90To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	1930mm × 286mm × 113mm / 6.33 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	16 kg / 35.25 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	10°
Isolation	> 28 dB
F/B Ratio	≥ 23dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-65T9
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	5°
Dimensions	1756mm × 286mm × 113mm / 5.76 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -1017dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	16°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-90T3
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	3°
Dimensions	1930mm × 286mm × 113mm / 6.33 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	16 kg / 35.25 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth	10°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 23dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-15-90T6

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	6°
Dimensions	1930mm × 286mm × 113mm / 6.33 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	16 kg / 35.25 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	10°
Isolation	> 28 dB
F/B Ratio	≥ 23dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-17-65To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	2296mm × 286mm × 113mm / 7.53 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	5°
Isolation	> 18 dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-16-120To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	2580mm × 254mm × 103mm / 8.46 ft × .83 ft × .34 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	23.5 kg / 51.81 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	6.5°
Isolation	> 28 dB
F/B Ratio	≥ 20dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-17-65T3

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	3°
Dimensions	2296mm × 286mm × 113mm / 7.27 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Cross-Polarization	> 15dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	5°
Isolation	> 28dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-17-65T6

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	6°
Dimensions	2296mm × 286mm × 113mm / 7.53 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	5°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-17-90To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	2580mm × 286mm × 113mm / 8.46 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	24.5 kg / 54.01 lb
Cross-Polarization	> 15dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
(3dB)	
Isolation	> 28dB
F/B Ratio	≥ 23dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-17-65T9

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	5°
Dimensions	2296mm × 286mm × 113mm / 7.53 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	17.5 kg / 38.6 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	5°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-17-90T3

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	3°
Dimensions	2580mm × 254mm × 103mm / 8.46 ft × .83 ft × .34 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	24.5 kg / 54.01 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 23 dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-18-65To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	2590mm × 286mm × 113mm / 8.50 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	18.5 kg / 40.79 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-18-65T6

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	6°
Dimensions	2590mm x 286mm x 113mm / 8.50 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	18.5 kg / 40.78 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
(3dB)	
Isolation	> 28dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-18-65T3

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	3°
Dimensions	2590mm × 286mm × 113mm / 8.50 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	18.5 kg / 40.75 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107 dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
(3dB)	
Isolation	> 28 dB
F/B Ratio	≥ 25 dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-18-65T9

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	5°
Dimensions	2590mm × 286mm × 113mm / 8.50 ft × .94 ft × .37 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	18.5 kg / 40.78 lb
Cross-Polarization	> 15dB
Intermodulation (IM3)	≤ -107dBm
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
(3dB)	
Isolation	> 28dB
F/B Ratio	≥ 25dB
Radome Material	Fiberglass, UV-resistance ABS

BPD800-9-65To
(Pictured below)



Frequency Range	824-896 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	12°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45°
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	13 kg / 28.66 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements	Brass
Material	
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

BPD800-9-65To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Electrical Downtilt	0°
Dimensions	350mm × 286mm × 113mm / 1.14 ft × .94 ft × .37 ft
Connector	2× N Female, 2× 7/16DIN Female
Lightning Protection	DC Ground
Weight	5 kg / 11.02 lb
Cross-Polarization	> 15 dB
Intermodulation (IM3)	≤ -107dBm
Isolation	> 28 dB
F/B Ratio	≥ 25dB
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	70°
Radome Material	Fiberglass, UV-resistance ABS

BPD824-14.1-90K
(not pictured)

Frequency Range	824-896 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	12°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.04 ft × 4.2 ft
Weight	11.5 kg / 25.35 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BPD824-17.6-60
(not pictured)

Frequency Range	824-896 MHz
Gain	17.6 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	7.5°
F/B Ratio	≥ 25dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passive Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Isolation	≥ 28dB

BPD824-17.6-60K
(not pictured)

Frequency Range	824-896 MHz
Gain	15.7dBi
3dB Beamwidth Vertical Plane	7.5/-7.5°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	18.6 kg / 41.00 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB
Isolation	≥ 30dB

BPD824-17.6-65
(not pictured)

Frequency Range	824-896 MHz
Gain	17.6 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7.5°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90mm / φ 1.57 – 3.54 in
Intermodulation (IM3)	≤ -110
Isolation	≥ 28 dB
Cross-polar	≥ 15dB

Discrimination

BPD824-17.6-65T6 (not pictured)

Frequency Range	824-896 MHz
Gain	17.6 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7.5°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM₃)	2264-110
Isolation	≤ 28 dB
Electrical Downtilt	6°
Cross-polar Discrimination	≥ 15dB

BPD824-17-90
(Pictured below)



Frequency Range	824-896 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

BPD824-17-90T6
(Previous picture)

Frequency Range	824-896 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

BPD824-17-90T6

(Previous picture)

Frequency Range	824-896 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

BP870-13.4-120

(not pictured)

Frequency Range	870-960MHz
Bandwidth	90 MHz
Gain	13.4 dBi
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Connector	N Female or 7/16 DIN Female
3dB Beamwidth Vertical Plane	14°
3dB Beamwidth Horizontal Plane	120°
F/B	≥ 27 dB
Intermodulation	≤ 110dB
Lightning Protection	DC Ground
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.11 lb
Back panel material	Aluminum Alloy
Modame Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Rated Wind Velocity	216 km/h / 135 mph

BP870-16.1-120

(not pictured)

Frequency Range	870-960 MHz
Gain	16.1 dBi
3D Beamwidth Vertical Plane	7°
3D Beamwidth Horizontal Plane	120°
F/B Ratio	≥ 27dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Intermodulation	≤ 110
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passive Plane
Radome Material	Fiberglass

BPD870-17.6-60

(not pictured)

Frequency Range	870-890 MHz
Gain	15.7 dBi
3dB Beamwidth Vertical Plane	7.5/-7.5°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	18.6 kg / 41.0 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB
Isolation	≥ 30dB

BP870-16.1-60
(not pictured)

Frequency Range	870-960 MHz
Gain	16.1 dBi
3dB Beamwidth Vertical Plane	14°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	Vertical
Maximum Input Power	500 W
Lightning Protection Connector	All metal parts grounded N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.11 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BPD870-14.1-90
(not pictured)

Frequency Range	870-960 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	12°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.05 ft × .42 ft
Weight	11.5 kg / 25.35 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BP870-10-90
(not pictured)

Frequency Range	870-960 MHz
Gain	10 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	30°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	600mm × 160mm × 60mm / 1.97 ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP870-14.1-90K
(not pictured)

Frequency Range	870-960 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	15°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 40 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	4.6 kg / 10.14 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP870-13.4-120T6
(Pictured below)



Frequency Range	870-960 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Electrical Downtilt	6°
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.1-120A
(Pictured below)



Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation IM3	≤ -110
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.1-120D6

(Previous picture)

Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°

BP870-16.1-120B

(Previous picture)

Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-15-60

(Pictured below)



Frequency Range	870-960 MHz
Gain	15 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	16°
F/B Ratio	≤ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.1-60A
(Pictured below)



Frequency Range	870-960 MHz
Gain	15 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	16°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.48 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.1-60B
(Previous picture)

Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-18.1-60B
(Pictured below)



Frequency Range	870-960 MHz
Gain	18.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 66mm / 7.20 ft × 1.0 ft × 0.22 ft
Weight	21 kg / 46.30 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP870-18.1-60A
(Pictured below)



Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-13.4-120K
(Pictured below)



Frequency Range	870-960 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	11 kg / 24.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP870-16.1-65
(Previous picture)

Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.1-65T6
(Previous picture)

Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	3°

BP870-16.1-65K
(Previous picture)

Frequency Range	870-960 MHz
Gain	16.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-18.1-65
(Pictured below)



Frequency Range	870-960 MHz
Gain	18.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-18.1-65T6
(Previous picture)

Frequency Range	870-960 MHz
Gain	18.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 66mm / 7.20 ft × 1.0 ft × 0.22 ft
Weight	21 kg / 46.30 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°

BP870-18.1-65K
(Pictured below)



Frequency Range	870-960 MHz
Gain	18.1 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	21 kg / 46.30 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°

BPD870-17-90T6
(Pictured below)



Frequency Range	870-960 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB
Electrical Downtilt	6°

BP870-14.1-90K3
(Pictured below)



Frequency Range	870-960 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-14.1-90T6
(Pictured below)



Frequency Range	870-960 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	12°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	13 kg / 28.66 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

BP870-14.1-90K4
(Pictured below)



Frequency Range	870-960 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 - 90mm / φ 1.57 – 3.54 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.6-90
(Pictured below)



Frequency Range	870-960 MHz
Gain	16.6 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.6-90T6



Frequency Range	870-960 MHz
Gain	16.6 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 152mm × 216mm / 7.20 ft × .50 ft × .71 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-16.6-90K
(Previous Picture)

Frequency Range	870-960 MHz
Gain	16.6 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 152mm × 216mm / 7.20 ft × .50 ft × .71 ft
Weight	18 kg / 39.68 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-90-16.6
(Pictured below)



Frequency Range	870-960 MHz
Gain	16.6 dBi
3dB Beamwidth Vertical Plane	7°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 521mm × 130mm / 7.20 ft × 1.72 ft × .43 ft
Weight	18.6 kg / 41.00 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Lightning Protection	DC Ground
Radome Material	Fiberglass
Intermodulation	≤ 110dB

BP890-13.4-120
(Not pictured)

Frequency Range	890-960MHz
Bandwidth	70 MHz
Gain	13.4 dBi
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	500 W
Connector	N Female or 7/16 DIN Female
3dB Beamwidth Vertical Plane	14°
3dB Beamwidth Horizontal Plane	120°
F/B	≥ 27 dB
Intermodulation	≤ 110dB
Lightning Protection	All metal parts grounded
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	6.4 kg / 14.11 lbs
Back panel material	Aluminum Alloy
Radiating element material	6.4 kg / 14.11 lbs
Modame Material	Fiberglass
Mounting Mast	216 km/h / 135 mph
Rated Wind Velocity	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP890-14.1-90K
(Pictured below)



Frequency Range	890-960 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	15°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 40 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	4.6 kg / 10.14 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP890-16.1-120
(Pictured below)



Frequency Range	890-960 MHz
Gain	16.1 dBi
3D Beamwidth Vertical Plane	7°
3D Beamwidth Horizontal Plane	120°
F/B Ratio	≥ 27dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Intermodulation	≤ 110
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passive Plane
Radome Material	Fiberglass
Mounting Mass Material	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP890-18.1-60
(Previous picture)

Frequency Range	890-960 MHz
Gain	18.1 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	8°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	19 kg / 41.89 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Aluminum
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110

BP890-90-16.6
(Previous Picture)

Frequency Range	890-960 MHz
Gain	16.6 dBi
3dB Beamwidth Vertical Plane	7°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2438 × 521 × 130 mm / 8.0 × 1.71 × 0.43 ft
Weight	18.6 kg / 41.0 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Lightning Protection	DC Ground
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110dB

BP900-14-120To
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	14dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	10 kg / 22.05 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	10°
Electrical Downtilt	0°
F/B Ratio	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1400mm × 190mm × 125mm / 4.59 ft × .62 ft × .41 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-15-65T3
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	6.5 kg / 14.33 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	14°
Electrical Downtilt	3°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-15-65T9
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	6.5 kg / 14.33 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	14°
Electrical Downtilt	9°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-15-65T6
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	6.5 kg / 14.33 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	14°
Electrical Downtilt	6°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1300mm × 286mm × 113mm / 4.27 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-15-90To
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	12 kg / 26.46 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	8.4°
Electrical Downtilt	0°
F/B Ratio	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1838mm × 286mm × 113mm / 6.03 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-16-120To
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	16dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	15 kg / 33.06 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	6.5°
Electrical Downtilt	0°
F/B Ratio	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2570mm × 247mm × 102mm / 8.43 ft × .81 ft × .33 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-17-65To
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	9.6 kg / 21.16 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	8°
Electrical Downtilt	0°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1945mm × 286mm × 113mm / 6.38 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-17-90To
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	15 kg / 33.06 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	7°
Electrical Downtilt	0°
F/B Ratio	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-18-65To
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	15 kg / 33.06 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	6.5°
Electrical Downtilt	0°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-18-65T3
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	15 kg / 33.06 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	6.5°
Electrical Downtilt	3°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP900-18-65T6
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	15 kg / 33.06 lb
Connector	N Female, 7/16DIN Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	6.5°
Electrical Downtilt	6°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2593mm × 286mm × 113mm / 8.51 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BP870-13.4-120K2
(Pictured below)



Frequency Range	870-960 MHz
Gain	13.4 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass

BP870-14.1-90T6K3
(Pictured below)



Frequency Range	870-960 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Dawntilt	6°

BP870-14.1-90T6K3
(Previous Picture)

Frequency Range	870-960 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	15°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 152mm × 216mm / 3.20 ft × .50 ft × .71 ft
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Dawntilt	6°

BPD870-13.1-90
(Not pictured)

Frequency Range	870-960 MHz
Gain	13.1 dBi
3D Beamwidth Vertical Plane	15°
3d Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	19.5 kg / 42.99 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BPD870-14.1-90K2
(Pictured below)



Frequency Range	870-960 MHz
Gain	14.1 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	12°
F/B Ratio	≥ 23 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1219mm × 305mm × 127mm / 3.20 ft × 1.0 ft × 0.42 ft
Weight	13 kg / 28.66 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation IM3	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Electrical Downtilt	6°
Isolation	≥ 23 dB
Cross Polar Discrimination	≥ 15 dB

BPD870-15.7-65T6
(Pictured below)



Frequency Range	870-960 MHz
Gain	15.7 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	12°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.05 ft × .42 ft
Weight	16 kg / 35.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB
Electrical Downtilt	3°

BPD870-15.7-65
(Previous Picture)

Frequency Range	870-960 MHz
Gain	15.7 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	12°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.05 ft × .42 ft
Weight	16 kg / 35.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

BPD870-15.7-60K
(Previous Picture)

Frequency Range	870-960 MHz
Gain	15.7 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	12°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.05 ft × .42 ft
Weight	16 kg / 35.25 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar Discrimination	≥ 15 dB

Discrimination

BPD870-17.6-60B (Pictured below)



Frequency Range	870-960 MHz
Gain	17.6 dBi
Horizontal Beamwidth	60°
Vertical Beamwidth	7.5°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28dB
Cross Polar	≥ 15 dB
Discimination	

BPD870-17.6-65 (Previous picture)

Frequency Range	870-960 MHz
Gain	17.6 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7.5°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar	≥ 15 dB
Discrimination	

BPD870-17.6-65T6 (Previous picture)

Frequency Range	870-960 MHz
Gain	17.6 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	6°
F/B Ratio	≥ 25 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar	≥ 15 dB

Discrimination	
Electrical Downtilt	3°

Intermodulation	≤ 110 dB

BPD870-1790
(Previous picture)

Frequency Range	870-960 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	8°
F/B Ratio	≥ 23dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 305mm × 127mm / 7.20 ft × 1.0 ft × 0.42 ft
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation (IM3)	≤ -110
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Isolation	≥ 28 dB
Cross Polar	≥ 15 dB
Discrimination	

BPD890-13.1-90
(Not pictured)

Frequency Range	870-960 MHz
Gain	13.1 dBi
3D Beamwidth Vertical Plane	15°
3d Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	2438mm × 316mm × 66mm / 7.20 ft × 1.04 ft × 0.22 ft
Weight	19.5 kg / 42.9 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BPD890-14.1-90
(Pictured below)



Frequency Range	890-960 MHz
Gain	14.1 dBi
3dB Beamwidth Vertical Plane	12°
3dB Beamwidth Horizontal Plane	90°
F/B Ratio	≥ 30 dB
VSWR	≤ 1.35
Nominal Impedance	50 ohm
3D Beamwidth	± 45
Maximum Input Power	500 W
Connector	N Female or 7/16 DIN Female
Dimension	1538mm × 316mm × 127mm / 5.05 ft × 1.05 ft × .42 ft
Weight	11.5 kg / 25.35 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy (Passivated Plane)
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB

BPD890-17.6-60
(Pictured below)



Frequency Range	890-960 MHz
Gain	15.7 dBi
3dB Beamwidth Vertical Plane	7.5/-7.5°
3dB Beamwidth Horizontal Plane	60°
F/B Ratio	30dB
VSWR	≥ 1.35
Nominal Impedance	50 ohm
3dB Beamwidth	± 45
Maximum Input Power	500 W
Lightning Protection	All metal parts grounded
Connector	N Female or 7/16 DIN Female
Dimension	2446mm × 316mm × 127mm / 8.02 ft × 1.04 ft × .42 ft
Weight	18.6 kg / 41.0 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Aluminum Alloy Passivated Plane
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in
Intermodulation	≤ 110 dB
Isolation	≥ 30dB

BPD900-14-120To
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	14.5 kg / 31.97 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	8.5°
Electrical Downtilt	0°
F/B Ratio	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1940mm × 254mm × 103mm / 6.36 ft × .83 ft × .34 ft
Radome Material	Fiberglass, UV Protected ABS
Isolation	> 28dB
Cross-Polar Discrimination	> 15dB
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BPD900-15-65To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	16°
Electrical Downtilt	0°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1756mm × 286mm × 113mm / 5.76 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Isolation	> 28dB
Cross-Polar Discrimination	> 15dB
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

BPD900-15-65T9
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	12.5 kg / 27.56 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	16°
Electrical Downtilt	3°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1756mm × 286mm × 113mm / 5.76 ft × .94 ft × .37 ft
Radome Material	Fiberglass, UV Protected ABS
Isolation	> 28dB
Cross-Polar Discrimination	> 15dB
Diameter of	φ 50 – 115 mm / φ 1.97 –

Installation Pole 4-53 in

BPD900-15-90To
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	16 kg / 35.25 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth (3dB)	90°
Vertical Beamwidth (3dB)	10°
Electrical Downtilt	0°
F/B Ratio	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1930mm × 286mm × 113mm / 6.33 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15 dB
Isolation	> 28dB

BPD900-15-90T6
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	16 kg / 35.25 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth (3dB)	90°
Vertical Beamwidth (3dB)	10°
Electrical Downtilt	6°
F/B Ratio	≥ 23dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1930 × 286 × 113 mm / 6.33 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-16-120To
(Pictured below)

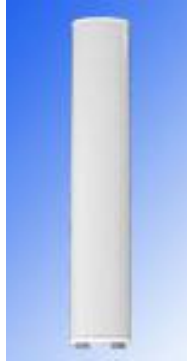


Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	16dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	23.5 kg / 51.81 lb
Connector	2× N Female, 2× 7/16DIN Female
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	6.5°
Electrical Downtilt	0°
F/B Ratio	≥ 20dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2580 × 254 × 103 mm / 8.46 × 0.83 × 0.34 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-16-120T6
(Previous Picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	16dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	23.5 kg / 51.81 lb
Connector	2× N Female, 2× 7/16DIN Female
Horizontal Beamwidth	120°
Vertical Beamwidth (3dB)	6.5°
Electrical Downtilt	6°
F/B Ratio	≥ 0dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2580 × 254 × 103 mm / 8.46 × 0.83 × 0.34 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar	> 15dB
Discrimination	
Isolation	> 28dB

BPD900-17-65To
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	9°
Electrical Downtilt	0°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2296 × 286 × 113 mm / 7.53 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-17-65T3
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	9°
Electrical Downtilt	3°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2296 × 286 × 113 mm / 7.53 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15 dB
Isolation	> 28 dB

BPD900-17-65T6
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	9°
Electrical Downtilt	6°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2580 × 254 × 103 mm / 8.46 × 0.83 × 0.34 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-17-65T9
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	17.5 kg / 38.58 lb
Connector	2× 7/16 DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	9°
Electrical Downtilt	9°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2296 × 286 × 113 mm / 7.53 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-17-90To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	24.5 kg / 54.01 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	90°
Vertical Beamwidth (3dB)	8°
Electrical Downtilt	0°
F/B Ratio	≥ 23dB
IM3	≤ -107dBm
Dimensions	2580 × 254 × 103 mm / 8.46 × 0.83 × 0.34 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15 dB
Isolation	> 28dB

BPD900-18-65To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	18.5 kg / 40.79 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	8°
Electrical Downtilt	0°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2590 × 286 × 113 mm / 7.53 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-18-65T9
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	18.5 kg / 40.78 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	8°
Electrical Downtilt	9°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2590 × 286 × 113 mm / 7.53 × .94 × .37 in
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-18-65T6

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Lightning Protection	DC Ground
Weight	18.5 kg / 40.79 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	8°
Electrical Downtilt	6°
F/B Ratio	≥ 25dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	2590 × 286 × 113 mm / 7.53 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 0.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

BPD900-18-65T3

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135mph
Lightning Protection	DC Ground
Weight	18.5 kg / 40.79 lb
Connector	2× 7/16DIN Female, 2× N Female
Horizontal Beamwidth	65°
Vertical Beamwidth (3dB)	8°
Electrical Downtilt	3°
F/B Ratio	≥ 25dB
IM3	≤ -107dBm
Dimensions	2590mm × 286mm × 113mm / 8.50 × 0.94 × 0.37 ft
Radome Material	Fiberglass, UV Protected ABS
Diameter of Installation Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Cross-Polar Discrimination	> 15dB
Isolation	> 28dB

(Specs not included for the following. Please contact us for more information.)

BP824-17.6-60	824-896	17.6	60 / 7.5
BP824-18.1-60B	824-896	18.1	60 / 8
BP824-17.6-65T6	824-896	17.6	65 / 7.5
BP824-17.6-65	824-896	17.6	65 / 7.5
BPD824-14.1-90	824-896	14.1	90 / 12
BP870-13.1-90	870-960	13.1	90 / 15
BP870-15.7-60K	870-960	15.7	60 / 12
BP870-17.6-60	870-960	17.6	60 / 7.5
BP870-15.7-65T6	870-960	15.7	65 / 12
BP870-15.7-65	870-960	15.7	65 / 12
BP870-17.6-65T6	870-960	17.6	65 / 7.5
BP870-17.6-65	870-960	17.6	65 / 7.5

800-960 MHz Ceiling Mount Antennas

CM8025-3
(Pictured below)



Frequency Range	824-960 MHz & 1710-2500 MHz
Bandwidth	136 MHz / 790 MHz
Gain	3 dBi / 5 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Ground	Direct Ground
Weight	490 g / 1.08 lb
Connector	N Female
Diameter × Depth	φ 186 × 80 mm / φ 7.32 × 3.15 in
Temperature	Working temperature: -40°C~+ 60°C / -40°F~+140°F Limit temperature: -55°C~+70°C / -67°F~+158°F
Radome Material	UV-resistance ABS
Color	White
Pattern	Omnidirectional

CM8025-3K
(Pictured below)



Frequency Range	800-2500 MHz
Bandwidth	1700 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Weight	250 g / 8.82 oz (avoirdupois)
Mounting Method	Fixed with Screw
Pattern	Omnidirectional

CM8250-2G
(Pictured below)



Frequency Range	806-960 MHz & 1400-2500 MHz
Bandwidth	154 MHz / 1100 MHz
Gain	8 dBi
VSWR	< 1.8
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Weight	360 g / 12.7 oz (avoirdupois)
Ground	Direct Ground
Connector	N-Female
Radiator Material	Brass
Radome Material	UV-resistance ABS
Color	White
Diameter x Depth	φ 184 × 105 mm / φ 7.24 × 4.13 in

CM8025-3
(Pictured below)



Frequency Range	824-960 MHz & 1710-2500 MHz
Bandwidth	136 MHz / 790 MHz
Gain	3 dBi / 5 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Ground	Direct Ground
Weight	490 g / 1.08 lb
Connector	N Female
Diameter × Depth	φ 186 × 80 mm / φ 7.32 × 3.15 in
Temperature	Working temperature: -40°C~+ 60°C / -40°F~+140°F Limit temperature: -55°C~+70°C / -67°F~+158°F
Radome Material	UV-resistance ABS
Color	White
Pattern	Omnidirectional

CM870-2P
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Dimension	120 × 50 mm / 4.72 × 1.97 in
Weight	150 g / 5.29 oz (avoirdupois)
Mounting Method	Fixed with Nut

CM870-2
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Dimension	120 × 50 mm / 4.72 × 1.97 in
Weight	120 g / 4.2 oz (avoirdupois)
Mounting Method	Fixed with Nut

CM8020-2F
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	8 dBi
VSWR	824-960 < 1.7 / 1710-2170 < 1.6
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Diameter x Depth	φ 186 × 76 mm / φ 7.32 × 2.99 in
Ground	Direct Ground
Connector	N Female
Cable	White
Length	330 mm / 1.08 ft
Weight	270 g / 9.52 oz (avoirdupois)
Radiator Material	Brass
Radome Material	UV-Resistance ABS
Color	White
Pattern	Omnidirectional

CM80202A
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	2.5 dBi
VSWR	< 1.35
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Radiator Material	Brass
Connector	N Female
Radome Material	UV-resistance ABS
Weight	270 g / 9.5 oz (avoirdupois)
Color	White
Intermodulation (IM3)	< -110dBm

CM8025-3K
(Pictured below)



Frequency Range	800-2500 MHz
Bandwidth	1700 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Weight	250 g / 8.82 oz (avoirdupois)
Mounting Method	Fixed with Screw
Pattern	Omnidirectional

CM892FD
(Pictured below)



Frequency Range	824-960 MHz
Bandwidth	136 MHz
Gain	2 dBi
VSWR	< 2
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Radiator Material	Brass
Diameter x Depth	φ 186 × 61 mm / φ 7.32 × 2.40 in
Radome Material	UV-resistance ABS
Connector	N Female
Ground	Direct Ground
Weight	330 g / 11.64 oz (avoirdupois)
Color	White

CM9022-2K
(Previous picture)

Frequency Range	870-960 MHz & 1710-2170 MHz
Bandwidth	90 MHz / 460 MHz
Gain	2 dBi
VSWR	870-960 < 1.5 / 1710-2170 < 1.7
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -107dBm
Ground	Direct Ground
Weight	0.42 kg / 0.93 lb
Connector	N Female
Diameter x Depth	φ 260 × 96 mm / φ 10.24 × 3.78 in
Radiator Material	Brass
Radome Material	UV-Resistance ABS
Color	White

CM892CFD

(Previous picture)

Frequency Range	824-960 MHz
Bandwidth	136 MHz
Gain	2 dBi
VSWR	< 2
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 124 × 43 mm / φ 4.88 × 1.69 in
Radiator Material	Brass
Connector	N Female
Radome Material	UV-resistance ABS
Weight	320 g / 11.29 oz (avoirdupois)
Color	White

CM-892

(Pictured below)



Frequency Range	824-960 MHz
Bandwidth	136 MHz
Gain	2 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Radiator Material	Brass
Radome Material	UV-resistance ABS
Connector	N Female
Ground	Direct Ground
Weight	380 g / 13.4 oz (avoirdupois)
Color	White

CM892CFD

(Pictured below)



Frequency Range	824-960 MHz
Bandwidth	136 MHz
Gain	2 dBi
VSWR	< 2
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 124 × 43 mm / φ 4.88 × 1.69 in
Radiator Material	Brass
Connector	N Female
Radome Material	UV-resistance ABS
Weight	320 g / 11.29 oz (avoirdupois)
Color	White

CM8202B
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	2 dBi
VSWR	< 1.6
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Length	330 mm / 12.99 in
Connector	N Female
Cable	White
Weight	310 g / 10.9 oz (avoirdupois)
Radiator Material	Brass
Intermodulation (IM3)	< -110dBm
Radome Material	UV-resistance ABS
Color	White

CM8022-3H
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	3 dBi
VSWR	< 1.4
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Ground	Direct Ground
Weight	500 g / 1.10 lb
Connector	N Female
Diameter x Depth	φ 168 × 98 mm / φ 6.61 × 3.85 in
Radiator Material	Brass
Radome Material	UV-resistance ABS
Color	White
Pattern	Omnidirectional

CM8022-2XG
(Previous picture)

Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	2 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Length	400 mm / 1.31 ft
Connector	N Female
Cable	White
Weight	270 g / 9.52 oz (avoirdupois)
Radome Material	UV-resistance ABS
Intermodulation (IM3)	< -107dBm
Color	White
Radiator Material	Brass

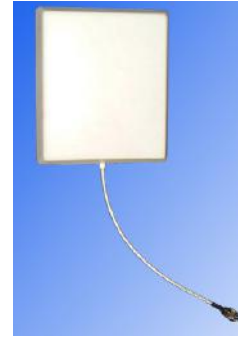
CM82203
(Pictured below)



Frequency Range	870-960 MHz & 1710-2170 MHz
Bandwidth	90 MHz / 460 MHz
Gain	3 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
F/B Ratio	8 dB
Ground	Direct Ground
Weight	490 g / 17.28 oz (avoirdupois)
Connector	N Female
Intermodulation (IM3)	< -110dBm
Diameter x Depth	φ 186 × 80 mm / φ 7.32 × 3.15 in
Radome Material	UV-resistance ABS
Color	White
Working Temperature	-40 to 60°C / -40 to 140°F
Limit Temperature	-55°C ~+60°C / -67°F ~+140°F
Pattern	Omnidirectional

800-960 MHz
Corner Panel Antennas

CP890-7-90
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	154 MHz
Gain	7 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Length	300 mm / 11.81 in
Weight	600 g / 21.16 oz (avoirdupois)
Connector	N-Female
Lightning Protection	DC Ground
Cable	RG58/U
Dimension	210 × 180 × 44 mm / 8.27 × 7.09 × 1.73 in
Radome Material	UV-Resistance ABS
Color	White

CP800-13-90To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16 DIN Female
H-Plane Half Power Beamwidth	90°
E-Plane Half Power Beamwidth	14°
F/B	≥ 30dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1370 × 460 × 170 mm / 4.49 × 1.51 × .56 ft
Radome Material	Fiberglass

CP800-12-120To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16 DIN Female
H-Plane Half Power Beamwidth	120°
E-Plane Half Power Beamwidth	14°
F/B	≥ 30dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1370 × 460 × 170 mm / 4.49 × 1.51 × .56 ft
Radome Material	UV-resistance ABS
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP800-20-45To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	20 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16 DIN Female
H-Plane Half Power Beamwidth	45°
E-Plane Half Power Beamwidth	7°
F/B	≥ 35dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1930 × 460 × 190 mm / 6.33 × 1.51 × .62 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP800-17-90To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	90°
E-Plane Half Power Beamwidth	6.5°
F/B	≥ 30dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1370 × 460 × 170 mm / 4.49 × 1.51 × .56 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP800-17-65To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	9 kg / 19.84 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	65°
E-Plane Half Power Beamwidth	8°
F/B	≥ 30dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1930 × 460 × 170mm / 4.49 × 1.51 × .56 ft
Radome Material	Fiberglass
Support Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP800-17-45To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	45°
E-Plane Half Power Beamwidth	14°
F/B	≥ 35dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1370 × 460 × 190 mm / 4.49 × 1.51 × .62 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP800-15-65To

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	65°
E-Plane Half Power Beamwidth	14°
F/B	≥ 30dB
IM3	≤ -107dBm
Ground	Direct Ground
Dimensions	1370 × 460 × 170 mm / 4.49 × 1.51 × .56 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP900-12-120To

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Electrical Downtilt	0°
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	120°
E-Plane Half Power Beamwidth	14°
F/B Ratio	≥ 30dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1370 × 460 × 170 mm / 4.49 × 1.51 × .56 ft
Weight	8 kg / 17.63 oz
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP900-13-90To

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	8 kg / 17.63 lb
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	90°
E-Plane Half Power Beamwidth	14°
Electrical Downtilt	0°
F/B Ratio	≥ 30dB
IM3	≤ -107dBm
Dimensions	1370 × 460 × 190 mm / 4.49 × 1.51 × 7.48 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP900-15-65To

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	15dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	8 kg / 17.63 lb
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	65°
E-Plane Half Power Beamwidth	14°
Electrical Downtilt	0°
F/B Ratio	≥ 30dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1370 × 460 × 190 mm / 4.49 × 1.51 × 7.48 IN
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP900-17-45To

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	8 kg / 17.63 lb
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	45°
E-Plane Half Power Beamwidth	14°
Electrical Downtilt	0°
F/B Ratio	≥ 35dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1370 × 460 × 190 mm / 4.49 × 1.51 × 7.48 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP900-17-90To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	9 kg / 19.84 lb
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	90°
E-Plane Half Power Beamwidth	6.5°
Electrical Downtilt	0°
F/B Ratio	≥ 30dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1930 × 460 × 190mm / 6.33 × 1.51 × .62 ft
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 2.0 – 4.53 in

CP900-17-65To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	9 kg / 19.89 lb
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	65°
E-Plane Half Power Beamwidth	8°
Electrical Downtilt	0°
F/B Ratio	≥ 30dB
IM3	≤ -107dBm
Dimensions	1370 × 460 × 190 mm / 4.49 × 1.51 × 7.48 IN
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

CP900-20-45To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	20dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	9 kg / 19.84 lb
Connector	N Female, 7/16DIN Female
H-Plane Half Power Beamwidth	45°
E-Plane Half Power Beamwidth	7°
Electrical Downtilt	0°
F/B Ratio	≥ 35dB
Intermodulation (IM3)	≤ -107dBm
Dimensions	1930 × 460 × 190 mm / 6.33 × 1.51 × .62 in
Radome Material	Fiberglass
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

800-960

Fiberglass Omnidirectional Antennas

FO806-8

(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth in Vertical Plane	16°
Length	1.7 m / 5.58 ft
Weight	2 kg / 4.41 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO806-10.5

(Previous picture)

Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	10.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth in Vertical Plane	10.2°
Dimension	60 × 3000 mm / 0.20 × 9.84 in
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO806-12

(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth in Vertical Plane	7°
Dimension	3.4 m / 11.15 ft
Weight	3.5 kg / 7.72 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO810-5.5
(Pictured below)



Frequency Range	810-870 MHz
Bandwidth	60 MHz
Gain	5.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	50 × 220 mm / 1.97 × 8.66 in
Weight	315 g / 11.11 oz (avoirdupois)
Pattern	Omnidirectional

FO800-12To
(Pictured below)



Frequency Range	806-896 MHz
Bandwidth	90 MHz
Gain	11.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	500 W
Electrical Downtilt	0°
Length	≤ 3 m / ≤ 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N-Female
Ground	Direct Ground
Pattern	Omnidirectional

FO806-10
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth in Vertical Plane	10.5°
Length	2.6 m / 8.53 ft
Weight	2.5 kg / 5.51 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO800-11
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	22 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	500 W
Length	≤ 3 m / ≤ 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N-Female
Ground	Direct Ground
Pattern	Omnidirectional

FO800-11T3
(Pictured below)



Frequency Range	824-896MHz
Bandwidth	72 MHz
Gain	11 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	150 W
Electrical Downtilt	3°
Length	≤ 3 m / ≤ 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N-Female
Ground	Direct Ground
Pattern	Omnidirectional

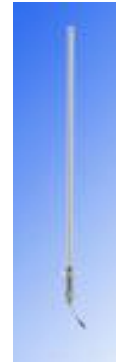
FO800-11To
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	11 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	150 W
Electrical Downtilt	0°
Length	≤ 3 m / ≤ 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N-Female
Ground	Direct Ground
Pattern	Omnidirectional

FO800-11T6
(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	11 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	6°
Length	3.5 m / 11.48 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Ground	Direct Ground
Weight	9 kg / 19.84 lb
E-Plane Half Power Beamwidth	6.5°
IM3	≤ -107dBm
Diameter	φ 52 mm / φ 2.05 in
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in

FO800-6
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	6 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	150 W
Length	≤ 3.0 m / ≤ 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	N-Female
Ground	Direct Ground
Radome Material	Fiberglass
Mounting Hardware – supplied	φ 45 – 50 mm / φ 1.77 – 1.97 in

FO800-9T3

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	3°
Length	2.7 m / 8.86 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Ground	Direct Ground
Weight	8.5 kg / 18.74 lb
E-Plane Half Power Beamwidth	8°
IM3	≤ -107dBm
Diameter	φ 52 mm / φ 2.05 in
Supporting Pole	φ 50 – 115 mm / φ 4.53 – 4.53 in

FO800-9T6

(Previous picture)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	6°
Length	2.7 m / 8.20 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female, 7/16DIN Female
Ground	Direct Ground
Weight	8.5 kg / 18.74 lb
E-Plane Half Power Beamwidth	8°
IM3	≤ -107dBm
Diameter	φ 52 mm / φ 2.05 in
Supporting Pole	φ 50 – 115 mm / φ 2.0 – 4.53 in

FO890-12To

(Pictured below)



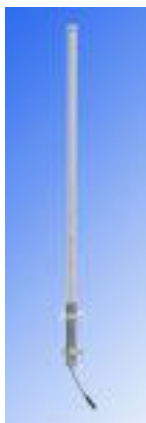
Frequency Range	824-960 MHz
Bandwidth	136 MHz
Gain	11.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	150 W
E-Plane Half Power Beamwidth	6.5°
Diameter x Length	φ 52 × 3000 mm / φ 0.17 × 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN Female or N Female
Ground	Direct Ground
Radiating Material	Fiberglass
Mounting Hardware-Supplied	φ 60 mm / φ 2.36 in
IM3	≤ -107dBm

FO890-6

(Previous picture)

Frequency Range	824-960 MHz
Bandwidth	136 MHz
Gain	6 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female
Ground	Direct Ground
Length	≤ 50 mm / ≤ 1.97 in

FO890-To
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	150 W
Electrical Downtilt	0°
Length	≤ 3 m / 9.84 ft
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/19DIN or N-Female
Ground	Direct Ground

FO810-5.5
(Pictured below)



Frequency Range	810-870 MHz
Bandwidth	60 MHz
Gain	5.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	50 × 220 mm / 1.97 × 8.66 in
Weight	315 g / 11.11 oz (avoirdupois)
Pattern	Omnidirectional

FO900-11T3
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	11 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	300 W
Electrical Downtilt	3°
Ground	Direct Ground
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N Female
Length	≤ 3.3 m / ≤ 10.83 ft

FO900-11T6
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	11dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
IM3	≤ -107dBm
Ground	Direct Ground
Weight	9 kg / 19.84 lb
Connector	N Female, 7/16DIN Female
E-Plane Half Power Beamwidth	6.5°
Electrical Downtilt	6°
Rated Wind Velocity	216 km/h / 135 mph
Diameter	φ 52 mm / φ 2.05 in
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Length	3.3 m / 10.83 ft

FO900-12To
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	11.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
Electrical Downtilt	0°
Ground	Direct Ground
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N Female
Length	≤ 3 m / ≤ 9.84 ft

FO900-12ToS
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Length	≤ 2.2 m / ≤ 7.22 ft
Connector	N Female

FO900-12T3
(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	300 W
Electrical Downtilt	3°
Ground	Direct Ground
Length	≤ 3.3 m / ≤ 10.83 ft
Connector	7/16DIN or N Female
Rated Wind Velocity	216 km/h / 135 mph

FO900-6To

(Previous picture)

Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	6dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	100 W
Rated Wind Diameter	216 km/h / 135 mph
Ground	Direct Ground
Radome Material	Fiberglass
Connector	N Female
Mounting Hardware - Supplied	φ 45 – 50 mm / φ 1.77 – 1.97 in
Length	≤ 1.0 m / ≤ 3.28 ft

FO900-8To

(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	100 W
Ground	Direct Ground
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female
Length	< 1.5 m / < 4.92 ft
Electrical Downtilt	0°

FO900-8ToS

(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	500 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Length	≤ 1.1 m / ≤ 3.61 ft
Connector	N Female

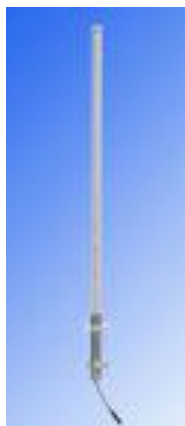
FO900-8T6

(Pictured below)



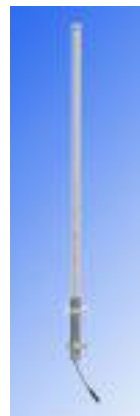
Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	100 W
Electrical Downtilt	6°
Ground	Direct Ground
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female
Length	< 1.5m / < 4.92 ft

FO900-9T3
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
E-Plane Half Power Beamwidth	8°
Ground	Direct Ground
Weight	8 kg / 17.64 lb
Connector	N Female, 7/16DIN Female
Intermodulation (IM3)	≤ -107dBm
Electrical Downtilt	3°
Rated Wind Velocity	216 km/h / 135 mph
Diameter	φ 52 mm / φ 2.05 in
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Length	2.5 m / 8.20 ft

FO900-9To
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	150 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Electrical Downtilt	0°
Connector	7/16DIN or N Female
Length	≤ 3 m / ≤ 9.84 ft
Pattern	Omnidirectional

FO900-9T6
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	500 W
IM3	≤ -107dBm
Ground	Direct Ground
Weight	8 kg / 17.64 lb
Connector	N Female, 7/16DIN
E-Plane Half Power Beamwidth	8°
Electrical Downtilt	6°
Rated Wind Velocity	216 km/h / 135 mph
Diameter	φ 52 mm / φ 2.05 in
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
Length	2.5 m / 8.20 ft
Pattern	Omnidirectional

FO810-5.5
(Pictured below)



Frequency Range	810-870 MHz
Bandwidth	60 MHz
Gain	5.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	50 × 220 mm / 1.97 × 8.66 in
Weight	315 g / 11.11 oz (avoirdupois)
Pattern	Omnidirectional

800-960 MHz Antennas

Parabolic Antennas

PG806-18-12
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	16.5°
3dB Beamwidth Horizontal Plane	16.5°
F/B	≥ 30 dB
Weight	20 kg / 44.09 lb
Diameter	1.2 m / 3.94 ft
Rated Wind Velocity	216 km/h / 135 mph

PG900-20-15
(Pictured below)



Frequency Range	890-960MHz
Bandwidth	70MHz
Gain	20dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	300 W
Rated Wind Velocity	216 km/h / 135 mph
F/B Ratio	27dB
Weight	15 kg / 33.07 lb
Connector	N Female
1/2 Power Beamwidth	14°
First Sidelobe	< -16 dB
Diameter	1500 mm / 4.92 ft
Wind Loading Area - Front	0.86 m ² / 9.26 ft ²
Side	0.21 m ² / 2.26 ft ²
Azimuth	±90°
Elevation	±5°

PG900-21.5-18
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	21.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth	11°
Vertical Plane	
3dB Beamwidth	11°
Horizontal Plane	
F/B	≥ 30 dB
Diameter	1.8 m / 5.91 ft
Weight	30 kg / 66.14 lb

PG824-17-09
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	300 W
Connector	N Female or Custom
3dB Beamwidth	25°
F/B	≥ 30 dB
Diameter	0.9 m / 2.95 ft
Weight	10 kg / 22.05 lb
Rated Wind Velocity	216 km/h / 135 mph

PG806-11.2-8K
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	40 °
3dB Beamwidth H Plane	48 °
F/B	≥ 16 dB
Length	0.9 m / 2.95 ft
Weight	0.9 kg / 1.98 lb
Rated Wind Velocity	216 km/h / 135 mph

PG900-15-09
(Pictured below)



Frequency Range	806-960 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
Beamwidth Vertical Plane	16.5°
Beamwidth Horizontal Plane	16.5°
F/B	≥ 30 dB
Weight	2.5 kg / 5.51 lb
Diameter	0.6 × 0.9 m / 1.97 × 2.95 ft
Rated Wind Velocity	216 km/h / 135 mph

PG900-20-15K
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	20 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	13°
3dB Beamwidth Horizontal Plane	13°
F/B	≥ 30 dB
Diameter	1.5 m / 4.92 ft
Weight	25 kg / 55.12 lb

PG800-18-12
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	18 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
Ground	Direct Ground
Weight	12 kg / 26.46 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N-Female
½ Power Beamwidth	18°
First sidelobe	< -18dB
F/B	25dB
Diameter	1200 mm / 3.94 ft
Wind loading area – Front	0.45 m ² / 4.83 ft ²
- Side	0.16 m ² / 1.72 ft ²
Azimuth	±90°
Elevation	±15°

PG800-20-18
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	20 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
½ Power Beamwidth	11°
Weight	20 kg / 44.09 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N-Female
First Sidelobe	< -18.5 dB
Diameter	1800 mm / 5.91 ft
F/B	35 dB
Wind loading area – Front	1.1 m ² / 11.84 ft ²
- Side	0.33 m ² / 3.55 ft ²
Azimuth	±90°
Elevation	±12°

PG800-20-15
(Pictured below)

Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	20 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
½ Power Beamwidth	16°
Weight	15 kg / 33.07 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N-Female
First Sidelobe	< -18.2 dB
Diameter	1500 mm / 4.92 ft
F/B	30dB
Wind loading area – Front	0.86 m ² / 9.26 ft ²
- Side	0.21 m ² / 2.26 ft ²
Azimuth	±90°
Elevation	±12°

PG800-24-24
(Pictured below)



Frequency Range	824-896 MHz
Bandwidth	72 MHz
Gain	24 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
½ Power Beamwidth	9°
Weight	31 kg / 68.34 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N-Female
First Sidelobe	< -19 dB
Diameter	2400 mm / 7.87 ft
F/B	30 dB
Wind loading area – Front	1.94 m ² / 20.88 ft ²
- Side	0.61 m ² / 6.57 ft ²
Azimuth	±90°
Elevation	±12°

PG890-17-09
(Pictured below)



Frequency Range	890-960 MHz
Bandwidth	70 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	300 W
Connector	N Female or Custom
3D Beamwidth Vertical Plane	25°
F/B	≥ 30 dB
Diameter	0.9 m / 2.95 ft
Weight	10 kg / 22.05 lb
Rated Wind Velocity	216 km/h / 135 mph

PG900-16-12
(Pictured below)



Frequency Range	870-960 MHz
Bandwidth	90 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	10 kg / 22.05 lb
Connector	N Female
½ Power Beamwidth	30°
First Sidelobe	< -18dB
F/B Ratio	25dB
Diameter	1200 mm × 440 mm / 3.94 ft × 1.44 ft
Wind Loading Area – Front	0.23 m ² / 2.48 ft ² 0.076 m ² / 0.82 ft ²
- Side	
Azimuth	±90°
Elevation	±15°

PG900-18-12
(Pictured below)



Frequency Range	890-960 MHz
Bandwidth	70 MHz
Gain	18dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
Rated Wind Velocity	216 km/h / 135 mph
Ground	Direct Ground
Weight	12 kg / 26.46 lb
Connector	N Female
½ Power Beamwidth	18°
First Sidelobe	< -16dB
Azimuth	±90°
Elevation	±15°
F/B Ratio	25dB
Wind Loading Area – Front	0.45 m ² / 4.84 ft ² 0.16 m ² / 1.72 ft ²
- Side	
Diameter	1200 mm / 3.94 ft

PG900-24-24
(Pictured below)



Frequency Range	890-960 MHz
Bandwidth	70 MHz
Gain	24.7 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	200 W
Rated Wind Velocity	216 km/h / 135 mph
½ Power Beamwidth	9.7°
Weight	31 kg / 68.34 lb
Connector	N Female
First Sidelobe	< -16 dB
Diameter	2400 mm / 7.87 ft
F/B Ratio	30dB
Wind Loading Area - Front	1.94 m ² / 20.88 ft ²
- Side	0.61 m ² / 6.57 ft ²
Azimuth	±90°
Elevation	±12°

800-960 MHz
Yagi Antennas

YA806-9-5
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	48°
3dB Beamwidth Horizontal Plane	54°
F/B	≥ 14 dB
Length	0.5 m / 1.64 ft
Weight	0.7 kg / 1.54 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-11.2-8
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	154 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	40°
3dB Beamwidth Horizontal Plane	48°
F/B	≥ 16 dB
Length	0.9 m / 2.95 ft
Weight	0.9 kg / 1.98 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-11.6-10
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	36°
3dB Beamwidth H Plane	40°
F/B	≥ 18 dB
Length	1.1 m / 3.61 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-12-12
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	154 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	32°
3dB Beamwidth Horizontal Plane	36°
F/B	≥ 18 dB
Length	1.25 m / 4.10 ft
Weight	1.1 kg / 2.43 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-13-15
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	13dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	30°
3dB Beamwidth Horizontal Plane	30°
F/B	≥ 18 dB
Length	1.45 m / 4.76 ft
Weight	1.25 kg / 2.76 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-12-12-1
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	154 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	36°
F/B	≥ 18 dB
Length	1.25 m / 4.10 ft
Weight	1.1 kg / 2.43 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-12-12
(Pictured below)



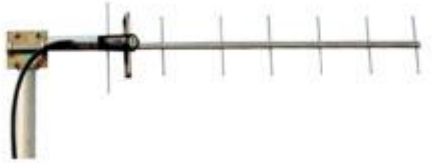
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Bandwidth	70 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	32°
3dB Beamwidth Horizontal Plane	36°
F/B	≥ 18 dB
Length	1.25 m / 4.10 ft
Weight	1.1 kg / 2.43 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-11.6
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	154 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	36°
3dB Beamwidth H Plane	25°
F/B	≥ 30 dB
Length	1.1 m / 3.61 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-11.2-8K
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	70 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	40°
3dB Beamwidth Horizontal Plane	48°
F/B	≥ 16 dB
Length	0.9 m / 2.95 ft
Weight	0.9 kg / 1.98 lb
Rated Wind Velocity	216 km/h / 135 mph

YA806-13-15K
(Pictured below)



Frequency Range	806-960 MHz
Bandwidth	154 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	30°
3dB Beamwidth H Plane	30°
F/B	≥ 18 dB
Length	1.45 m / 4.76 ft
Weight	1.25 kg / 2.76 lb
Rated Wind Velocity	216 km/h / 135 mph

1000-1300 MHz

Fiberglass Omnidirectional Antennas

FO1200-5
(Pictured below)



Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Vertical Plane	28°
Length	0.5 m / 1.64 ft
Weight	0.3 kg / 0.66 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1200-8
(Pictured below)



Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth	16°
Vertical Plane	
Length	1.7 m / 5.58 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

FO1200-10
(Previous Picture)

Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth	10.5°
Vertical Plane	
Length	2.4 m / 7.87 ft
Weight	2 kg / 4.41 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1300-6.5
(Previous Picture)

Frequency Range	1200-1550 MHz
Bandwidth	80 MHz
Gain	6.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth	16°
Vertical Plane	
Length	1.7 m / 5.58 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

1000-1300 MHz

Parabolic Antennas

PG1200-20.5-12
(Pictured below)



Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	20.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	12.5°
3dB Beamwidth H Plane	12.5°
F/B	≥ 30 dB
Diameter	1.2 m / 3.94 ft
Weight	20.5 kg / 45.19 lb
Rated Wind Velocity	216 km/h / 135 mph

PG1200-22.5-15
(Previous picture)

Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	22.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	10°
3dB Beamwidth H Plane	10°
F/B	≥ 30 dB
Dimension	1.5 m / 4.92 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph

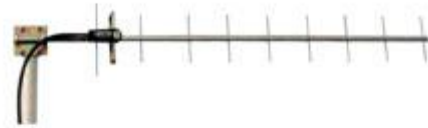
PG1200-24-18
(Previous picture)

Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	24 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	8.5°
3dB Beamwidth H Plane	8.5°
F/B	≥ 30 dB
Diameter	1.8 m / 5.91 ft
Weight	30 kg / 66.14 lb
Rated Wind Velocity	216 km/h / 135 mph

1000-1300 MHz

Yagi Antennas

YA1200-9.5-6
(Pictured below)



Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	9.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	45°
3dB Beamwidth H Plane	50°
F/B	≥ 16 dB
Length	0.7 m / 2.30 ft
Weight	0.7 kg / 1.54 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1200-11.2-8
(Previous picture)

Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	48°
F/B	≥ 16 dB
Length	0.8 m / 2.62 ft
Weight	0.75 kg / 1.65 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1200-11.6-10
(Previous picture)

Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	36°
3dB Beamwidth H Plane	40°
F/B	≥ 18 dB
Length	0.9 m / 2.95 ft
Weight	0.8 kg / 1.76 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1200-12-12
(Previous picture)

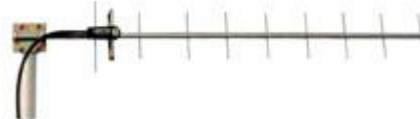
Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	36°
F/B	≥ 18 dB
Length	1.05 m / 3.44 ft
Weight	0.9 kg / 1.98 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1000-12
(Pictured below)



Frequency Range	1000-1300 MHz
Bandwidth	300 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth	45°
Length	0.35 m / 1.15 ft
Weight	1.0 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1200-13-15
(Pictured below)



Frequency Range	1120-1200 MHz
Bandwidth	80 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	30°
F/B	≥ 18 dB
Length	1.2 m / 3.94 ft
Weight	1.0 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1000-14
(Pictured below)



Frequency Range	1000-1300 MHz
Bandwidth	300 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth	35°
Length	0.6 m / 1.97 ft
Weight	1.5 kg / 3.31 lb
Rated Wind Velocity	216 km/h / 135 mph

GPS Antennas

GPS
(Pictured below)



Frequency Range	1570-1580 MHz
Bandwidth	10 MHz
Gain	29 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Connector	SMA male or TNC male
Length	5 × 5 × 1 cm / 1.97 × 1.97 × 0.39 in
Weight	0.1 kg / 0.22 lb

1710-1900 MHz Base Station Sector Antennas

BP1710-15.5-60
(Pictured below)



Frequency Range	1710-1900 MHz
Bandwidth	170 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth Horizontal Plane	60°
3dB Beamwidth Vertical Plane	16°
F/B	≤ 25 dB
Dimension	600 × 150 × 80 mm / 1.97 × 0.49 × 0.26 ft
Weight	8 kg / 17.63 lb

BPD1710-15-65
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	15 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Isolation	≥ 28 dB
Cross-polar Discrimination	≥ 15 dB
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700mm × 160mm × 60mm / 2.30ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP1710-16-65
(Previous picture)

Frequency Range	1710-1880 MHz
Gain	16 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	200 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700 × 160 × 60 mm / 2.30 × 0.52 × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Back Panel Material	Brass
Radiating Elements Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 – 3.54 in

BPD1710-17-65
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	17 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7°
F/B Ratio	≥ 25 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Isolation	≥ 28 dB
Cross-polar Discrimination	≥ 15 dB
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP1710-18-65
(Previous picture)

Frequency Range	1710-1880 MHz
Gain	18 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7°
F/B Ratio	≥ 25 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	200 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1230 × 190 × 80 mm / 4.04 × 0.62 × 0.26 ft
Weight	8 kg / 17.64 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

BPD1710-14-90
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	14 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	14°
F/B Ratio	≥ 23 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Isolation	≥ 28 dB
Cross-polar Discrimination	≥ 15 dB
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700mm × 160mm × 60mm / 2.30ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP1710-14-90
(Pictured below)



Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
3dB Beamwidth E Plane	90°
3dB Beamwidth H Plane	16°
F/B	≥ 25 dB
Dimension	600 × 100 × 80 mm / 1.97 × 0.33 × 0.26 ft
Weight	6 kg / 13.23 lb

BP1710-14.5-90
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	14.5 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	14°
F/B Ratio	≥ 23 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	200 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700 × 160 × 60 mm / 2.30 × 0.52 × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

BP1710-17-90
(Pictured below)



Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	90°
F/B	≥ 25 dB
Dimension	1220 × 180 × 80 mm / 4.0 × 0.59 × 0.26 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph

BP1710-12-120
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	12 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≥ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700 × 160 × 60 mm / 2.30 × 0.52 × 0.20 ft
Weight	6 kg / 13.2 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / 1.57 - 3.54 in

BP1710-12.5-120
(Pictured below)



Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	12.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	120°
3dB Beamwidth Vertical Plane	16°
F/B	≥ 25 dB
Dimension	600 × 100 × 80 mm / 1.97 × 0.33 × 0.26 ft
Weight	6 kg / 13.23 lb

BP1710-15-120
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	15 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
F/B Ratio	≥ 20 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230 × 190 × 80 mm / 4.04 × 0.62 × 0.26 ft
Weight	8 kg / 17.64 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 90 mm / φ 1.57 – 3.54 in

BP1710-16-120
(Pictured below)



Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	120°
F/B	≥ 25 dB
Dimension	1220 × 180 × 80 mm / 4.00 × 0.59 × 0.26 ft
Weight	6 kg / 13.23 lb

BPD1850-15-65
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	15 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700mm × 160mm × 60mm / 2.30ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP1850-16-65
(Previous picture)

Frequency Range	1850-1990 MHz
Gain	16 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	14°
F/B Ratio	≥ 25 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700 × 160 × 60 mm / 2.30 × 0.52 × 0.26 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 – 3.54 in

BPD1850-17-65
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	17 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7°
F/B Ratio	≥ 25 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast	φ 40 – 89 mm / φ 1.57 –
Diameter	3.50 in

BP1850-19-65
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	19 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7°
F/B Ratio	≥ dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≥ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast	φ 40 – 90 mm / φ 1.57 –
Diameter	3.54 in

BPD1850-14-90
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	14 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	14°
F/B Ratio	≥ 23 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700mm × 160mm × 60mm / 2.30ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BPD1850-14-90
(Previous picture)

Frequency Range	1850-1990 MHz
Gain	14 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	14°
F/B Ratio	≥ 23 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700mm × 160mm × 60mm / 2.30ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP1850-14-90
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	14 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	14°
F/B Ratio	≥ 23 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700 × 160 × 60 mm / 2.30 × 0.52 × 0.20 ft
Weight	6 kg / 13.20 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

BPD1850-16-90
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	16 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 23 dB
Intermodulation (IM3)	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 89 mm / φ 1.57 - 3.50 in

BP1850-17-90
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 23 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

BP1850-12-120
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	12 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≥ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700 × 160 × 60 mm / 2.30 × 0.52 × 0.20 ft
Weight	6 kg / 13.2 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

BP1850-15-120
(Pictured below)



Frequency Range	1850-1990 MHz
Gain	15 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	14°
F/B Ratio	≥ 20 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230 × 190 × 80 mm / 4.04 × 0.62 × 0.26 ft
Weight	8 kg / 17.64 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

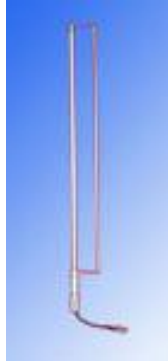
BPD1710-18-65
(Previous picture)

Frequency Range	1710-1880 MHz
Gain	18 dBi
Horizontal Beamwidth	65°
Vertical Beamwidth	7°
F/B Ratio	≥ 25 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	± 45
Maximum Input Power	200 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 89 mm / φ 1.57 - 3.50 in

BP1710-17-90K
(Previous picture)

Frequency Range	1710-1880 MHz
Gain	17 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	7°
F/B Ratio	≥ 23 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	200 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230 × 190 × 80 mm / 4.04 × 0.62 × 0.26 ft
Weight	8 kg / 17.64 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 - 90 mm / φ 1.57 - 3.54 in

BP1800-13-78T0
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	13dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Electrical Downtilt	0°
Rated Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Polarization	Vertical
Beam Width (1/2 Power Points)	E-Plane: 10° ; H-Plane: 78°
Length	1055 mm / 3.46 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / - 40 to 140°F

BP1800-13-78T5
(Previous picture)

Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	13dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Electrical Downtilt	5°
Rated Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Polarization	Vertical
Beam Width (1/2 Power Points)	E-Plane: 10° ; H-Plane: 78°
Length	1055 mm / 3.46 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / - 40 to 140°F

BP1900-13-T10
(Previous picture)

Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	13 dBi
VSWR	≤ 1.4
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (1/2 Power Points)	E-Plane: 9.5° ; H-Plane: 78°
Electrical Downtilt	10°
Connector	TNC Female or N Female
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Working Temperature and Humidity	- 40 to +60° C ; 20-95%

BP1900-9-180T20
(Previous picture)

Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	9±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Electrical Downtilt	20±5°
Rated Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Polarization	Vertical
Beam Width (1/2 Power Points)	E-Plane: 22° ; H-Plane: 180°
Length	860 mm / 2.82 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / - 40 to 140°F
Weight	0.41 kg / 0.90 lb

BPD1710-14.5-90
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	14.5 dBi
Horizontal Beamwidth	90°
Vertical Beamwidth	14°
F/B Ratio	≥ 23 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	200 W
Lightning Protection	DC Ground
Connector Place	Bottom
Connector	N Female or 7/16 DIN Female
Dimension	700mm × 160mm × 60mm / 2.30ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BPD1710-15-120
(Pictured below)



Frequency Range	1710-1880 MHz
Gain	15 dBi
Horizontal Beamwidth	120°
Vertical Beamwidth	7°
F/B Ratio	≥ 20 dB
Intermodulation IM3	≤ -110 dBm
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Input Power	500 W
Lightning Protection	DC Ground
Connector Place	Center
Connector	N Female or 7/16 DIN Female
Dimension	1230mm × 190mm × 80mm / 4.04 ft × 0.62 ft × 0.26 ft
Weight	8 kg / 17.63 lb
Rated Wind Velocity	216 km/h / 135 mph
Radiating Elements Material	Brass
Back Panel Material	Passivated Aluminum
Radome Material	Fiberglass
Mounting Mast Diameter	φ 40 – 89 mm / φ 1.57 – 3.50 in

BP1710-17-90B	1710-1880	17	90 / 7

1710-1900 MHz

Fiberglass Omnidirectional Antennas

FO1710-8

(Pictured below)



Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	16°
Length	1.1 m / 3.61ft
Weight	0.5 kg / 1.10 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1710-10

(Previous picture)

Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Vertical Beamwidth	10.5°
Horizontal Beamwidth	360°
Length	1.4 m / 4.59 ft
Weight	1 kg / 2.2 lb
Rated Wind Velocity	216 km/h / 135 mph

FO1890-7.2

(Pictured below)



Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	7.2 dBi
Vertical Beamwidth	20 °
Horizontal Beamwidth	360°
Electrical Downtilt	0+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 575 mm / 0.08 × 1.88 ft
Weight	450 g / 15.87 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

Pattern

Omnidirectional

FO1890-7.2D5
(Previous picture)



Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	7.2 dBi
Vertical Beamwidth	20°
Horizontal Beamwidth	360°
Electrical Downtilt	5+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 575 mm / 0.08 × 1.89 ft
Weight	450 g / 15.87 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1890-7.2D10
(Previous picture)

Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	7.2 dBi
Vertical Beamwidth	20°
Horizontal Beamwidth	360°
Electrical Downtilt	10+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 575 mm / 0.08 × 1.89 ft
Weight	450 g / 15.87 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

Pattern

Omnidirectional

FO1890-7.2D20

(Previous picture)

Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	7.2 dBi
Vertical Beamwidth	20°
Horizontal Beamwidth	360°
Electrical Downtilt	20+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 575 mm / 0.08 × 1.89 ft
Weight	450 g / 15.87 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1890-9D5

(Pictured below)



Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	9 dBi
Vertical Beamwidth	12°
Horizontal Beamwidth	360°
Electrical Downtilt	5+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 880 mm / 0.08 × 2.98 ft
Weight	850 g / 29.98 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

FO1890-9D10
(Previous picture)

Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	9 dBi
Vertical Beamwidth	12°
Horizontal Beamwidth	360°
Electrical Downtilt	10+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 880 mm / 0.08 × 2.89 ft
Weight	850 g / 29.98 oz
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1890-9D20
(Previous picture)

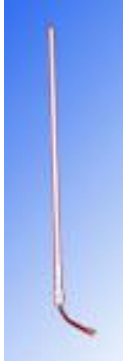
Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	9 dBi
Vertical Beamwidth	12°
Horizontal Beamwidth	360°
Electrical Downtilt	20+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 880 mm / 0.08 × 2.89 ft
Weight	850 g / 29.98 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1710-8C
(Pictured below)



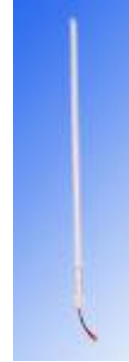
Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	14°
Length	0.67 m / 2.2 ft
Weight	0.4 kg / 0.88 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO1900-10To
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	10±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Electrical Downtilt	0-2°
Rated Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Polarization	Vertical
Beam Width (1/2 Power Points)	8.2°
Length	1280 mm / 4.20 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140° F
Weight	0.56 kg / 1.23 lb
Pattern	Omnidirectional

FO1900-10T5
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	10±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Electrical Downtilt	5±2°
Rated Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Polarization	Vertical
Beam Width (1/2 Power Points)	8.2°
Length	1465 mm / 4.81 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Weight	0.6 kg / 1.32 lb
Pattern	Omnidirectional

FO1900-5.5To
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	5.5 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	32°
Weight	0.09 kg / .20 lb
Connector	N Male
Electrical Downtilt	0°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	368 mm / 1.21 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

FO1900-4.5To
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	4.5 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	38°
Weight	0.08 kg / 0.18 lb
Connector	N Male
Electrical Downtilt	0°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	275 mm / 10.83 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F

FO1900-7.2ToB
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	7.2±0.5dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	20°
Weight	0.38 kg / 0.84 lb
Connector	N Male
Electrical Downtilt	0-2°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	835 mm / 2.74 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

FO1900-8.5T20B
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	8.5±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	14°
Weight	0.45 kg / 0.99 lb
Connector	N Male
Electrical Downtilt	20±5°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	1130 mm / 3.71 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

FO1900-7T20
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	7±0.5dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	21°
Weight	0.45 kg / 0.99 lb
Connector	N Male
Electrical Downtilt	20±5°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	885 mm / 2.90 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

FO1900-9T10
(Previous picture)

Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	9±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	9.5°
Weight	0.5 kg / 1.10 lb
Connector	N Male
Electrical Downtilt	10±3°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	1225 mm / 4.02 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F

Pattern Omnidirectional

FO1900-9T15
(Previous picture)

Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	9±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	9.5°
Connector	TNC
Electrical Downtilt	15±2°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

FO1900-9T5
(Previous picture)

Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	9±1dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Beam Width (½ Power Points)	9.5°
Weight	0.53 kg / 1.17 lb
Connector	N Male
Electrical Downtilt	5±2°
Lightning Protection	Direct Ground
Element Housing	Fiberglass
Material	
Length	1245 mm / 4.08 ft
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

FO1890-9
(Pictured below)



Frequency Range	1890-1920 MHz
Bandwidth	30 MHz
Gain	9 dBi
Vertical Beamwidth	12°
Horizontal Beamwidth	360°
Electrical Downtilt	0+/-1°
VSWR	≤ 1.4
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	200 W
Connector	TNC or N Type
Dimension	25 × 880 mm / 0.08 × 2.89 ft
Weight	850 g / 29.98 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

1710-1900 MHz Parabolic Antennas

PG1710-24-12
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	24 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	8.5°
F/B	≥ 30 dB
Diameter	1.2 m / 3.94 ft
Weight	20 kg / 44.09 lb

PG1710-26-15
(Previous picture)

Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	26 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	6.5°
F/B	≥ 30 dB
Diameter	1.5 m / 4.92 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph

PG1710-27.5-18
(Previous picture)

Frequency Range	1710-1990 MHz
Bandwidth	170 MHz
Gain	27.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	5.5°
F/B	≥ 30 dB
Diameter	1.8 m / 5.91 ft
Weight	30 kg / 66.14 lb
Rated Wind Velocity	216 km/h / 135 mph

PG1800-23-08B
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	22.5 dBi
VSWR	< 1.4
Nominal Impedance	50Ω
Polarization	Vertical or Horizontal
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
½ power Beamwidth	10.5°
Weight	4.1 kg / 9.04 lb
Connector	N Female
Diameter	800 mm / 2.62 ft
Wind Loading Area -	
Front	0.25 m ² / 2.69 ft ²
Side	0.077 m ² / 0.83 ft ²
F/B Ratio	> 35dB
Azimuth	±90°
Elevation	±15°

PG1800-25-12
(Previous picture)

Frequency Range	1710-1850 MHz
Bandwidth	140 MHz
Gain	25 dBi
VSWR	≤ 1.4
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
½ power Beamwidth	8°
Weight	12 kg / 26.46 lb
Connector	N Female
Diameter	1200 mm / 3.94 ft
Wind Loading Area -	
Front	0.19 m ² / 2.05 ft ²
Side	0.48 m ² / 5.17 ft ²
F/B Ratio	> 35dB
Azimuth	±90°
Elevation	±15°

PG1800-26-15
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	26 dBi
VSWR	≤ 1.4
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
½ power Beamwidth	8°
Weight	14 kg / 30.86 lb
Connector	N Female
Diameter	1500 mm / 4.92 ft
Wind Loading Area -	
Front	0.92 m ² / 9.90 ft ²
Side	0.31 m ² / 3.34 ft ²
F/B Ratio	> 30dB
Azimuth	±90°
Elevation	±12°
First Sidelobe	<-18dB
Ground	Direct Ground

PG1800-28-18
(Previous picture)

Frequency Range	1710-1850 MHz
Bandwidth	140 MHz
Gain	28 dBi
VSWR	≤ 1.4
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
½ power Beamwidth	4.8°
Weight	21 kg / 46.30 lb
Connector	N Female
First Sidelobe	< -20dB
Diameter	1800 mm / 5.91 ft
Wind Loading Area -	
Front	1.41 m ² / 15.18 ft ²
Side	0.46 m ² / 4.95 ft ²
F/B Ratio	37dB
Azimuth	±90°
Elevation	±12°
Structure	Integration

1710-1900 MHz

Yagi Antennas

YA1710-8.4-4
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	8.4 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	60°
3dB Beamwidth H Plane	65°
F/B	≥ 14 dB
Length	0.40 m / 1.31 ft
Weight	0.5 kg / 1.10 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-9-5
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	48°
3dB Beamwidth H Plane	54°
F/B	≥ 14 dB
Length	42 cm / 1.38 ft
Weight	0.53 kg / 1.17 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-9.5-6
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	9.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	45°
3dB Beamwidth H Plane	50°
F/B	≥ 16 dB
Length	0.55 m / 1.80 ft
Weight	0.75 kg / 1.65 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-10.5-7
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	10.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	42°
3dB Beamwidth H Plane	46°
F/B	≥ 16 dB
Length	43 cm / 1.41 ft
Weight	0.54 kg / 1.19 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-11.2-8
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	48°
F/B	≥ 16 dB
Length	55 cm / 1.80 ft
Weight	0.68 kg / 1.50 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-11.6-10
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	36°
3dB Beamwidth H Plane	40°
F/B	≥ 18 dB
Length	80 cm / 2.62 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-12-12
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	36°
F/B	≥ 18 dB
Length	0.85 m / 2.79 ft
Weight	1.1 kg / 2.43 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-13-15
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	30°
F/B	≥ 18 dB
Length	0.95 m / 3.12 ft
Weight	1.25 kg / 2.76 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-11.2-8K
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	11.2 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	48°
F/B	≥ 16 dB
Length	0.75 m / 2.46 ft
Weight	0.9 kg / 1.98 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-11.6-10K
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	36°
3dB Beamwidth H Plane	40°
F/B	≥ 18 dB
Length	0.80 m / 2.62 ft
Weight	1 kg / 2.20 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-12-12K
(Pictured below)



Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	36°
F/B	≥ 18 dB
Length	85 cm / 2.79 ft
Weight	1.1 kg / 2.43 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-13-15K
(Previous picture)

Frequency Range	1710-1880 MHz
Bandwidth	170 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	30°
F/B	≥ 18 dB
Length	95 cm / 3.12 ft
Weight	1.25 kg / 2.76 lb
Rated Wind Velocity	216 km/h / 135 mph

YA1710-11.6-10B	1710-1880	11.6

1710-1900 MHz Ceiling Mount Antennas

CM1900-2CFD (Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	2dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Dimension	φ 124 × 43 mm / φ 4.88 × 1.69 in
Rated Power	50 W
Radome Material	UV-Resistance ABS
Connector	N Female
Lightning Protection	DC Ground
Radiation Material	Brass
Polarization	Vertical
Color	White
Weight	320 g / 11.29 oz (avoirdupois)

CM1900-4 (Previous picture)

Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	4dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Dimension	φ 184 × 105 mm / φ 7.24 × 0.34 in
Rated Power	50 W
Radome Material	UV-Resistance ABS
Connector	N Female
Lightning Protection	DC Ground
Radiation Material	Brass
Polarization	Vertical
Color	White
Weight	360 g / 12.70 oz (avoirdupois)
Horizontal Beamwidth (3dB)	360°
Vertical Beamwidth (3dB)	42°
Intermodulation (IM3)	< -107dBm
Pattern	Omnidirectional

CM1900-8 (Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	8 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Vertical Beamwidth (3dB)	180°
Horizontal Beamwidth (3dB)	25°
Weight	490 g / 17.28 oz (avoirdupois)
Connector	N Female
Lightning Protection	Direct Ground
Dimension	φ 186 × 80 mm / φ 7.32 × 3.15 in
Element Housing Material	UV-Resistance ABS
Color	White
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F

CM820-2
(Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	2dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Dimension	φ 186 × 62 mm / φ 7.32 × 2.44 in
Rated Power	50 W
Radome Material	UV-Protected ABS
Connector	N Female
Lightning Protection	DC Ground
Radiation Material	Brass
Polarization	Vertical
Color	White
Weight	310 g / 10.93 oz (avoirdupois)
Intermodulation	< -110dBm
Pattern	Omnidirectional

CM822-3H
(Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	3 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
IM3	< -110dBm
Lightning Protection	DC Ground
Weight	500g / 17.64 oz (avoirdupois)
Connector	N Female
Radiation Material	Brass
Diameter	φ 168 × 98 mm / φ 6.61 × 3.86 in
Radome Material	UV Protected ABS
Color	White
Pattern	Omnidirectional

CM8025-3K
(Pictured below)



Frequency Range	800-2500 MHz
Bandwidth	1700 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Weight	250 g / 8.82 oz (avoirdupois)
Mounting Method	Fixed with Screw
Pattern	Omnidirectional

CM8020-2F
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	8 dBi
VSWR	824-960 < 1.7 / 1710-2170 < 1.6
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Diameter x Depth	φ 186 × 76 mm / φ 7.32 × 2.99 in
Ground	Direct Ground
Connector	N Female
Cable	White
Length	330 mm / 1.08 ft
Weight	270 g / 9.52 oz (avoirdupois)
Radiator Material	Brass
Radome Material	UV-Resistance ABS
Color	White
Pattern	Omnidirectional

CM80202A
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	2.5 dBi
VSWR	< 1.35
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Radiator Material	Brass
Connector	N Female
Radome Material	UV-resistance ABS
Weight	270 g / 9.5 oz (avoirdupois)
Color	White
Intermodulation (IM3)	< -110dBm

CM9022-2K
(Pictured below)



Frequency Range	870-960 MHz & 1710-2170 MHz
Bandwidth	90 MHz / 460 MHz
Gain	2 dBi
VSWR	870-960 < 1.5 / 1710-2170 < 1.7
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -107dBm
Ground	Direct Ground
Weight	0.42 kg / 0.93 lb
Connector	N Female
Diameter x Depth	φ 260 × 96 mm / φ 10.24 × 3.78 in
Radiator Material	Brass
Radome Material	UV-Resistance ABS
Color	White

CM82203
(Pictured below)



Frequency Range	870-960 MHz & 1710-2170 MHz
Bandwidth	90 MHz / 460 MHz
Gain	3 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
F/B Ratio	8 dB
Ground	Direct Ground
Weight	490 g / 17.28 oz (avoirdupois)
Connector	N Female
Intermodulation (IM3)	< -110dBm
Diameter x Depth	φ 186 × 80 mm / φ 7.32 × 3.15 in
Radome Material	UV-resistance ABS
Color	White
Working Temperature	-40 to 60°C / -40 to 140°F
Limit Temperature	-55°C ~+60°C / -67°F ~+140°F
Pattern	Omnidirectional

CM8202B
(Previous picture)

Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	2 dBi
VSWR	< 1.6
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Length	330 mm / 12.99 in
Connector	N Female
Cable	White
Weight	310 g / 10.9 oz (avoirdupois)
Radiator Material	Brass
Intermodulation (IM3)	< -110dBm
Radome Material	UV-resistance ABS
Color	White

CM8025-3
(Pictured below)



Frequency Range	824-960 MHz & 1710-2500 MHz
Bandwidth	136 MHz / 790 MHz
Gain	3 dBi / 5 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Ground	Direct Ground
Weight	490 g / 1.08 lb
Connector	N Female
Diameter × Depth	φ 186 × 80 mm / φ 7.32 × 3.15 in
Temperature	Working temperature: -40°C~+ 60°C / -40°F~+140°F Limit temperature: -55°C~+70°C / -67°F~+158°F
Radome Material	UV-resistance ABS
Color	White
Pattern	Omnidirectional

CM8022-3H
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	3 dBi
VSWR	< 1.4
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Intermodulation (IM3)	< -110dBm
Ground	Direct Ground
Weight	500 g / 1.10 lb
Connector	N Female
Diameter x Depth	φ 168 × 98 mm / φ 6.61 × 3.85 in
Radiator Material	Brass
Radome Material	UV-resistance ABS
Color	White
Pattern	Omnidirectional

CM8022-2XG
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz / 460 MHz
Gain	2 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Ground	Direct Ground
Diameter x Depth	φ 186 × 62 mm / φ 7.32 × 2.44 in
Length	400 mm / 1.31 ft
Connector	N Female
Cable	White
Weight	270 g / 9.52 oz (avoirdupois)
Radome Material	UV-resistance ABS
Intermodulation (IM3)	< -107dBm
Color	White
Radiator Material	Brass

1710-1900 MHz Corner Panel Antennas

CP1900-10-65 (Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	10dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Mechanical Adjustment	-60° ~ +60°, Adjustable
Rated Power	200 W
Rated Wind Velocity	241 km/h / 149.75 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing Material	UV-Resistance ABS
Weight	0.45 kg / 0.99 lb
Vertical Beamwidth	63°
Horizontal Beamwidth	65°
Dimension	155 × 200 × 25 mm / 6.10 × 200 × 7.87 in
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 160°F
Pattern	Omnidirectional

CP1900-10-65To (Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	10 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	50 W
Horizontal Beamwidth (3dB)	65°
Vertical Beamwidth (3dB)	63°
Weight	500 g / 17.63 oz (avoirdupois)
Connector	N Female
Lightning Protection	DC Ground
Dimension	200 × 150 × 30 mm / 7.87 × 5.91 × 1.81 in
Radiation Material	Brass
Radome Material	UV Protected ABS
Color	White

CP1900-10-65T15

(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	10dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Mechanical Adjustment	-15° ~ +15°, Adjustable
Rated Power	200 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Male
Lightning Protection	Direct Ground
Element Housing Material	UV-Resistance ABS
Weight	0.45 kg / 0.99 lb
Vertical Beamwidth	63°
Horizontal Beamwidth	65°
Dimension	155 × 200 × 25 mm / 6.10 × 7.87 × 0.01 in
Working Temperature and Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

CP1900-7-90

(Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	7 dBi
VSWR	< 1.5
Nominal Impedance	50Ω
Polarization	Linear
Maximum Power	50 W
Horizontal Beamwidth (3dB)	88°
Vertical Beamwidth (3dB)	47°
Weight	200 g / 7.05 oz (avoirdupois)
Connector	N Female
IM3	< -107dBm
Lightning Protection	DC Ground
Dimension	105 × 84 × 35 mm / 4.13 × 3.31 × 1.38 in
F/B Ratio	> 15 dB
Radiation Material	Brass
Radome Material	UV Protected ABS
Color	White

CPD1900-14-30
(Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	±45°
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Weight	1.5 kg / 3.31 lb
Connector	2x N Female
Dimensions	310 × 310 × 35 mm / 1.02 × 1.02 × .11 ft
Isolation	> 28dB
F/B Ratio	≥ 25 dB
Horizontal Beamwidth (3dB)	35°
Vertical Beamwidth (3dB)	33°
IM3	≤ -107dBm
Lightning Protection	DC Ground
Radome Material	Fiberglass
Diameter of Installation Pole	φ 30 – 75 mm / φ 1.18 – 2.95 in

CPD1900-17-90
(Previous picture)

Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	17dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	300 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	7/16DIN or N Female
Lightning Protection	Direct Ground
Element Housing Material	UV-Resistance ABS
Weight	6 kg / 13.23 lb
Vertical Beamwidth (3dB)	90°
Horizontal Beamwidth (3dB)	7°
Dimension	1220 × 158 × 70mm / 4.0 × 0.52 × 0.23 ft
Working Temperature and Humidity Pattern	-40 to 60°C; 20-95% / -40 to 140°F
	Omnidirectional

CPD1900-18-65
(Previous picture)

Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	18dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	±45°
Maximum Power	300 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female
Lightning Protection	Direct Ground
Element Housing Material	UV-Resistance ABS
Weight	8 kg / 17.63 lb
Vertical Beamwidth (3dB)	65°
Horizontal Beamwidth (3dB)	7°
Dimension	1220 × 158 × 70 mm / 4.00 × 0.52 × 0.23 ft
Working Temperature and Humidity Pattern	-40 to 60°C; 20-95% / -40 to 140°F
	Omnidirectional

CP820-7-90A
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170 MHz
Bandwidth	136 MHz & 460 MHz
Gain	7 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Line
Maximum Power	50 W
Cable	RG58U
Dimensions	210 × 180 × 44 mm / 8.27 × 7.09 × 1.73 in
Length	400 mm / 1.31 ft
Connector	2× N-Female
Lightning Protection	DC Ground
Weight	645 g / 22.75 oz (avoirdupois)
Radiation Material	Brass
Radome Material	UV-Resistance ABS
Color	White

CP820-7-90
(Pictured below)



Frequency Range	824-960 MHz & 1710-2170MHz
Bandwidth	136 MHz / 460 MHz
Gain	7 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Rated Power	50 W
Element Housing Material	UV-Resistance ABS
Dimensions	210 × 180 × 44 mm / 8.27 × 7.09 × 1.73 in
Color	White
Connector	N-Main
Cable	RG58/U
Length	300 mm / 11.81 in
Lightning Protection	Direct Ground
Weight	600 g / 21.16 oz (avoirdupois)
Working Temperature And Humidity	-40 to 60°C; 20-95% / -40 to 140°F
Pattern	Omnidirectional

1710-1900 MHz Back Fire Antennas

BF1900-15
(Pictured below)



Frequency Range	1880-1920 MHz
Bandwidth	40 MHz
Gain	15dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	Vertical
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Connector	N or TNC
Lightning Protection	Direct Ground
Element Housing Material	UV-Resistance ABS
Weight	6 kg / 13.23 lb
Vertical Beamwidth (3dB)	31°
Horizontal Beamwidth (3dB)	32°
F/B Ratio	26dB
Dimension	276mm × 350mm × 350mm / 10.87 × 13.78 × 13.78in

BFD1900-15
(Pictured below)



Frequency Range	1880-1930 MHz
Bandwidth	50 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Polarization	± 45°
Maximum Power	100 W
Rated Wind Velocity	216 km/h / 135 mph
Vertical Beamwidth (3dB)	32°
Horizontal Beamwidth (3dB)	32°
Connector	2 × N Female
Isolation	> 28 dB
Diameter of Installation Pole	φ 30 – 75 mm / φ 1.18 – 2.95 in
Lightning Protection	DC-Ground
F/B Ratio	≥ 25dB
Dimensions	φ 350 - 400 (mm) / φ 1.15 – 1.31 (ft)
Radome Material	UV Protected ABS

2400-2500 MHz

Base Station Sector Antennas

BP2400-15.5-60 (Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB	60°
Beamwidth	
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	4 kg / 8.82 lb

BP2400-15.5-60A (Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB	60°
Beamwidth	
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	4 kg / 8.82 lb

BP2400-12-90
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	12 dBi
Beamwidth in Horizontal Plane	90°
Beamwidth in Vertical Plane	18°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	720mm × 160mm × 60mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	3.2 kg / 7.05 lb

BP2400-14-90
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	14 dBi
VSWR	≤ 1.5 dB
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	90°
F/B	≥ 25 dB
Dimension	720mm × 160mm × 60mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	4 kg / 8.82 lb

BP2400-14-90A
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	14 dBi
VSWR	≤ 1.5 dB
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	90°
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	4 kg / 8.82 lb

BP2400-16-90
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	16 dBi
Beamwidth in Horizontal Plane	90°
Beamwidth in Vertical Plane	8°
F/B	≥ 15 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Horizontal
Maximum Power	100 W
Connector	N Female
Dimension	1220mm × 160mm × 60mm / 4.00 ft × 0.52 ft × 0.20 ft
Weight	6 kg / 13.23 lb

BP2400-17-90
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	17 dBi
VSWR	≤ 1.5 dB
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	90°
F/B	≥ 25 dB
Weight	6 kg / 13.23 lb
Rated Wind Velocity	216 km/h / 135 mph

BP2400-11-120
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	11 dBi
Beamwidth in Horizontal Plane	120°
Beamwidth in Vertical Plane	8°
F/B	≥ 15 dB
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Horizontal
Maximum Power	100 W
Connector	N Female
Dimension	720mm × 160mm × 60 mm / 2.36 ft × 0.52 ft × 0.20 ft
Weight	3.2 kg / 7.05 lb

BP2400-12.5-120
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	12.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	120°
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	4 kg / 8.82 lb

BP2400-12.5-120A
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	12.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	120°
F/B	≥ 25 dB
Dimension	700mm × 160mm × 80 mm / 2.30 ft × 0.52 ft × 0.26 ft
Weight	4 kg / 8.82 lb

BP2400-15.5-120
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	15.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	120°
F/B	≥ 25 dB
Dimension	1220 × 180 × 80 mm / 4.0 × 0.59 × 0.26 ft
Weight	6 kg / 13.2 lb
Rated Wind Velocity	216 km/h / 135 mph

BP2400-8-80	2400-2500	8	80 / 60

2400-2500 MHz Ceiling Mount Antennas

CM2400-2.5A
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	2.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Dimension	120 × 45 mm / 4.72 × 1.77 in
Mounting Method	Fixed With Nut
Pattern	Omnidirectional

CM2400-2.5B
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	2.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Dimension	120 × 45 mm / 4.72 × 1.77 in
Mounting Method	Fixed With Nut
Pattern	Omnidirectional

CM2400-2.5C
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	2.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Dimension	120 × 45 mm / 1.72 × 1.77 in
Mounting Method	Fixed With Nut
Pattern	Omnidirectional

CM2400-3
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
Dimension	180 × 90 mm / 7.09 × 3.54 in
Weight	350 g / 12.35 oz (avoirdupois)
Mounting Method	Fixed With Nut
Pattern	Omnidirectional

CM2400-3B
(Pictured below)



Frequency Range	2400-2500 MHz
Bandwidth	100 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50Ω
Maximum Power	50 W
Connector	N Female
Polarization	Vertical
Ground	Direct Ground
Weight	360 g / 12.7 oz (avoirdupois)
Width x Height	φ 184 × 105 mm / φ 7.24 × 4.13 in
Radiator Material	Brass
Pattern	Omnidirectional

2400-2500 MHz

Fiberglass Omnidirectional Antennas

FO2400-3
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
Length	25 cm / 9.84 in
Weight	98 g / 3.46 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO2400-5
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
Length	30 cm / 18.81 in
Weight	112 g / 3.95 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO2400-8
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	8 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth in Vertical Plane	16°
Length	0.6 m / 1.97 ft
Weight	0.5 kg / 1.10 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO2400-9
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	9 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth in Vertical Plane	16°
Length	0.8 m / 2.62 ft
Weight	0.85 kg / 1.87 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO2400-10D
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	10 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth in Vertical Plane	10.5°
Length	1.0 m / 3.28 ft
Weight	1.1 kg / 2.43 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO2400-12
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth in Vertical Plane	9°
Length	1.2 m / 3.94 ft
Weight	1.2 kg / 2.65 lb
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO2400-10A	2400-2483	10	360 / 10.5

2400-2500 MHz Parabolic Antennas

BF2400-16
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	3 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	26°
F/B	≥ 30 dB
Diameter	260 mm / 10.24 in
Weight	2 kg / 4.41 lb

BF2400-16A
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Horizontal Plane 3dB Beamwidth	26°
F/B	≥ 30 dB
Diameter	260 mm / 10.24 in
Weight	2 kg / 4.41 lb

PG2400-24
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	24 dBi
Horizontal Beamwidth	10°
Vertical Beamwidth	14°
F/B Ratio	≥ 31
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Dimension	0.6 × 0.9 m / 1.97 × 2.95 ft
Weight	2.5 kg / 5.51 lb
Rated Wind Velocity	216 km/h / 135 mph
Connector	N Female

PG2400-27-12
(Pictured below)



Frequency Range	2400-2500 MHz
Bandwidth	100 MHz
VSWR	≤ 1.4
Gain	27 dBi
Impedance	50Ω
Polarization	Vertical or Horizontal
Half Power Beamwidth	7.5°
F/B Ratio	≥ 38dB
Maximum Power	100 W
Connector	N Female
Diameter	1200 mm / 3.94 ft
Weight	11 kg / 24.25 lb
Wind Loading Area –	
Front	0.48 m ² / 5.17 ft ²
Side	0.19 m ² / 2.05 ft ²
Wind Load	216 km/h / 135 mph
Azimuth	±90°
Elevation	±15°
Ground	Direct Ground

PG2400-29-12
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	27 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	5.3°
3dB Beamwidth H Plane	5.3°
F/B	≥ 30 dB
Diameter	1.5 m / 4.92 ft
Weight	25 kg / 55.12 lb
Rated Wind Velocity	216 km/h / 135 mph

PG2400-30.5-18
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	27 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
3dB Beamwidth E Plane	4.5°
3dB Beamwidth H Plane	4.5°
F/B	≥ 30 dB
Diameter	1.8 m / 5.91 ft
Weight	30 kg / 66.14 lb
Rated Wind Velocity	216 km/h / 135 mph

2400-2500 MHz

Yagi Antennas

YA2400-9.5 (Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	9.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
3dB Beamwidth E Plane	45°
3dB Beamwidth H Plane	50°
F/B	≥ 16 dB
Length	0.45 m / 1.48 ft
Weight	0.65 kg / 1.43 lb
Rated Wind Velocity	216 km/h / 135 mph

YA2400-11.1-8 (Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	11.15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
3dB Beamwidth E Plane	40°
3dB Beamwidth H Plane	48°
F/B	≥ 18 dB
Length	0.48 m / 1.57 ft
Weight	0.68 kg / 1.50 lb
Rated Wind Velocity	216 km/h / 135 mph

YA2400-11.6-10 (Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	11.6 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	36°
3dB Beamwidth H Plane	40°
F/B	≥ 18 dB
Length	0.5 m / 1.64 ft
Weight	0.7 kg / 1.54 lb

YA2400-11.6 (Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
Length	60 cm / 1.97 ft
Weight	0.8 kg / 1.76 lb

YA2400-12-12 (Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	12 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	32°
3dB Beamwidth H Plane	3°
F/B	≥ 18 dB
Length	0.6 m / 1.97 ft
Weight	0.75 kg / 1.65 lb
Rated Wind Velocity	216 km/h / 135 mph

YA2400-13-15
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	13 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	30°
F/B	≥ 18 dB
Length	0.65 m / 2.13 ft
Weight	0.8 kg / 1.76 lb
Rated Wind Velocity	216 km/h / 135 mph

YA2400-14R
(Pictured below)



Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	35°
F/B	≥ 20 dB
Length	320 mm / 1.05 ft
Weight	725 g / 1.60 lb

YA2400-15R
(Previous Picture)

Frequency Range	2400-2483 MHz
Bandwidth	83 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	25°
3dB Beamwidth H Plane	25°
F/B	≥ 18 dB
Length	0.7 m / 2.30 ft
Weight	1 kg / 2.20 lb

YA2400-8	2400-2483	11.2

3400-3600 MHz

Base Station Sector Antenna

BP3400-21-30
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	21 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	30°
3dB Beamwidth H Plane	8°
F/B	≥ 25 dB
Weight	3.2 kg / 7.05 lb

BP3400-19-45
(Previous Picture)

Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	19 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	45°
3dB Beamwidth H Plane	8°
F/B	≥ 25 dB
Weight	3.2 kg / 7.05 lb

BP3400-19-45B
(Previous Picture)

Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	19 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 Watts
Connector	N Female
3dB Beamwidth E Plane	45°
F/B	≥ 30 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × .52 ft × .26 ft
Weight	4.5 kg / 9.92 lb

BP3400-18-65
(Previous Picture)

Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	65°
3dB Beamwidth H Plane	7°
F/B	≥ 25 dB
Weight	3.2 kg / 7.05 lb

BP3400-18-60
(Previous Picture)

Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	60°
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	3.2 kg / 7.05 lb

BP3500-16-60H
(Pictured below)



Frequency Range	3400-370 MHz
Bandwidth	300 MHz
VSWR	≤ 1.5
Gain	16dBi
Impedance	50Ω
Polarization	Horizontal
Weight	1.5 kg / 3.31 lb
F/B Ratio	< -25dB
Rated Power	50 W
Connector	N Female
Cross-Polarization Discrimination	< -20dB
Rated Wind Velocity	216 km/h / 135 mph
H-Plane Half Power Beamwidth	60°
E-Plane Half Power Beamwidth	11.5°
Ground	Direct Ground
Dimensions	650 mm × 90 mm × 50 mm / 2.1 ft × 0.29 ft × 0.16 ft
Operating Temperature	-40 to 70°C / -40 to 158°F

BP3500-16-60V
(Previous Picture)

Frequency Range	3400-370 MHz
Bandwidth	300 MHz
VSWR	≤ 1.5
Gain	16dBi
Impedance	50Ω
Polarization	Vertical
Weight	1.5 kg / 3.31 lb
F/B Ratio	< -25dB
Rated Power	50 W
Connector	N Female
Cross-Polarization Discrimination	< -20dB
Rated Wind Velocity	216 km/h / 135 mph
H-Plane Half Power Beamwidth	60°
E-Plane Half Power Beamwidth	11.5°
Ground	Direct Ground
Dimensions	650 mm × 90 mm × 50 mm / 2.1 ft × 0.29 ft × 0.16 ft
Operating Temperature	-40 to 70°C / -40 to 158°F

BP3500-17-60H
(Previous Picture)

Frequency Range	3400-370 MHz
Bandwidth	300 MHz
VSWR	≤ 1.5
Gain	17dBi
Impedance	50Ω
Polarization	Horizontal
Weight	1.5 kg / 3.31 lb
F/B Ratio	< -25dB
Rated Power	50 W
Connector	N Female
Cross-Polarization Discrimination	< -20dB
Rated Wind Velocity	216 km/h / 135 mph
H-Plane Half Power Beamwidth	60°
E-Plane Half Power Beamwidth	9°
Ground	Direct Ground
Dimensions	650 mm × 90 mm × 50 mm / 2.1 ft × 0.29 ft × 0.16 ft
Operating Temperature	-40 to 70°C / -40 to 158°F

BP3500-17-60V
(Previous Picture)

Frequency Range	3400-370 MHz
Bandwidth	300 MHz
VSWR	≤ 1.5
Gain	17dBi
Impedance	50Ω
Polarization	Vertical
Weight	1.5 kg / 3.31 lb
F/B Ratio	< -25dB
Rated Power	50 W
Connector	N Female
Cross-Polarization Discrimination	< -20dB
Rated Wind Velocity	216 km/h / 135 mph
H-Plane Half Power Beamwidth	60°
E-Plane Half Power Beamwidth	9°
Ground	Direct Ground
Dimensions	650 mm × 90 mm × 50 mm / 2.1 ft × 0.29 ft × 0.16 ft
Operating Temperature	-40 to 70°C / -40 to 158°F

BP3500-14-90H
(Previous Picture)

Frequency Range	3300-3800 MHz
Bandwidth	500 MHz
VSWR	≤ 1.5 (3700MHz – 3800MHz < 2.0)
Gain	14dBi
Impedance	50Ω
Polarization	Horizontal
Null Fill	< -20 dB
F/B Ratio	< -26dB
Rated Power	50 W
Connector	N Female
Cross-Polarization Discrimination	< -24 dB
Weight	2 kg / 4.41 lb
Ground	Direct Ground
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
E-Plane Half Power Beamwidth	9°
H-Plane Half Power Beamwidth	90±5°
Dimensions	650 mm × 90 mm × 50 mm / 2.1 ft × 0.29 ft × 0.16 ft

BP3500-15-90V
(Previous Picture)

Frequency Range	3300-3800 MHz
Bandwidth	500 MHz
VSWR	≤ 1.5 (3700MHz – 3800MHz<2.0)
Gain	15dBi
Impedance	50Ω
Polarization	Vertical
Null Fill	< -20 dB
F/B Ratio	< -23dB
Rated Power	50 W
Connector	N Female
Cross-Polarization Discrimination	< -20 dB
Weight	2 kg / 4.41 lb
Ground	Direct Ground
Supporting Pole	φ 50 – 115 mm / φ 1.97 – 4.53 in
E-Plane Half Power Beamwidth	8°
H-Plane Half Power Beamwidth	90±5°
Dimensions	650 mm × 90 mm × 50 mm / 2.1 ft × 0.29 ft × 0.16 ft

BP3400-17-90
(Previous Picture)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	90°
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	3.2 kg / 7.05 lb

BP3400-15-120
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth E Plane	120°
F/B	≥ 25 dB
Dimension	600mm × 160mm × 80mm / 1.97 ft × 0.52 ft × 0.26 ft
Weight	3.2 kg / 7.05 lb

3400-3600 MHz Corner Panel Antennas

CP3400-20-15
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	20 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female or Custom
3dB Beamwidth E Plane	15°
3dB Beamwidth H Plane	14°
F/B	≥ 25 dB
Dimension	340 × 340 × 45 mm / 1.12 × 1.12 × .15 ft
Weight	3 kg / 6.61 lb
Rated Wind Velocity	216 km/h / 135 mph

CP3500-15-33
(Pictured below)



Frequency Range	3350-3600 MHz
Bandwidth	250 MHz
VSWR	< 1.4
Gain	14.5dBi
Impedance	50Ω
Polarization	Vertical
Radiator Material	Brass
F/B Ratio	≥ 25dB
Rated Power	50 W
Connector	N Female
Radome Material	UV-Resistance ABS
Ground	Direct Ground
E-Plane Half Power Beamwidth	33°
H-Plane Half Power Beamwidth	33°
Dimensions	200 × 150 × 30 mm / 7.87 × 5.91 × 1.18 in
The First Upper Sidelobe	≤ -17dB
The First Lower Sidelobe	≥ -17dB

CP3400-12-30
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	12 dBi
Beamwidth in Horizontal Plane	30°
Beamwidth in Vertical Plane	80°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Connector	N Female or Custom
Maximum Power	50 W
Dimension	145 × 97 × 38 mm / 5.71 × 3.82 × 1.50 in
Weight	210 g / 7.41 oz
Rated Wind Velocity	216 km/h / 135 mph

3400-3600 MHz Fiber Omnidirectional Antennas

FO3400-7
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	150 MHz
Gain	7 dBi
Beamwidth in Horizontal Plane	20°
Beamwidth in Vertical Plane	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Connector	N Female
Maximum Power	100 W
Dimension	20 × 500 mm / 0.07 × 3.28 ft
Weight	250 g / 8.82 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO3400-9
(Previous Picture)

Frequency Range	3400-3600 MHz
Bandwidth	150 MHz
Gain	9 dBi
Beamwidth in Horizontal Plane	12°
Beamwidth in Vertical Plane	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Connector	N Female
Maximum Power	100 W
Dimension	20 × 800 mm / 0.07 × 3.28 ft
Weight	400 g / 14.11 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO3400-11
(Previous Picture)

Frequency Range	3400-3600 MHz
Bandwidth	150 MHz
Gain	11 dBi
Beamwidth in Horizontal Plane	9.5°
Beamwidth in Vertical Plane	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Connector	N Female
Maximum Power	100 W
Dimension	20 × 1000 mm / 0.07 × 3.28 ft
Weight	500 g / 17.64 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

3400-3600 MHz Parabolic Antennas

BF3400-14
(Pictured below)



Frequency Range	3400-3530 MHz
Bandwidth	130 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
Horizontal Beamwidth	26°
Vertical Beamwidth	24°
F/B	≥ 30 dB
Dimension	180 mm / 7.09 in
Weight	2 kg / 4.41 lb

BF3500-16

(Pictured below)



Frequency Range	3350-3600 MHz
Bandwidth	250 MHz
VSWR	≤ 1.5
Gain	16dBi
Impedance	50Ω
Polarization	Vertical
Radiator Material	Brass
F/B Ratio	≥ 35dB
Rated Power	50 W
Connector	N or SMA
Radome Material	UV-Resistance ABS
Supporting Pole	φ 30 – 60 mm / φ 1.18 - 2.36 in
Ground	Direct Ground
Rated Wind Velocity	216 km/h / 135 mph
E-Plane Half Power Beamwidth	32.5°
H-Plane Half Power Beamwidth	25.5°
Diameter x Depth	φ 261 × 120 mm / φ 10.28 × 4.72 in

BF3400-14SWM

(Pictured below)



Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
Horizontal Beamwidth	26°
Vertical Beamwidth	24°
F/B	≥ 30 dB
Dimension	180 mm / 7.09 in
Weight	2 kg / 4.41 lb

PG3400-23-06
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	14 dBi
Beamwidth	9.5°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
F/B	≥ 30 dB
Dimension	610 x 915 mm / 2.0 x 3.0 FT
Weight	2 kg / 4.41 lb

SP3400-24.5-06
(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	24.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth	10°
Horizontal Plane	
F/B	≥ 32 dB
Diameter	0.6 m / 1.97 ft
Weight	5 kg / 11.02 lb

PG3500-25-06

(Pictured below)



Frequency Range	3380-3540 MHz
Bandwidth	160 MHz
VSWR	≤ 1.3
Gain	25dBi
Impedance	50Ω
Polarization	Linear
Weight (including clamps)	3.5 kg / 7.72 lb
F/B Ratio	≥ 35dB
Maximum Power	100 W
Connector	N Female
Cross-Polarization Discrimination	> 27dB
Rated Wind Velocity	216 km/h / 135 mph
Half Power Beamwidth	≤ 8°
Azimuth	360°
Diameter	624 mm / 2.05 ft
Sidelobe	≤ -12dB
Elevation	±20°
Rated Wind Velocity	
Area – Front	0.21 m ² / 2.26 ft ²
Side	0.049 m ² / 0.53 ft ²

PG3400-27-06

(Pictured below)



Frequency Range	3400-3600 MHz
Bandwidth	200 MHz
Gain	14 dBi
Beamwidth	9.5°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
F/B	≥ 30 dB
Dimension	610 x 915 / 2.0 x 3.0 ft
Weight	2 kg / 4.41 lb

5100-5800 MHz

Base Station Sector Antennas

BP5700-18-60
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	N Female
3dB Beamwidth Horizontal Plane	60°
3dB Beamwidth in Vertical Plane	8°
F/B	≥ 25 dB
Dimension	370mm × 170mm × 65mm / 1.21 ft × 0.56 ft × 0.21 ft
Weight	1 kg / 2.20 lb

BP5700-14-90
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	14 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	90°
3dB Beamwidth in Vertical Plane	16°
F/B	≥ 25 dB
Dimension	190mm × 216mm × 50mm / 7.48 in × 8.50 in × 1.97 in
Weight	550 g / 1.21 lb

BP5700-16-90
(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	16 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	90°
3dB Beamwidth in Vertical Plane	8°
F/B	≥ 25 dB
Dimension	370mm × 170mm × 65mm / 1.21 ft × 0.56 ft × 0.21 ft
Weight	1 kg / 2.20 lb

BP5700-17-90
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	17 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth	90°
Horizontal Plane	
3dB Beamwidth in Vertical Plane	8°
F/B	≥ 25 dB
Dimension	370 × 170 × 65 mm / 1.21 × 0.56 × 0.21 ft
Weight	1 kg / 2.2 lb

BP5700-15-120
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth	120°
Horizontal Plane	
3dB Beamwidth in Vertical Plane	8°
F/B	≥ 18 dB
Dimension	550mm × 160mm × 60mm / 1.80 ft × 1.70 ft × 0.43 ft
Weight	3 kg / 6.61 lb

BP5700-16-45	5725-5850	16	45 / 16
BP5700-15-60	5725-5850	15	60 / 16

5100-5800 MHz Corner Panel Antennas

CP5700-14
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	14 dBi
Vertical Beamwidth	30°
Horizontal Beamwidth	40°
F/B	≥ 18
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female or Custom
Dimension	145 × 97 × 38 mm / 5.71 × 3.82 × 1.50 in
Weight	210 g / 7.41 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

CP5700-15-60
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	60°
3dB Beamwidth Vertical Plane	16°
F/B	≥ 25 dB
Dimension	190 × 216 × 50 mm / 7.48 × 8.50 × 1.97 in
Weight	550 g / 19.40 oz (avoirdupois)

CP5700-16-45
(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	16 dBi
Weight	550 g / 19.40 oz
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	45°
3dB Beamwidth Vertical Plane	16°
F/B	≥ 25 dB
Dimension	190 × 216 × 50 mm / 7.48 × 8.50 × 1.97 in

CP5700-18

(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	22°
3dB Beamwidth Vertical Plane	16°
F/B	≥ 5dB
Dimension	190 × 216 × 50 mm / 7.48 × 8.50 × 1.97 in
Weight	550 g / 19.40 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

CP5700-18-22

(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	18 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	22°
3dB Beamwidth Vertical Plane	16°
F/B	≥ 5dB
Dimension	190 × 216 × 50 mm / 8.66 × 7.48 × 1.77 in
Weight	550 g / 19.40 oz
Rated Wind Velocity	216 km/h / 135 mph

CP5700-19

(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	19 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	4°
3dB Beamwidth Vertical Plane	8°
F/B	≥ 25dB
Dimension	370 × 170 × 65 mm / 1.21 × .56 × .21 ft
Weight	1 kg / 2.20 lb

CP5800-19-16
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
VSWR	≤ 1.5
Gain	19dBi
Impedance	50Ω
Horizontal Beamwidth (3dB)	16°
Vertical Beamwidth (3dB)	16°
F/B Ratio	≥ 25dB
Maximum Power	200 W
Connector	N Female
IM3	≤ -107dBm
Rated Wind Velocity	216 km/h / 135 mph
Radome Material	Fiberglass
Diameter of Installation Pole	φ 30 – 75 mm / φ1.18 – 2.95 in
Dimension	263 × 193 × 42 mm / 10.35 × 7.60 × 1.65 in
Weight	1 kg / 2.20 lb

CP5700-15	5725-5850	15	60 / 16

CP5700-16	5725-5850	16	45 / 16

5100-5800 MHz Fiberglass Omnidirectional Antennas

FO5100-8
(Pictured below)



Frequency Range	5150-5250 MHz
Bandwidth	200 MHz
Gain	8 dBi
Horizontal Beamwidth	16°
Vertical Beamwidth	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	20 × 350 mm / 0.79 x 13.78 in
Weight	200 g / 7.05 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

FO5100-10
(Previous picture)

Frequency Range	5150-5250 MHz
Bandwidth	100 MHz
Gain	10 dBi
Horizontal Beamwidth	10°
Vertical Beamwidth	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	20 × 400 mm / 0.79 x 1.31 IN
Weight	350 g / 12.35 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

FO5100-12

(Previous picture)

Frequency Range	5150-5250 MHz
Bandwidth	100 MHz
Gain	12 dBi
Horizontal Beamwidth	7°
Vertical Beamwidth	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	20 × 600 mm / 0.07 × 1.97 ft
Weight	550 g / 19.4 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO5700-8K

(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	8 dBi
Horizontal Beamwidth	16°
Vertical Beamwidth	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	20 × 350 mm / 0.07 × 1.15 ft
Weight	200 g / 7.05 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO5700-10

(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	10 dBi
Horizontal Beamwidth	10°
Vertical Beamwidth	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	20 × 400 mm / 0.07 × 1.31 ft
Weight	350 g / 12.35 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO5700-12

(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	12 dBi
Horizontal Beamwidth	7°
Vertical Beamwidth	360°
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	100 W
Connector	N Female
Dimension	20 × 540 mm / 0.07 × 1.64 ft
Weight	500 g / 17.64 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph
Pattern	Omnidirectional

FO5700-8	5725-5850	8	360 / 16

5100-5800 MHz

Parabolic Antennas

PG5000-30-10

(Pictured below)



Frequency Range	4400-5000 MHz
Bandwidth	600 MHz
VSWR	≤ 1.6
Gain	29±1dBi
Impedance	50Ω
Polarization	Vertical or Horizontal
Weight	5.3 kg / 11.68 lb
F/B Ratio	> 31dB
Maximum Power	100 W
Connector	N Female
Half Power Beamwidth	≤ 5°
Maximum Wind Velocity	216 km/h / 135 mph
The First Upper Sidelobe	< -18dB

Diameter 1 m / 3.28 ft

PG5800-30-08
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
VSWR	≤ 1.4
Gain	30dBi
Impedance	50Ω
Polarization	Linear
Azimuth	360°
F/B Ratio	38dB
Maximum Power	100 W
Connector	N-50(F)
Elevation	±20°
Maximum Wind Velocity	216 km/h / 135 mph
Half Power Beamwidth	≤ 5°
The First Upper Sidelobe	≤ -18 dB
Diameter	824 mm / 2.70 ft
Cross-Polarization Discrimination	> 30dB
Weight (including clamp)	4.8 kg / 10.58 lb
Wind Loading Area	0.27 m ² / 2.91 ft ²

PG5200-30-08
(Pictured below)



Frequency Range	5180-5320 MHz
Bandwidth	140 MHz
VSWR	≤ 1.2
Gain	30dBi
Impedance	50Ω
Polarization	Linear
Weight (including clamp)	4.8 kg / 10.58 lb
F/B Ratio	44dB
Maximum Power	100 W
Connector	N Female
Half Power Beamwidth	≤ 5°
Maximum Wind Velocity	216 km/h / 135 mph
The First Upper Sidelobe	≤ -15dB
Cross-Polarization Discrimination	> 28 dB
Wind Loading Area	0.27 m ² / 2.91 ft ²
Azimuth	360°
Elevation	±20°
Diameter	8 FT

BF5800-18
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
VSWR	≤ 1.4
Gain	18dBi
Impedance	50Ω
Polarization	Vertical or Horizontal
Azimuth	± 90°
F/B Ratio	> 25dB
Maximum Power	20 W
Connector	N Female
Elevation	± 15°
Wind Load	216 km/h / 135 mph
E-Plane Half Power Beamwidth	25°
H-Plane Half Power Beamwidth	25°
Diameter x Depth	φ 270 × 90 mm / φ 10.63 × 3.54 in
Ground	Direct Ground
H-Plane: the first sidelobe	≤ -14dB
E-Plane: the first sidelobe	≤ -18dB

BF5800-17
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
VSWR	≤ 1.5
Gain	17dBi
Impedance	50Ω
Polarization	Vertical or Horizontal
Azimuth	± 90°
F/B Ratio	> 25dB
Maximum Power	20 W
Connector	N Female
Elevation	± 15°
Maximum Wind Velocity	216 km/h / 135 mph
E-Plane Half Power Beamwidth	25°
H-Plane Half Power Beamwidth	25°
Diameter x Depth	φ 270 × 90 mm / φ 10.63 × 3.54 in
Ground	Direct Ground
Supporting Pole	φ30 – 60 mm / φ 1.18 - 2.36 in

SP5700-24-04
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	24 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
Horizontal Beamwidth	9°
F/B	≥ 30 dB
Diameter	0.4 m / 1.31 ft
Weight	3 kg / 6.61 lb

PG5700-27-06
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	27 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
Horizontal Beamwidth	6.5°
F/B	≥ 30 dB
Dimensions	0.6 × 0.6 m / 1.97 × 1.97 ft
Weight	5 kg / 11.02 lb

PG5800-28-06
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
VSWR	≤ 1.4
Gain	28dBi
Impedance	50Ω
Polarization	Linear
Azimuth	360°
F/B Ratio	≥ 36dB
Maximum Power	100 W
Connector	N Female
Elevation	±20°
Maximum Wind Velocity	216 km/h / 135 mph
Half Power Beamwidth	≤ 6°
The First Upper Sidelobe	≤ -16 dB
Diameter	624 mm / 2.05 ft
Cross-Polarization Discrimination	> 27dB
Weight (including clamps)	3.5 kg / 7.72 lb
Wind Loading Area	0.21 m ² / 2.26 ft ²

PG5800-22-08
(Pictured below)



Frequency Range	5725-5800 MHz
Bandwidth	75 MHz
VSWR	≤ 1.5
Gain	22dBi
Impedance	50Ω
Polarization	Vertical or Horizontal
Weight	2 kg / 4.41 lb
F/B Ratio	≥ 32dB
Maximum Power	20 W
Connector	N Female
IM3	≤ -107dBm
Rated Wind Velocity	216 km/h / 135 mph
Horizontal Beamwidth (3dB)	8°
Vertical Beamwidth (8dB)	8°
Dimensions	306 × 306 × 20mm / 12.05 × 12.05 × 0.79in
Radome Material	Fiberglass
Diameter of Installation Pole	φ 8 – 75 mm / φ 0.31 – 2.95 in

SP5700-29-06A
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	29 dBi
VSWR	1.7
Nominal Impedance	50 ohm
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	6°
3dB Beamwidth Vertical Plane	6°
F/B	≥ 35 dB
Diameter	0.6 m / 1.97 ft
Weight	5 kg / 11.02 lb

SP5700-29-06B
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	29 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth Horizontal Plane	6°
F/B	≥ 35 dB
Diameter	0.6 m / 1.97 ft
Weight	5 kg / 11.02 lb

SP5700-32.5-09
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	32.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	100 W
Connector	N Female
3dB Beamwidth	4°
Horizontal Plane	
F/B	≥ 38 dB
Diameter	0.9 m / 2.95 ft
Weight	10 kg / 22.05 lb

PG5700-27	5725-5850	27	6.5

5100-5800 MHz
Yagi Antennas

YA5700-15
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	15 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	50 W
Connector	N Female
3dB Beamwidth	25°
Horizontal Plane	
F/B	≥ 20 dB
Length	320 mm / 1.05 ft
Weight	625 g / 1.38 lb

YA5800-17.5
(Previous picture)

Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	17.5 dBi
VSWR	≤ 1.5
Nominal Impedance	50 ohm
Polarization	Vertical or Horizontal
Maximum Power	50 W
Connector	N Female
3dB Beamwidth	19°
Horizontal Plane	
F/B	≥ 20 dB
Length	540 mm / 1.77 ft
Weight	775 g / 1.71 lb

5100-5800 MHz Desk Mount Antennas

DM5700-14
(Pictured below)



Frequency Range	5725-5850 MHz
Bandwidth	125 MHz
Gain	14 dBi
Horizontal Beamwidth	30°
Vertical Beamwidth	40°
F/B Ratio	≥ 18 dBi
VSWR	≤ 2.0
Nominal Impedance	50 ohm
Polarization	Vertical
Maximum Power	50 W
Connector	SMA male or Custom
Dimension	88 × 70 × 120 mm / 3.46 × 2.76 × 4.7 in
Weight	75 g / 2.65 oz (avoirdupois)
Rated Wind Velocity	216 km/h / 135 mph

5.925-6.425 GHz Antennas Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF5900-34.8-12	5.925-6.425	34.8	2.8
SPF5900-37.3-16	5.925-6.425	37.3	2.1
SPF5900-39.2-2.0	5.925-6.425	39.2	1.7
SPF5900-41.2-2.5	5.925-6.425	41.2	1.4
SPF5900-43.3-3.2	5.925-6.425	43.3	1.1
SPF5900-45.2-4.0	5.925-6.425	45.2	0.9

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD5900-37.1-1.6	5.925-6.425	37.1	2.1
SPFD5900-39.0-2.0	5.925-6.425	39.0	1.7
SPFD5900-41.0-2.5	5.925-6.425	41.0	1.4
SPFD5900-43.1-3.2	5.925-6.425	43.1	1.1
SPFD5900-45-4.0	5.925-6.425	45.0	0.9

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH5900-35.2-1.2	5.925-6.425	35.2	2.8
SPFH5900-37.7-1.6	5.925-6.425	37.7	2.1
SPFH5900-39.6-2.0	5.925-6.425	39.6	1.7
SPFH5900-41.6-2.5	5.925-6.425	41.6	1.4
SPFH5900-43.7-3.2	5.925-6.425	43.7	1.1
SPFH5900-45.7-4.0	5.925-6.425	45.7	0.9

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD5900-37.5-1.6	5.925-6.425	37.5	2.1
SPFHD5900-39.4-2.0	5.925-6.425	39.4	1.7
SPFHD5900-41.4-2.5	5.925-6.425	41.4	1.4
SPFHD5900-43.5-3.2	5.925-6.425	43.5	1.1
SPFHD5900-45.5-4.0	5.925-6.425	45.5	0.9

Standard Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPC5900-39.2-2.0	5.925-6.425	39.2	1.7
SPC5900-39.0-2.0	5.925-6.425	39.0	1.7

High Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPCH5900-39.6-2.0	5.925-6.425	39.6	1.7
SPCH5900-43.7-3.2	5.925-6.425	43.7	1.1

High Performance Cassegrain Dual Reflector, Dual Polarized Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPCHD5900-39.4-2.0	5.925-6.425	39.4	1.7
SPCHD5900-43.5-3.2	5.925-6.425	43.5	1.1

High Performance XPD Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
XPD5900-41.4-2.0	5.925-6.425	41.4	1.7
XPD5900-43.5-2.5	5.925-6.425	43.5	1.4
XPD5900-45.5-3.2	5.925-6.425	45.5	1.1
XPD5900-47.1-4.0	5.925-6.425	47.1	0.9

General Specifications:

- Input Flange = FDP70
- Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- Radome is available for high performance antennas.
- Options: hanger mounting, platform mounting.

Mechanical Specifications:

- Normal Wind Load: 35 m/s
- Wind Survival: 55 m/s
- Operating Temperature: -40°C ~ + 55°C

6.425-7.125 GHz Antennas Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF6400-35.6-1.2	6.425-7.125	35.6	2.6
SPF6400-38.1-1.6	6.425-7.125	38.1	1.9
SPF6400-40.0-2.0	6.425-7.125	40.0	1.5
SPF6400-42.0-2.5	6.425-7.125	42.0	1.2
SPF6400-44.1-3.2	6.425-7.125	44.1	1.0
SPF6400-46.0-4.0	6.425-7.125	46.0	0.9

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD6400-37.9-1.6	6.425-7.125	37.9	1.9
SPFD6400-39.8-2.0	6.425-7.125	39.8	1.5
SPFD6400-41.8-2.5	6.425-7.125	41.8	1.2
SPFD6400-43.9-3.2	6.425-7.125	43.9	1.0
SPFD6400-45.8-4.0	6.425-7.125	45.8	0.8

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH6400-36.0-1.2	6.425-7.125	36.0	2.6
SPFH6400-38.5-1.6	6.425-7.125	38.5	1.9
SPFH6400-40.4-2.0	6.425-7.125	40.4	1.5
SPFH6400-42.4-2.5	6.425-7.125	42.4	1.2
SPFH6400-44.5-3.2	6.425-7.125	44.5	1.0
SPFH6400-46.5-4.0	6.425-7.125	46.5	0.8

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD6400-38.3-1.6	6.425-7.125	38.3	1.9
SPFHD6400-40.2-2.0	6.425-7.125	40.2	1.5
SPFHD6400-42.2-2.5	6.425-7.125	42.2	1.2
SPFHD6400-44.3-3.2	6.425-7.125	44.3	1.0
SPFHD6400-46.3-4.0	6.425-7.125	46.3	0.8

Standard Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPC6400-40.0-2.0	6.425-7.125	40.0	1.5
SPC6400-39.8-2.0	6.425-7.125	39.8	1.5

High Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPCH6400-40.4-2.0	6.425-7.125	40.4	1.5
SPCH6400-44.5-3.2	6.425-7.125	44.5	1.0

High Performance Cassegrain Dual Reflector, Dual Polarized Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPCHD6400-40.2-2.0	6.425-7.125	40.2	1.5
SPCHD6400-44.3-3.2	6.425-7.125	44.3	1.0

High Performance XPD Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
XPD6400-40.2-2.0	6.425-7.125	40.2	1.5
XPD6400-42.2-2.5	6.425-7.125	42.2	1.2
XPD6400-44.3-3.2	6.425-7.125	44.3	1.0
XPD6400-46.3-4.0	6.425-7.125	46.3	0.8

General Specifications:

- *Input Flange = FDP70
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

7.725-8.275 GHz Antennas Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF7700-37.0-1.2	7.725-8.2725	37.0	2.2
SPF7700-39.5-1.6	7.725-8.2725	39.5	1.6
SPF7700-41.5-2.0	7.725-8.2725	41.5	1.3
SPF7700-43.4-2.5	7.725-8.2725	43.4	1.1
SPF7700-45.6-3.2	7.725-8.2725	45.6	0.8
SPF7700-47.5-4.0	7.725-8.2725	47.5	0.7

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD7700-39.3-1.6	7.725-8.2725	39.3	1.6
SPFD7700-41.3-2.0	7.725-8.2725	41.3	1.3
SPFD7700-43.2-2.5	7.725-8.2725	43.2	1.1
SPFD7700-45.4-3.2	7.725-8.2725	45.4	0.8
SPFD7700-47.3-4.0	7.725-8.2725	47.3	0.7

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH7700-37.4-1.2	7.725-8.2725	37.4	2.2
SPFH7700-39.9-1.6	7.725-8.2725	39.9	1.6
SPFH7700-41.9-2.0	7.725-8.2725	41.9	1.3
SPFH7700-43.8-2.5	7.725-8.2725	43.8	1.1
SPFH7700-46.0-3.2	7.725-8.2725	46.0	0.8
SPFH7700-47.9-4.0	7.725-8.2725	47.9	0.7

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD7700-39.7-1.6	7.725-8.2725	39.7	1.6
SPFHD7700-41.7-2.0	7.725-8.2725	41.7	1.3
SPFHD7700-43.6-2.5	7.725-8.2725	43.6	1.1
SPFHD7700-45.8-3.2	7.725-8.2725	45.8	0.8
SPFHD7700-47.7-4.0	7.725-8.2725	47.7	0.7

Standard Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPC7700-41.5-2.0	7.725-8.2725	41.5	1.3
SPCD7700-41.3-2.0	7.725-8.2725	41.3	1.3

High Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPCH7700-41.9-2.0	7.725-8.2725	41.9	1.3
SPCH7700-46.0-3.2	7.725-8.2725	46.0	0.8

High Performance Cassegrain Dual Reflector, Dual Polarized Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPCHD7700- 41.7-2.0	7.725-8.2725	41.7	1.3
SPCHD7700- 45.8-3.2	7.725-8.2725	45.8	0.8

High Performance XPD Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
XPD7700- 41.7-2.0	7.725-8.2725	41.7	1.3
XPD7700- 43.6-2.5	7.725-8.2725	43.6	1.1
XPD7700- 45.8-3.2	7.725-8.2725	45.8	0.8
XPD7700- 47.7-4.0	7.725-8.2725	47.7	0.7

General Specifications:

- *Input Flange = FDP70 OR FDP84
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

8.200-8.700 GHz Antennas Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF8200- 37.4-1.2	8.200-8.500	37.4	2.1
SPF8200- 39.9-1.6	8.200-8.500	39.9	1.6
SPF8200- 41.8-2.0	8.200-8.500	41.8	1.3
SPF8200- 43.8-2.5	8.200-8.500	43.8	1.0
SPF8200- 45.9-3.2	8.200-8.500	45.9	0.8
SPF8200- 47.9-4.0	8.200-8.500	47.9	0.6
SPF8500- 37.7-1.2	8.500-8.700	37.7	2.0
SPF5800- 40.2-1.6	8.500-8.700	40.2	1.5
SPF5800- 42.1-2.0	8.500-8.700	42.1	1.2
SPF5800- 44.1-2.5	8.500-8.700	44.1	1.0
SPF5800- 46.2-3.2	8.500-8.700	46.2	0.8
SPF5800- 48.1-4.0	8.500-8.700	48.1	0.6

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD8200- 39.7-1.6	8.200-8.500	39.7	1.6
SPFD8200- 41.6-2.0	8.200-8.500	41.6	1.3
SPFD8200- 43.6-2.5	8.200-8.500	43.6	1.0
SPFD8200- 45.7-3.2	8.200-8.500	45.7	0.8
SPFD8200- 47.7-4.0	8.200-8.500	47.7	0.6
SPFD8500- 40.0-1.6	8.500-8.700	40.0	1.5
SPFD8500- 41.9-2.0	8.500-8.700	41.9	1.2
SPFD8500- 43.9-2.5	8.500-8.700	43.9	1.0
SPFD8500- 46.0-3.2	8.500-8.700	46.0	0.8
SPFD8500- 47.9-4.0	8.500-8.700	47.9	0.6

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH8200-37.8-1.2	8.200-8.500	37.8	2.1
SPFH8200-40.3-1.6	8.200-8.500	40.3	1.6
SPFH8200-42.3-2.0	8.200-8.500	42.3	1.3
SPFH8200-44.2-2.5	8.200-8.500	44.2	1.1
SPFH8200-46.3-3.2	8.200-8.500	46.3	0.8
SPFH8200-48.3-4.0	8.200-8.500	48.3	0.6
SPFH8500-38.1-1.2	8.500-8.700	38.1	2.0
SPFH8500-40.6-1.6	8.500-8.700	40.6	1.5
SPFH8500-42.5-2.0	8.500-8.700	42.5	1.2
SPFH8500-44.5-2.5	8.500-8.700	44.5	1.0
SPFH8500-46.6-3.2	8.500-8.700	46.6	0.8
SPFH8500-48.6-4.0	8.500-8.700	48.6	0.6

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD8200-40.7-1.6	8.200-8.500	40.7	1.6
SPFHD8200-42.1-2.0	8.200-8.500	42.1	1.3
SPFHD8200-44.0-2.5	8.200-8.500	44.0	1.0
SPFHD8200-46.1-3.2	8.200-8.500	46.1	0.8
SPFHD8200-48.1-4.0	8.200-8.500	48.1	0.6
SPFHD8500-40.4-1.6	8.500-8.700	40.4	1.5
SPFHD8500-42.3-2.0	8.500-8.700	42.3	1.2
SPFHD8500-44.3-2.5	8.500-8.700	44.3	1.0
SPFHD8500-46.4-3.2	8.500-8.700	46.4	0.8
SPFHD8500-48.4-4.0	8.500-8.700	48.4	0.6

High Performance Cassegrain Dual Reflector Antennas

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPC8200-46.3-2.0	8.200-8.500	46.3	0.8
SPCD8200-46.1-2.0	8.200-8.500	46.1	0.8
SPC8500-46.6-3.2	8.500-8.700	46.6	0.8
SPCD8500-46.4-3.2	8.500-8.700	46.4	0.8

General Specifications:

- *Input Flange = FDP70 OR FDP84
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

12.75-13.25 GHz Antennas Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF13G-35.2-0.6	12.75-13.25	35.2	2.7
SPF13G-41.3-1.2	12.75-13.25	41.3	1.3
SPF13G-43.8-1.6	12.75-13.25	43.8	1.0
SPF13G-45.7-2.0	12.75-13.25	45.7	0.8
SPF13G-47.6-2.5	12.75-13.25	47.6	0.6

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD13G-41.1-1.2	12.75-13.25	41.1	1.3
SPFD13G-43.6-1.6	12.75-13.25	43.6	1.0
SPFD13G-45.5-2.0	12.75-13.25	45.5	0.8
SPFD13G-47.4-2.5	12.75-13.25	47.4	0.6

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH13G-29.6-0.3	12.75-13.25	29.6	5.4
SPFH13G-35.6-0.6	12.75-13.25	35.6	2.7
SPFH13G-42.3-1.2	12.75-13.25	41.7	1.3
SPFH13G-44.2-1.6	12.75-13.25	44.2	1.0
SPFH13G-46.3-2.0	12.75-13.25	46.1	0.8
SPFH13G-48.3-2.5	12.75-13.25	48.0	0.6

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD13G-41.5-1.2	12.75-13.25	41.5	1.3
SPFHD13G-44.0-1.6	12.75-13.25	44.0	1.0
SPFHD13G-45.9-2.0	12.75-13.25	45.9	0.8
SPFHD13G-47.8-2.5	12.75-13.25	47.8	0.6

General Specifications:

- *Input Flange = FBP120 OR FBP140
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

14.40-15.35 GHz Antennas

Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF14G-36.4-0.6	14.40-15.35	36.4	2.4
SPF14G-42.4-1.2	14.40-15.35	42.4	1.2
SPF14G-44.9-1.6	14.40-15.35	44.9	0.9
SPF14G-46.9-2.0	14.40-15.35	46.9	0.7

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD14G-36.2-0.6	14.40-15.35	36.2	2.4
SPFD14G-42.2-1.2	14.40-15.35	42.2	1.2
SPFD14G-44.7-1.6	14.40-15.35	44.7	0.9

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH14G-30.8-0.3	14.40-15.35	30.8	4.7
SPFH14G-36.8-0.6	14.40-15.35	36.8	2.4
SPFH14G-42.8-1.2	14.40-15.35	42.8	1.2
SPFH14G-45.3-1.6	14.40-15.35	45.3	0.9
SPFH14G-47.3-2.0	14.40-15.35	47.3	0.7

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD14G-36.6-0.6	14.40-15.35	36.6	2.4
SPFHD14G-42.3-1.2	14.40-15.35	42.3	1.2
SPFHD14G-45.1-1.6	14.40-15.35	45.1	0.9

General Specifications:

- *Input Flange = FBP120 OR FBP140
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

17.70-19.70 GHz Antennas

Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF17G-38.4-0.6	17.70-19.70	38.4	1.9
SPF17G-44.4-1.2	17.70-19.70	44.4	0.9
SPF17G-46.9-1.6	17.70-19.70	46.9	0.7

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD17G-38.2-0.6	17.70-19.70	38.2	1.9
SPFD17G-44.2-1.2	17.70-19.70	44.2	0.9
SPFD17G-46.7-1.6	17.70-19.70	46.7	0.7

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH17G-32.8-0.3	17.70-19.70	32.8	3.7
SPFH17G-38.8-0.6	17.70-19.70	38.8	1.9
SPFH17G-44.8-1.2	17.70-19.70	44.8	0.9
SPFH17G-47.3-1.6	17.70-19.70	47.3	0.7

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD17G-38.6-0.6	17.70-19.70	38.6	1.9
SPFHD17G-44.6-1.2	17.70-19.70	44.6	0.9
SPFHD17G-47.1-1.6	17.70-19.70	47.1	0.7

General Specifications:

- *Input Flange = FBP120 OR FBP140
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

21.20-23.60 GHz Antennas

Standard Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPF21G-40-0.6	21.20-23.60	40.0	1.6
SPF21G-46-1.2	21.20-23.60	46.0	0.8
SPF21G-48.5-1.6	21.20-23.60	48.5	0.6

Standard Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFD21G-39.8-0.6	21.20-23.60	39.8	1.6
SPFD21G-45.8-1.2	21.20-23.60	45.8	0.8
SPFD21G-48.3-1.6	21.20-23.60	48.3	0.6

High Performance, Single Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFH21G-34.4-0.3	21.20-23.60	34.4	3.1
SPFH21G-40.4-0.6	21.20-23.60	40.4	1.6
SPFH21G-46.4-1.2	21.20-23.60	46.4	0.8
SPFH21G-48.9-1.6	21.20-23.60	48.9	0.6

High Performance, Dual Polarized, Front Feed

Model#	Frequency Range - GHz	Mid Band Gain - dBi	3dB BW
SPFHD21G-40.2-0.6	21.20-23.60	40.2	1.6
SPFHD21G-46.2-1.2	21.20-23.60	46.2	0.8
SPFHD21G-48.7-1.6	21.20-23.60	48.7	0.6

General Specifications:

- *Input Flange = FBP120 OR FBP140
- *Standard Performance Antennas have no shield, high performance antennas have a cylindrical shield
- *Radome is available for high performance antennas.
- *Options: hanger mounting, platform mounting.

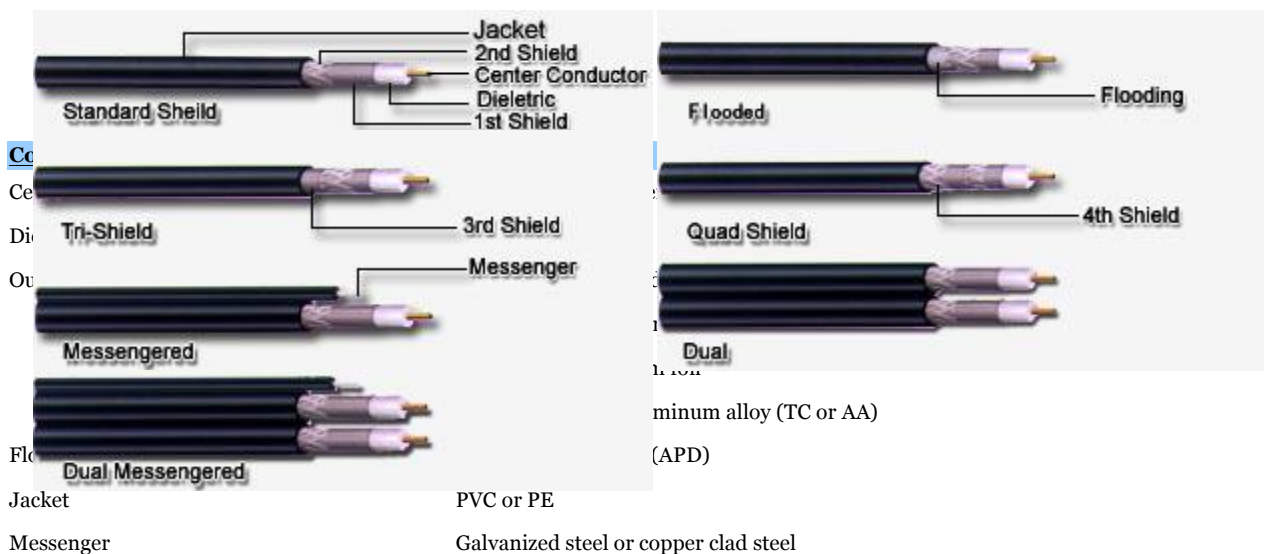
Mechanical Specifications:

- *Normal Wind Load: 35 m/s
- *Wind Survival: 55 m/s
- *Operating Temperature: -40°C ~ + 55°C

Cable

Drop Cable

Drop cable includes the **RG59**, **RG6**, **RG7** and **RG11** series. The outer conductor (braiding type) for each series has double shield (standard shield), tri-shield and quad shield. The double shield is mainly used for CATV networks below 1000MHz and satellite ground receiving systems below 3000MHz. Tri-shield and quad shield are applied to HFC networks as drop cable.



Packing Information

RG59:	100m coil, 5 coils in outer carton box=500m
RG6 & RG7:	1000ft plywood drum, 1 drum in outer carton box=1000ft 100m coil, 5 coils in outer carton box=500m
RG11:	1000ft plywood drum, 1 drum in outer carton box=1000ft 300m coil, 1 coil in outer carton box=300m 1000ft plywood drum, 1 drum in outer carton box=1000ft

Drop Cable RG59 Series

Physical Dimensions

Component		Standard Shield mm	Tri Shield mm	Quad Shield mm
Center Conductor		0.81	0.81	0.81
Dielectric		3.66	3.66	3.66
Outer Conductor		4.53	4.66	5.38
Jacket		6.10	6.20	6.73
Jacket Wall Thickness		0.80	0.76	0.75
Messenger	Single	1.30	1.30	1.30
	Dual	1.83	1.83	1.83

Mechanical Characteristics

Minimum Breaking Strength of Messenger	single	82kgf
	dual	166kgf
Dielectric Adhesion		>20N/5cm

Notes:

1. The conductivity should be more than 23% when CCS is used as inner conductor.
2. 60% coverage for inner shield, 42% coverage for outer shield.

Electrical Characteristics

Capacitance		50±3.0 nf/km
Impedance		75±3 ohms
Velocity of Propagation		85%
Shielding Effectiveness	55MHz	≥60dB
	300MHz	≥70dB
	1000MHz	≥70dB
Return Loss (100% swept)	1~470MHz	≥22dB
	470~1000MHz	≥20dB
	1000~2200MHz	≥18dB

Attenuation (20°)

For CATV		For Satellite	
Frequency(MHz)	Maximum (dB/100m)	Frequency (MHz)	Maximum (dB/100M)
5	2.82	1	1.15
55	6.73	10	3.61
83	8.04	50	5.70
187	11.81	100	8.20
211	12.47	200	11.61
250	13.45	400	16.73

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For CATV		For Satellite	
Frequency(MHz)	Maximum (dB/100m)	Frequency (MHz)	Maximum (dB/100M)
300	14.60	700	22.13
350	15.75	900	27.37
400	16.73	1000	28.85
450	17.72	1200	31.61
500	18.70	1450	34.78
550	19.52	1800	38.72
600	20.34	2200	42.78
750	22.87		
865	24.67		
1000	26.64		

Drop Cable RG6 Series

Physical Dimensions

Component		Standard Shield mm	Tri Shield mm	Quad Shield mm
Center Conductor		1.02	1.02	1.02
Dielectric		4.57	4.57	4.57
Outer Conductor		5.44	5.60	6.32
Jacket		6.91	7.06	7.62
Jacket Wall Thickness		0.76	0.76	0.75
Messenger	single	1.30	1.30	1.30
	dual	1.83	1.83	1.83

Mechanical Characteristics

Minimum Breaking Strength of Messenger	single	82kgf
	dual	166kgf
Dielectric Adhesion		>20N/5cm

Electrical Characteristics

Capacitance		50±3.0 nf/km
Impedance		75±3.0 ohms
Velocity of Propagation		85%
Shielding Effectiveness	55MHz	≥60dB
	300MHz	≥70dB
	1000MHz	≥70dB
Return Loss (100% swept)	1~470MHz	≥22dB
	470~1000MHz	≥20dB
	1000~2200MHz	≥18dB

Notes:

1. The conductivity should be more than 23% when CCS is used as inner conductor.
2. 60% coverage for inner shield, 42% coverage for outer shield.

Attenuation (20°)

For CATV		For Satellite	
Frequency (MHz)	Maximum (dB/100m)	Frequency (MHz)	Maximum (dB/100M)
5	1.90	1	0.82
55	5.25	10	2.30
83	6.40	50	4.79
187	9.35	100	6.40
211	10.00	200	8.96
250	10.28	400	12.47
300	11.64	700	17.06
350	12.63	900	19.36

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For CATV		For Satellite	
Frequency (MHz)	Maximum (dB/100m)	Frequency (MHz)	Maximum (dB/100M)
400	13.61	1000	20.67
450	14.43	1200	22.31
500	15.09	1450	24.93
550	16.08	1800	26.90
600	16.73	2200	32.15
750	18.54		
865	20.01		
1000	21.49		

Drop Cable RG7 Series

Physical Dimensions

Component		Standard Shield mm	Tri Shield mm	Quad Shield mm
Center Conductor		1.30	1.30	1.30
Dielectric		5.72	5.72	5.72
Outer Conductor		6.59	6.74	7.46
Jacket		8.08	8.20	8.59
Jacket Wall Thickness		0.76	0.75	0.70
Messenger	single	1.83	1.83	1.83
	dual	2.72	2.72	2.72

Mechanical Characteristics

Minimum Breaking Strength of Messenger	single	166kgf
	dual	816kgf
Dielectric Adhesion		>20N/5cm

Electrical Characteristics

Capacitance		50±3.0 nf/km
Impedance		75±3.0 ohms
Velocity of Propagation		85%
Shielding Effectiveness	55MHz	≥60dB
	300MHz	≥70dB
	1000MHz	≥70dB
Return Loss (100% swept)	1~470MHz	≥22dB
	470~1000MHz	≥20dB
	1000~2200MHz	≥18dB

Notes:

1. The conductivity should be more than 23% when CCS is used as inner conductor.
2. 60% coverage for inner shield, 42% coverage for outer shield.

Attenuation (20° C)

Frequency (MHz)	Maximum (dB/100m)	Frequency (MHz)	Maximum (dB/100M)
5	1.54	400	10.73
55	4.10	450	11.35
83	4.92	500	12.04
187	7.28	550	12.63
211	7.74	600	13.28
250	8.40	750	14.99
300	9.25	865	16.17
350	10.01	1000	17.45

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Drop Cable RG11 Series

Physical Dimensions

Component	Standard Shield mm	Tri Shield mm	Quad Shield mm
Center Conductor	1.63	1.63	1.63
Dielectric	7.11	7.11	7.11
Outer Conductor	7.98	8.11	8.83
Jacket	10.03	10.03	10.29
Jacket Wall Thickness	1.05	0.96	0.75
Messenger	single	1.83	1.83
	dual	2.77	2.77

Mechanical Characteristics

Minimum Breaking Strength of Messenger	single	166kgf
	dual	816kgf
Dielectric Adhesion		>20N/5cm

Electrical Characteristics

Capacitance	50±3.0 nf/km	
Impedance	75±2.5 ohms	
Velocity of Propagation	85%	
Shielding Effectiveness	55MHz	≥60dB
	300MHz	≥70dB
	1000MHz	≥70dB
Return Loss (100% swept)	1~470MHz	≥22dB
	470~1000MHz	≥20dB
	1000~2200MHz	≥18dB

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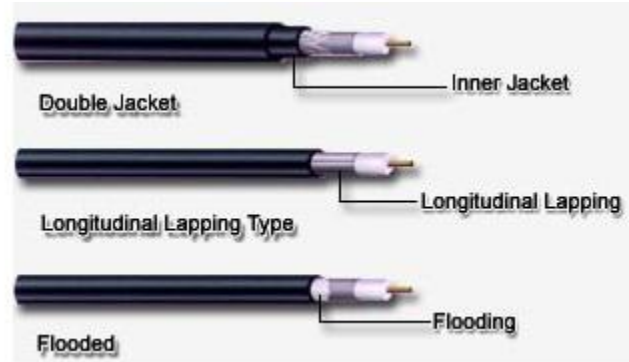
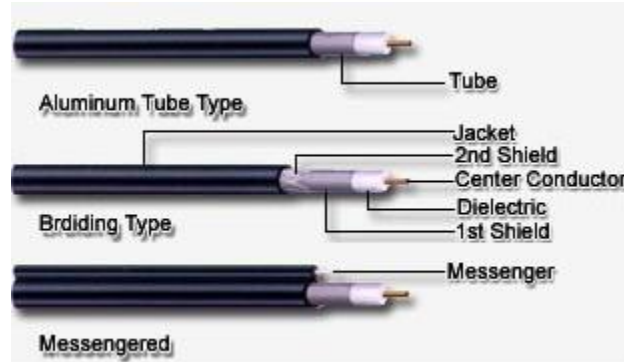
Attenuation (20° C)

For CATV		For Satellite	
Frequency (MHz)	Maximum (dB/100m)	Frequency (MHz)	Maximum (dB/100M)
5	1.25	1	0.66
55	3.15	10	1.48
83	3.87	50	3.12
187	5.74	100	4.43
211	6.23	200	6.40
250	6.72	400	9.91
300	7.38	700	14.27
350	7.94	900	17.03
400	8.53	1000	18.34
450	9.02	1450	21.95
500	9.51	1800	24.51
550	9.97	2200	27.20
600	10.43		
750	11.97		
865	13.05		
1000	14.27		

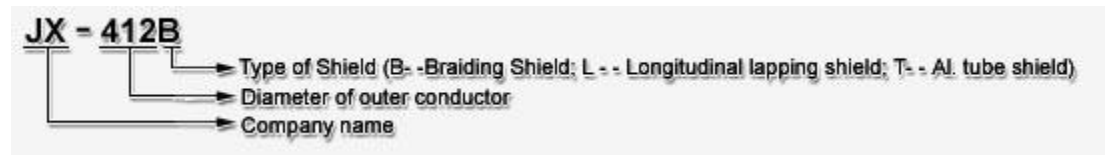
Trunk Cable

Trunk cable mainly includes the **JX-412**, **JX-500** and **JX-540** series. Among them, the **JX-412** and **JX-500** series have braiding type, longitudinal lapping type, and seamless aluminum tube type as conductor. They are applied to HFC networks as trunk cable and distribution cable.

Construction and Material



Type Designation



Construction		Material	Packing Information
Center Conductor		Bare copper or copper clad aluminum (BC or CCA)	
Dielectric		Foamed PE (FPE)	
Outer Conductor			
Braiding Type	1 st Shield	Bonded or no-bonded aluminum foil (AL foil)	
	2 nd Shield	Aluminum alloy or tinned copper (AA or TC)	
Longitudinal Lapping Type		Aluminum polyester laminated tape (AP tape)	
Tube Type		Seamless aluminum tube (SAT)	
Flooding		Flooding compound (APD)	
Jacket		PE or PVC	
Messenger		Galvanized steel	
412 & 500:	325m or 500m or 750m or 1000m plywood drum		
540:	500m or 750m plywood drum		

Trunk Cable JX-412 Series

Physical Dimensions

Component	JX-412B (mm)	JX-412L (mm)	JX-412T (mm)
Center Conductor	2.26	2.26	2.26
Dielectric	9.20	9.20	9.20
Outer Conductor	10.07	10.00	10.30
Outer Conductor Thickness	--	--	0.60
Jacket	12.30	12.30	12.30
Jacket Wall Thickness	1.10	1.15	1.05
Messenger	2.77	2.77	2.77

Mechanical Characteristics

Minimum Bending Radius (Jacket)		
JX-412B	6.0in.	15cm
JX-412L	6.0in.	25cm
JX-412T	6.0in.	25cm
Minimum Breaking Strength of Messenger		
1800lbs.	816kgf	
Dielectric Adhesion	>20N/5cm	

Electrical Characteristics

Capacitance	50±3.0 nf/km			
Impedance	75±2.5 ohms			
Velocity of Propagation	87%			
Shielding Effectiveness				
	JX-412B	JX-412L	JX-412T	
55MHz ≥	60dB	85dB	100dB	
300MHz ≥	60dB	85dB	100dB	
1000MHz ≥	60dB	85dB	100dB	
Return Loss (100% swept)				
	JX-412B	JX-412L	JX-412T	
1~470MHz ≥	22dB	20dB	22dB	
470~1000MHz ≥	20dB	18dB	20dB	

Attenuation (20°C, ≤dB/100m)

Frequency (MHz)	JX-412B	JX412-L	JX-412T
5	0.66	0.66	0.66
55	2.10	2.10	2.10
211	4.43	4.43	4.43
250	4.80	4.80	4.80
270	4.99	4.99	4.99
300	5.35	5.35	5.35
325	5.58	5.58	5.58
350	5.84	5.84	5.84
400	6.24	6.24	6.24
450	6.73	6.73	6.73
500	7.06	7.06	7.06

Frequency (MHz)	JX-412B	JX412-L	JX-412T
550	7.39	7.39	7.39
600	7.75	7.75	7.75
750	8.70	8.10	8.10
865	9.32	9.32	9.32
1000	10.10	10.10	10.10

Notes:

1. Nominal copper thickness for CCA (kg/km):10% CCA
2. The braiding coverage must be above 80% if you select braiding shield.

Trunk Cable_JX-500 SERIES

Physical Dimensions

Component	JX-500B mm	JX-500L mm	JX-500T mm
Center Conductor	2.77	2.77	2.77
Dielectric	11.43	11.43	11.43
Outer Conductor	12.30	12.20	12.70
Outer Conductor Thickness	--	--	0.65
Jacket	14.22	14.22	14.22
Jacket Wall Thickness	1.00	1.00	0.76
Messenger	2.77	2.77	2.77

Mechanical Characteristics

Minimum Bending Radius (Jacket)		
JX-500B	6.0in.	22cm
JX-500L	6.0in.	30cm
JX-500T	6.0in.	30cm
Minimum Breaking Strength of Messenger		
	1800lbs.	816kgf
Dielectric Adhesion	>20N/5cm	

Electrical Characteristics

Capacitance		50±3.0 nf/km		
Impedance		75±2.5 ohms		
Velocity of Propagation		87%		
Shielding Effectiveness				
		JX-500B	JX-500L	JX-500T
55MHz	≥	60dB	85dB	100dB
300MHz	≥	70dB	90dB	110dB
1000MHz	≥	70dB	90dB	110dB
Return Loss (100% swept)				
		JX-500B	JX-500L	JX-500T
1~470MHz	≥	22dB	20dB	22dB
470~1000MHz	≥	20dB	18dB	20dB

Attenuation (20°C, ≤dB/100m)

Frequency(MHz)	JX-500B	JX500-L	JX-500T
5	0.52	0.52	0.52
55	1.77	1.77	1.77
211	3.58	3.58	3.58
250	3.94	3.94	3.94
270	4.07	4.07	4.07
300	4.30	4.30	4.30
325	4.49	4.49	4.49
350	4.69	4.69	4.69
400	5.02	5.02	5.02
450	5.35	5.35	5.35
500	5.67	5.67	5.67
550	5.97	5.97	5.97
600	6.27	6.27	6.27
750	7.09	7.09	7.09
865	7.68	7.68	7.68
1000	8.27	8.27	8.27

Notes:

1. Nominal copper thickness for CCA (kg/km):10% CCA
2. The braiding coverage must be above 80% if you select braiding shield.

Trunk Cable JX-540 SERIES

Physical Dimensions

Component	JX-540B (mm)	JX-540L (mm)	JX-540T (mm)
Center Conductor	3.15	3.15	3.15
Dielectric	13.00	13.00	13.00
Outer Conductor	13.87	13.75	14.40
Outer Conductor Thickness	--	--	0.70
Jacket	15.90	15.90	15.90
Jacket Wall Thickness	1.00	1.00	0.75
Messenger	2.77	2.77	2.77

Mechanical Characteristics

Minimum Bending Radius (Jacket)		
JX-540B	6.0in.	16cm
JX-540L	6.0in.	32cm
JX-540T	4.0in.	32cm
Minimum Breaking Strength of Messenger		
1800lbs.	816kgf	
Dielectric Adhesion	>20N/5cm	

Electrical Characteristics

Capacitance	50±3.0 nf/km		
Impedance	75±2.0 ohms		
Velocity of Propagation	88%		
Shielding Effectiveness			
	JX-540B	JX-540L	JX-540T
55MHz	≥ 60dB	85dB	100dB
300MHz	≥ 70dB	90dB	110dB
1000MHz	≥ 70dB	90dB	110dB
Return Loss (100% swept)			
	JX-540B	JX-540L	JX-540T
1~470MHz	≥ 22dB	20dB	22dB
470~1000MHz	≥ 20dB	18dB	20dB

Attenuation (20°C, ≤dB/100m)

Frequency (MHz)	JX-540B	JX540-L	JX-540T
5	0.46	0.46	0.46
55	1.54	1.54	1.54
211	3.12	3.12	3.12
250	3.38	3.38	3.38
270	3.51	3.51	3.51
300	3.71	3.71	3.71
325	3.87	3.87	3.87
350	4.03	4.03	4.03
400	4.33	4.33	4.33
450	4.59	4.59	4.59
500	4.89	4.89	4.89
550	5.12	5.12	5.12
600	5.38	5.38	5.38
750	6.07	6.07	6.07
865	6.56	6.56	6.56
1000	7.12	7.12	7.12

Notes:

1. Nominal copper thickness for CCA (kg/km):10% CCA
2. The braiding coverage must be above 80% if you select braiding shield.

50 Ohm Foamed RF Coaxial Cable

Base Station Feeder Cable

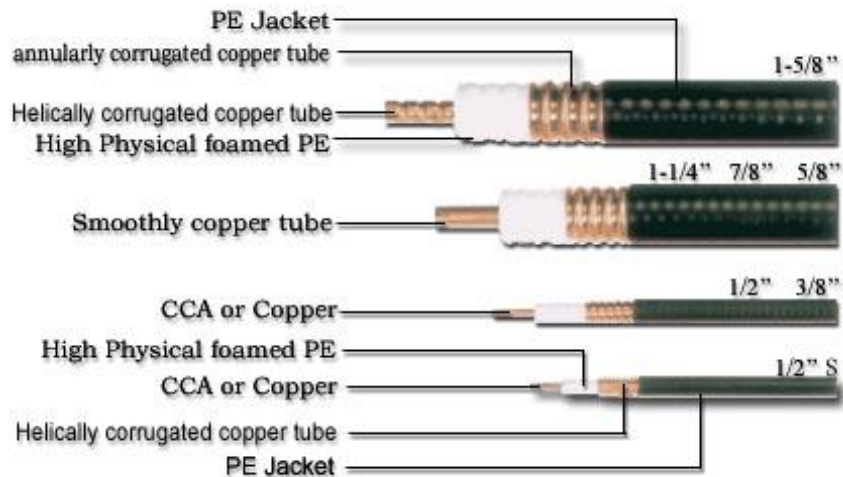


Product Description

Carolina Microwave Associates 50 ohms corrugated copper tube coaxial cable is made on advanced physical foaming insulation production line and argon arc welding, corrugating and slotting production line. Its operation is strictly in compliance with ISO 9001 quality assurance system for quality control of product.

Carolina Microwave Associates 50 ohms corrugated copper tube coaxial cable is mainly used for base station which include wireless mobile communication, cellular, microwave and broadcast applications as connection of transmitter, receiver and antenna and also connection between wireless communication equipments or other low loss and SWR signal transmission at high frequency. The cables have CCA or solid copper or copper tube conductor, a dielectric of foamed PE with 80% foaming degree which is finished on a three layers co-extruder and consist of skin-foam-skin, outer conductor consisting of corrugated copper tube with good properties such as low attenuation, low VSWR, low temperature, corrosion resistance, good water longitudinally sealed and high power capacity and black weather or flame retardant PE jacket.

Technical Parameters



50 Ohm Feeder Cable

Construction (Diameter: mm)

Item	1-5/8"	1-1/4"	7/8"	1/2"	3/8"	1/2"S	1/4"S
Inner conductor	17.27	13.10	9.00	4.83	3.12	3.56	1.90
Dielectric	42.00	32.00	22.00	12.00	8.00	9.00	5.00
Outer conductor	46.48	35.80	24.94	13.84	9.53	12.19	6.35
Jacket	51.20	40.70	28.80	16.40	11.70	14.70	8.80

Performance

Item	1-5/8"	1-1/4"	7/8"	1/2"	3/8"	1/2"S	1/4"S
Min. bending radius (mm) [many times]	1020	760	500	250	200	110	50
Operating temperature (°C)	Standard jacket						
	Halogen-free/Fire-retardant jacket						
Construction weight (kg/m)	Standard jacket						
	Halogen-free/Fire-retardant jacket						
Flat plate crush resistance (kg/mm ²)	2.7	2.4	1.8	2.0	1.7	1.7	1.7
Max. pulling (kg)	250	260	147	113	60	65	35
DC resistance (Ω/km)	Inner conductor (CCA)						
	Outer conductor						
Insulation resistance (MΩ/Km)	3000	10000					
Dielectric strength (DC.V)	15000	9000	6000	4000	2500	2500	2000
Velocity of propagation (%)	88	88	88	88	81	81	84
Peak power rating (KW)	315	205	91	40	13.2	15.6	9.1
Max. operating frequency (MHZ)	5000	3300	5000	8000	13000	10000	10000
Characteristic impedance (Ω)	50±2						
V.S.W.R (1M~3GHZ, Max)	1.15	1.20	1.15	1.15	1.15	1.15	1.15

Attenuation (@20°C) db/100m

Frequency	1-5/8"	1-1/4"	7/8"	1/2"	3/8"	1/2"S	1/4"S
30MHz	0.36	0.44	0.64	1.17	2.11	1.80	3.30
100MHz	0.67	0.83	1.19	2.17	3.90	3.33	5.90
150MHz	0.84	1.03	1.47	2.67	4.81	4.10	8.07
450MHz	1.53	1.86	2.65	4.75	8.57	7.31	14.22
824MHz	2.17	2.62	3.69	6.56	11.88	10.11	19.51
890MHz	2.27	2.75	3.86	6.84	12.37	10.52	20.34
960MHz	2.38	2.86	4.02	7.12	12.89	11.03	21.18
1000MHz	2.43	2.94	4.12	7.28	13.17	11.20	21.62
1700MHz	3.35	4.01	5.56	9.74	17.22	15.21	28.77
1800MHz	3.47	4.15	5.75	10.10	18.32	15.60	29.60
2000MHz	3.71	4.43	6.11	10.70	19.40	16.51	31.33
2500MHz	4.07	4.85	6.63	11.60	20.99	17.92	33.60
3000MHz	4.31	5.73	7.81	13.51	24.45	21.03	38.37

Average power rating (@Ambient 40°C ,Inner conductor 100°C) KW

Frequency	1-5/8"	1-1/4"	7/8"	1/2"	3/8"	1/2"S	1/4"S
30MHz	30.52	22.12	14.18	6.26	3.93	4.79	2.86
100MHz	16.40	11.73	7.63	3.43	2.13	2.59	0.92
150MHz	13.08	9.45	6.17	2.79	1.72	2.10	0.83
450MHz	6.95	5.23	3.43	1.56	0.97	1.18	0.62
824MHz	4.80	3.72	2.46	1.13	0.70	0.85	0.47
890MHz	4.62	3.54	2.35	1.08	0.67	0.82	0.42
960MHz	4.43	3.40	2.26	1.05	0.64	0.78	0.41
1000MHz	4.31	3.31	2.20	1.02	0.63	0.77	0.40
1700MHz	3.12	2.43	1.63	0.76	0.47	0.57	0.36
1800MHz	2.98	2.35	1.58	0.74	0.45	0.55	0.35
2000MHz	2.76	2.20	1.49	0.70	0.43	0.52	0.33
2500MHz	2.51	2.01	1.35	0.64	0.40	0.48	0.30
3000MHz	2.37	1.70	1.16	0.55	0.34	0.41	0.27

50 Ohm Radiating Coaxial Cable

Carolina Microwave Associates 50 ohms radiating coaxial cable is mainly used in tunnels, mines, subways, high buildings and highways where there is no direct or good radio wave as signal transmission and transmitting and receiving antennas duplex functions. The cable is characterized with low attenuation, low VSWR, high power capacity, good signal coupling and corrosion resistance.

The cable is manufactured on argon arc welding, corrugating and slotting production line with the most advanced technology by slotting the holes along outer conductor axis. So the evenly-distributed relatively strong radiating signal in the close vicinity of the cable along it's axis makes it possible for signal transmission, across long distances in uncovered areas.



Construction (mm)

Item		1/2"	7/8"	1-1/4"	1-5/8"
Inner conductor	Material	Copper clad aluminum/ smoothly copper tube		smoothly copper tube/ helically corrugated copper tube	
	Diameter	4.83	9.00	13.10	17.27
Dielectric	Material	Foamed polyethylene			
	Diameter	12.00	22.00	32.00	42.00
Outer conductor	Material	Annularly corrugated copper tube			
	Diameter	13.84	24.94	35.80	46.50
Jacket	Material	PE			
	Diameter	16.40	28.80	40.70	51.20

Performance

Item		1/2"	7/8"	1-1/4"	1-5/8"
Min. bending radius (mm)	[many times]	250	500	760	1020
Operating temperature (°C)	Standard jacket	-40°C ~ +70°C			
	Halogen-free/Fire-retardant jacket	-25°C ~ +70°C			
Construction weight (kg/m)	Standard jacket	242	595	1050	1525
	Halogen-free/Fire-retardant jacket	261	635	1130	1615
Flat plate crush resistance (kg/mm ²)					
Max. pulling (kg)		45	90	150	180
DC resistance (Ohm/km)	Inner conductor (CCA)	1.65	1.09	0.69	0.88
	Outer conductor	2.38	1.20	0.57	0.42
Insulation resistance (M Ohm/Km)		10000			
Dielectric strength (DC.V)		4000	6000	9000	11000
Velocity of propagation (%)		88	88	88	87
Peak power rating (kw)					
Max. operating frequency (MHZ)		3000			
Characteristic impedance (Ω)		50±2			
V.S.W.R (1M~3GHZ, Max)		1.2			

Attenuation (@20°C) db/100m

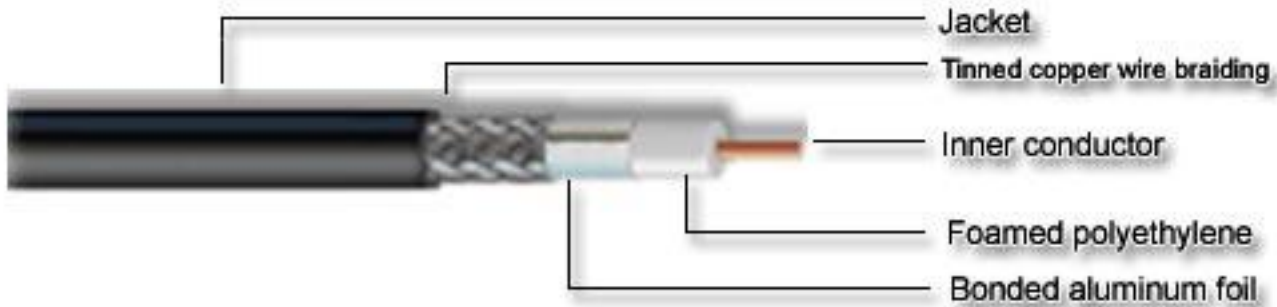
Frequency	1/2"	7/8"	1-1/4"	1-5/8"
150MHz	3.3	1.8	1.3	0.8
450MHz	6.6	3.6	3.0	2.0
900MHz	9.5	5.3	4.3	2.7

Frequency	1/2"	7/8"	1-1/4"	1-5/8"
1800MHz	13.1	7.6	5.6	4.4
2400MHz	15.7	9.2	6.9	5.6

Average power rating (@Ambient 40°C, Inner conductor 100°C) KW

Frequency	1/2"	7/8"	1-1/4"	1-5/8"
150MHz	58	62	64	71
450MHz	63	72	75	80
900MHz	68	72	77	79
1800MHz	73	84	84	89
2400MHz	73	76	76	89

D-FB Series



Construction (Diameter: mm)

Item	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
Inner conductor	1.42	1.8	2.6	2.8	3.5	4.4
Dielectric	3.80	5.0	7.3	7.8	10.0	12.4
Outer conductor	3.94	5.7	8.2	8.8	11.0	13.6
Jacket	6.10	7.5	9.8	11.1	13.0	15.6

Performance

Item		4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
Min. bending radius (mm)		30	35	45	55	65	75
Operating temperature (°C)		-25 °C~ + 70°C~					
Installation temperature (°C)		-25 °C~ + 70°C~					
Nominal weight (kg/m)		0.05	0.08	0.10	0.16	0.25	0.35
Flat plate crush resistance (kg/mm²)		0.36	0.54	0.71	0.80	0.95	1.55
Tensile strength (kg)		36.3	54.5	72.6	86	125	150
DC resistance (Ohm/km)	Inner conductor (CCA)	10.50	6.91	3.31	2.86	1.82	1.15
	Outer conductor	12.76	10.5	11.1	9.25	5.3	3.4
Insulation resistance (M Ohm/Km)		5000					
Dielectric strength (kv)		1.6					
Velocity of propagation (%)		82	82	82	83	81	81
Peak power rating (kw)		5.2	8.8	15	16	25	38
Cutoff frequency (GHZ)		30	23	15.8	15.1	11.9	9.6

Item	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
Characteristic impedance (Ohm)	50					
V.S.W.R	≤1.3					
Voltage withstand (VDC)	1000	2000	2500	2500	3000	4000
Capacitance (pF/m)	81	81	84	84	84	84
Inductance (μH/m)	0.20	0.20	0.21	0.21	0.21	0.21
Shielding effectiveness	>90dB					
Phase stability	<18ppm/°C					

Attenuation(@20°C) db/100m

Frequency	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
150MHz	10.0	7.8	5.4	5.2	4.1	3.6
200MHz	11.5	9.1	6.3	6.1	4.8	4.2
280MHz	12.9	10.9	7.5	7.3	5.5	4.6
350MHz	16.5	12.2	8.4	8.2	6.2	5.2
400MHz	17.6	13.0	9.0	8.6	7.0	6.0
800MHz	23.6	18.9	12.8	12.3	10.0	8.3
900MHz	24.5	20.0	14.1	13.0	11.0	9.3
1200MHz	28.3	24.0	16.8	16.5	13.2	10.7
1500MHz	33.5	27.2	19.2	18.7	15.3	11.8
1900MHz	37.7	31.3	22.4	21.7	17.2	13.8
2000MHz	38.7	32.5	23.2	22.5	17.8	14.4
2400MHz	42.6	35.8	25.7	24.8	19.6	15.9
3000MHz	48.6	40.9	29.5	28.4	22.5	18.3

Average power rating(@Ambient 40°, Inner conductor 100°C) KW

Frequency	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
150MHz	0.64	0.90	1.37	1.37	1.85	2.06
200MHz	0.56	0.77	1.16	1.16	1.58	1.76
280MHz	0.50	0.64	0.99	0.97	1.38	1.61
350MHz	0.39	0.57	0.87	0.87	1.23	1.42
400MHz	0.36	0.54	0.79	0.83	1.09	1.23
800MHz	0.27	0.37	0.55	0.58	0.76	0.89
900MHz	0.26	0.35	0.50	0.55	0.69	0.80
1200MHz	0.23	0.29	0.42	0.43	0.58	0.69
1500MHz	0.19	0.26	0.37	0.38	0.50	0.63
1900MHz	0.17	0.22	0.32	0.33	0.44	0.54
2000MHz	0.16	0.21	0.31	0.32	0.43	0.53
2400MHz	0.15	0.20	0.28	0.29	0.39	0.47
3000MHz	0.13	0.17	0.24	0.25	0.34	0.40

Solid PE Insulated Coaxial Cable



RG Series Coaxial Cable

This cable is mainly used for transmission of video signals from fixed and mobile wireless communication equipment or similar electronic devices.

Reference Standard: MIL-C-17G

Type	UL style	Conductor		Insulation		Braid Shield		
		No./mm	Material	Diameter mm	Material	1 st No./mm	2 nd No./mm	Material
RG-5/U	-	1/1.29	BC	4.7	LDPE	16/9/0.16	24/8/0.16	BC
RG-6/U	1354	1/1.024	CCS	4.57	LDPE	16/9/0.16	16/8/0.16	TC
RG-7/U	-	1/0.914	BC	6.35	LDPE	24/7/0.18	-	BC
RG-8/U	1354	7/0.724	BC	7.24	LDPE	24/8/0.8	-	BC
RG-8A/U	1354	7/0.724	BC	7.24	LDPE	24/8/0.18	-	BC
RG-11/U	1354	7/0.404	TC	7.24	LDPE	24/8/0.18	-	BC
RG-11A/U	1354	7/0.404	TC	7.24	LDPE	24/8/0.18	-	BC
RG-13/U	1354	7/0.404	TC	7.11	LDPE	24/9/0.16	24/8/0.16	BC
RG-13A/U	1354	7/0.404	TC	7.11	LDPE	24/9/0.16	24/8/0.16	BC
RG-14/U	-	1/2.59	BC	9.40	LDPE	24/10/0.18	24/8/0.18	BC
RG-14A/U	-	1/2.59	BC	9.40	LDPE	24/10/0.18	24/8/0.18	TC
RG-15/U	-	1/1.45	CCS	9.40	LDPE	24/10/0.18	24/8/0.18	BC
RG-29/U	1354	1/0.813	BC	2.95	LDPE	16/7/0.127	-	BC
RG-34/U	-	7/0.724	BC	11.6	LDPE	24/9/0.16	-	BC
RG-34B/U	-	7/0.632	BC	11.7	LDPE	24/10/0.18	-	BC
RG-54/VU	-	7/0.386	BC	4.52	LDPE	16/9/0.16	-	BC
RG-55/U	-	1/0.813	BC	2.90	LDPE	16/7/0.127	16/8/0.127	BC
RG-58/U	1354	1/0.813	BC	2.95	LDPE	16/8/0.127	-	TC
RG-58A/U	1354	19/0.18	TC	2.95	LDPE	16/8/0.127	-	TC
RG-58C/U	1354	19/0.18	TC	2.95	LDPE	16/8/0.127	-	TC
RG-59/U	1354	1/0.643	CCS	3.71	LDPE	16/7/0.16	-	BC
RG-59A/U	1354	1/0.643	CCS	3.71	LDPE	16/7/0.16	-	TC
RG-59B/U	-	1/0.584	CCS	3.71	LDPE	16/7/0.16	-	BC
RG-62/U	1354	1/0.643	CCS	3.71	LDPE	16/7/0.16	-	BC
RG-62A/U	-	1/0.613	CCS	3.71	LDPE	16/7/0.16	-	BC
RG-63/U	-	1/0.643	CCS	7.24	LDPE	24/8/0.18	-	BC
RG-63B/U	-	1/0.643	CCS	7.24	LDPE	24/8/0.18	-	BC
RG-71/U	1354	1/0.643	CCS	3.71	LDPE	16/7/0.16	16/8/0.127	BC
RG-89/U	-	1/0.643	CCS	7.24	LDPE	16/12/0.18	-	BC
RG-122/U	1354	27/0.13	TC	2.44	LDPE	16/6/0.127	-	BC
RG-133A/U	-	1/0.645	BC	7.2	LDPE	24/8/0.18	-	BC
RG-174/U	1354	7/0.16	CCS	1.52	LDPE	16/5/0.10	-	TC
RG-213/U	-	7/0.752	BC	7.24	LDPE	24/8/0.18	-	BC
RG-216/U	-	7/0.404	TC	7.24	LDPE	24/9/0.16	24/8/0.16	BC
RG-217/U	-	1/2.69	BC	9.4	LDPE	24/10/0.18	24/8/0.18	BC

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Type	Jacket		Impedance	Capacitance	Attenuation
	Diameter mm	Material	Ohm	pf/m	(dB/km) 100 MHz
RG-5/U	8.4±0.20	PVC	52.5	93.5	85
RG-6/U	7.4±0.20	PVC	75	56.8	69
RG-7/U	9.4±0.20	PVC	94.5	41.0	66
RG-8/U	10.3±0.20	PVC	52	96.8	69
RG-8A/U	10.3±0.20	NC-PVC	52	96.8	69
RG-11/U	10.3±0.20	PVC	75	67.3	76
RG-11A/U	10.3±0.20	NC-PVC	75	67.3	76
RG-13/U	10.7±0.20	PVC	74	67.3	76
RG-13A/U	10.7±0.20	NC-PVC	74	67.3	76
RG-14/U	13.8±0.20	PVC	52	96.8	46
RG-14A/U	13.8±0.20	NC-PVC	52	96.8	46
RG-15/U	13.8±0.20	PVC	76	65.6	49
RG-29/U	4.7±0.15	PE	53.5	93.5	138
RG-34/U	15.9±0.25	PVC	71	70.5	46
RG-34B/U	16.0±0.25	NC-PVC	75	67.0	48
RG-54/VU	6.1±0.15	PE	58	85.8	187
RG-55/U	5.0±0.15	PE	50.5	93.6	138
RG-58/U	4.95±0.15	PVC	53.5	90.5	133
RG-58A/U	4.95±0.15	PVC	50	93.5	174
RG-58C/U	4.95±0.15	NC-PVC	50	93.5	174
RG-59/U	6.15±0.15	PVC	73	68.9	125
RG-59A/U	6.15±0.15	NC-PVC	73	68.9	125
RG-59B/U	6.15±0.15	NC-PVC	93	68.9	112
RG-62/U	6.15±0.15	PVC	93	44.3	102
RG-62A/U	6.15±0.15	NC-PVC	125	32.8	66
RG-63/U	10.3±0.20	PVC	125	32.8	66
RG-63B/U	10.3±0.20	NC-PVC	125	32.8	66
RG-71/U	6.4±0.15	PVC	93	44.3	102
RG-89/U	16.0±0.25	PVC	125	32.8	66
RG-122/U	4.06±0.15	NC-PVC	50	105	195
RG-133A/U	10.3±0.20	NC-PVC	95	53	76
RG-174/U	2.54±0.15	NC-PVC	50	110	259
RG-213/U	0.3±0.20	NC-PVC	50	100	69
RG-216/U	10.8±0.20	NC-PVC	75	67	88
RG-217/U	13.8±0.25	NC-PVC	50	100	50

JIS Series Coaxial Cable

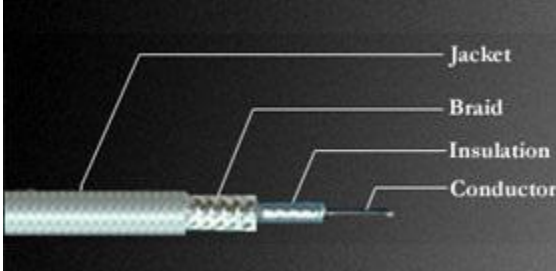
This cable is mainly used for transmission of video signals from fixed and mobile wireless communication equipment or similar electronic devices.

Reference Standard: JISC3501

Cable Type	Conductor		Insulation		Braid		Jacket Thickness	Overall Diameter	Characteristic Impedance 10MHz	Attenuation 10MHz	Conductor Resistance
	Material	No./mm	Material	Thickness	Material	C/N/mm	mm	mm	Ohms	db/km	Ω km
1.5C-2V	BC	1/0.26	LDPE	0.67	BC	16/5/0.1	0.4	2.9±0.1	75±3	96	968
2.5C-2V	BC	1/0.4	LDPE	1.00	TC	16/6/0.127	0.5	3.9±0.1	75±3	52	145
3C-2V	BC	1/0.5	LDPE	1.30	BC	16/7/0.127	0.8	5.4±0.15	75±3	42	91.4
5C-2V	BC	1/0.8	LDPE	2.05	BC	16/9/0.14	0.9	7.4±0.15	75±3	27	35.9
7C-2V	BC	7/0.405	LDPE	3.05	BC	24/7/0.18	1.0	10.3±0.20	75±3	22	20.7
10C-2V	BC	7/0.50	LDPE	3.95	BC	24/9/0.16	1.5	13.0±0.20	75±3	18	13.1
1.5D-2V	BC	7/0.18	LDPE	0.53	BC	16/5/0.1	0.4	2.9±0.1	50±3	85	110
2.5D-2V	BC	1/0.80	LDPE	0.95	BC	16/7/0.12	0.5	4.3±0.1	50±3	45	35.9
3D-2V	BC	7/0.32	LDPE	1.00	BC	16/6/0.12	0.8	5.3±0.15	50±3	46	33.3
5D-2V	BC	1/1.40	LDPE	1.70	BC	24/7/0.12	0.9	7.3±0.15	50±3	27	11.7
8D-2V	BC	7/0.80	LDPE	2.70	TC	24/8/0.16	1.2	11.1±0.20	50±3	20	5.13
10D-2V	BC	1/2.90	LDPE	3.40	BC	24/10/0.20	1.2	13.1±0.20	50±3	14	2.67

Remark Insulation Resistance: 1000 M Ω -km

PTFE Insulated, FEP Jacket Coaxial Cable



RG/U No.	Conduct		Insulation		Braiding		Jacket		Cable O.D. mm	Nom. Imp. Ω	Nom. Vel. %	Nom. Cap. pF/m
	No./mm	Material	O.D. (mm)	Material	No. of Layer	Material	Color	Material				
142B/U	1/1.024	SC	2.95	PTFE	Double 96%	SC	Brown	FEP	4.95	50	69.5	95.8
178B/U	7/0.10	SC	0.84	PTFE	Single 96%	SC	Brown	FEP	1.80	50	69.5	95.8
179B/U	7/0.10	SC	1.60	PTFE	Single 96%	SC	Brown	FEP	2.54	75	69.5	64.0
180B/U	7/0.10	SC	2.59	PTFE	Single 96%	SC	Brown	FEP	3.61	95	69.5	49.2
187A/U	7/0.10	SC	1.60	PTFE	Single 96%	SC	White	PTFE	2.82	75	69.5	64.0
188A/U	7/0.17	SC	1.47	PTFE	Single 96%	SC	White	PTFE	2.74	50	69.5	95.8
195A/U	7/0.10	SC	2.59	PTFE	Single 96%	SC	White	PTFE	3.94	95	69.5	49.2
196A/U	7/0.10	SC	0.86	PTFE	Single 96%	SC	White	PTFE	2.03	50	69.5	93.5
316/U	7/0.17	SC	1.52	PTFE	Single 96%	SC	Brown	FEP	2.49	50	69.5	95.8
58/U	1/0.81	BC	2.72	FEP	Single 96%	Foil+SC	White	PVC	4.01	50	69.5	90.2
59/U	1/0.81	CCS	3.56	Foam FEP (skin-foam-skin)	Single 96%	A/P+SC	White	PVC	5.38	75	82	54.1
62/U	1/0.644	CCS	3.61	Semi-soild FEP	Single 96%	BC	White	PVC	5.08	93	85	42.0
62A/U	1/0.644	CCS	3.61	Foam FEP (skin-foam-skin)	Single 96%	A/P+SC	Black	PVC	5.08	93	85	42.0
405/U	1/0.51	SC	1.63	PTFE	Single 100%	SC+TC	-	-	-	50	69.5	96.8
402/U	1/0.91	SC	2.95	PTFE	Single 100%	SC+TC		TC	-	50	69.5	96

Fiber Optic Cable

Performance for Optical Fiber

Dimension

Type	Mode field diameter (μm)	Core efficiency area (μm^2)	Cladding diameter (μm)	Core/cladding concentricity error (μm)	cladding non-circularity (%)	Coating thickness (μm)	Min.sieving tension (N)
G.652	9.2 $\pm$ 0.4 (1310nm)	-	125 $\pm$ 1.0	$\leq$ 0.5	$\leq$ 1.0	245 $\pm$ 5	$\geq$ 8.6 (1% optical strain @100kpsi, hold time $\geq$ 1S)
G.655	9.2~10.0 (1550nm)	7.2 (1550nm)					

REMARK : G.652 -- SINGLE-MODE OPTICAL FIBER

G.655 -- Non-Zero Dispersion Displacement Single Mode Optical Fiber

Optical & Transmission Characteristics

Item	Attenuation		
	G.652		G.655
	1310nm	1550nm	1550nm
Class A (dB/km)	$\leq$ 0.36	$\leq$ 0.22	$\leq$ 0.22
Class B (dB/km)	$\leq$ 0.40	$\leq$ 0.25	$\leq$ 0.25

Attenuation Uniformity

G.652 : $\leq(\alpha \text{ mean} + 0.10\text{dB})/2$

G.655 : $\leq\alpha \text{ mean} + 0.10\text{dB}$

Attenuation Increase with Bending

Item	G.652		G.655
	1310nm	1550nm	1550nm
100 turns of fiber loosely wound with 50mm diameter Increased attenuation(dB)	$\leq$ 0.05	$\leq$ 0.10	$\leq$ 0.10

Dispersion

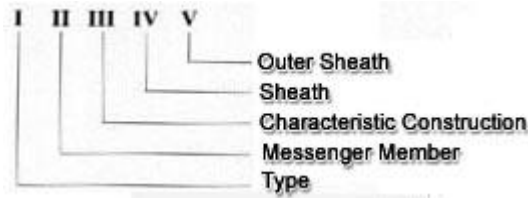
G.652	G.655
Zero dispersion wavelength : 1300~1322nm Zero dispersion slope(S_0) : $\leq$ 0.092ps/nm ² ·km Dispersion modulus : $\leq$ 3.5ps/nm·km(1285~1330nm) $\leq$ 18.0ps/nm·km(1550nm)	Dispersion(1530~1565nm) : 2.0ps/nm·km $\leq D(\lambda) \leq$ 6.0ps/nm·km Dispersion(1565~1625nm) 4.5ps/nm·km $\leq D(\lambda) \leq$ 11.2ps/nm·km

Cut-off Wavelength After Rewinding

G.652	G.655
$\lambda_{\text{cc}} \leq 1260\text{nm}$ (measured on a 20+2m length sample)	$\lambda_{\text{cc}} \leq 1470\text{nm}$

Type Designation For Optical Fiber Cable

■Type Designation



■Type Code

GY--Optical fiber cable used for outside communication

■Strength Code

(No code)--Strength member

F--Non metallic strength member

■Construction Code

(No code)--Loose tube

(No code)--Layer stranded

X--Central tube

T--Jelly filled

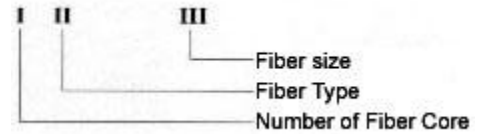
(No code)--Moisture barrier

C--Messengered

8--Figure 8 shape

Z--Flame resistance

Type Designation For Optical Fiber



Code for number of fiber core is indicated by number of the same fiber core. When optical cable is composed of different of fiber cores, "+" sign will be used to separate different fiber cores.

Code for fiber core type will be indicated by fiber core type, namely "A" and "B" represent multi-mode and single mode fiber respectively.

Fiber cable size is comprised of fiber core sizes.

■Sheath Code

Y--PE sheath

A--Aluminum/PE bonded to the inner surface of jacket

S--Steel/PE bonded to the inner surface of jacket

Central Loose Tube Fiber Optic Cable

GYXTW 2-12 CORES

Characteristic of Construction

- Loose tube
- Cable filling Compound (Water-blocking material)
- Corrugated steel tape coated with PE/co-polymer on both sides bonded to the inner surface of PE sheath
- Double steel wires as strength member before PE jacket

Application

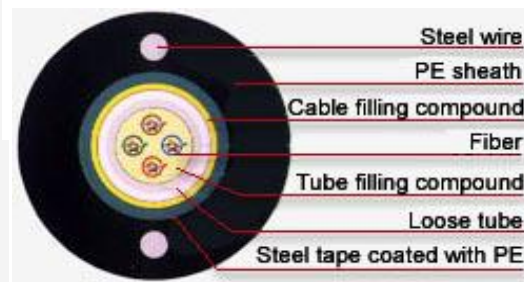
Applied to long-distance and local communications.

Suitable Installation

Duct, aerial and direct buried .

Operating Temperature

-40~+60℃



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min. Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2--12	11.4	140	120	240	3000	1000	3000

The technical parameters listed on the table are used for direct buried cable

Loose Tube Layer Stranded Fiber Optic Cable

GYTA 2-144

Characteristic of Construction

Loose tube
Metal central strength member
Cable filling Compound (Water-blocking material)
Corrugated aluminum tape coated with PE/co-polymer on both sides
bonded to the inner surface of PE sheath

Application

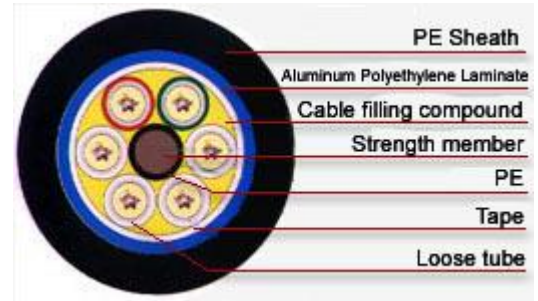
Applied to long-distance and local communications.

Suitable Installation

Duct, aerial and direct buried

Operating Temperature

-40~+60 °C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	12.8	145	130	260	1500	600	1000
62-72	13.6	160	140	280	1500	600	1000
74-96	15.3	198	160	320	1500	600	1000
98-120	17.0	238	170	340	1500	600	1000
122-144	18.8	286	190	380	1500	600	1000

GYA 2-144 CORES

Characteristic of Construction

Loose tube
Metal central strength member
Moisture barrier
Corrugated aluminum tape coated with PE/co-polymer on both sides bonded to the inner surface of PE sheath

Application

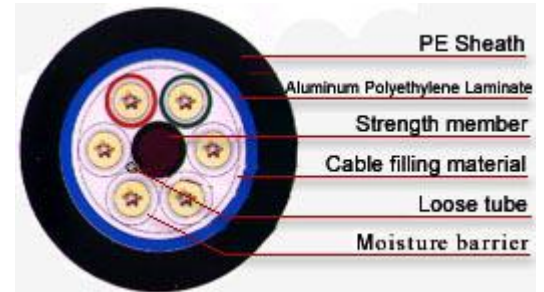
Applied to long-distance and local communications.

Suitable Installation

Duct, aerial and direct buried

Operating Temperature

-40~+60°C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	12.8	145	130	260	1500	600	1000
62-72	13.6	160	140	280	1500	600	1000
74-96	15.3	198	160	320	1500	600	1000
98-120	17.0	238	170	340	1500	600	1000
122-144	18.8	286	190	380	1500	600	1000

We can produce cables with different kinds of moisture barriers, eg.GYS

GYTS 2-144 CORES

Characteristic of Construction

Loose tube
Metal central strength member
Cable filling compound (Water-blocking material)
Corrugated steel wire coated with PE/co-polymer on both sides bonded to the inner surface of PE sheath

Application

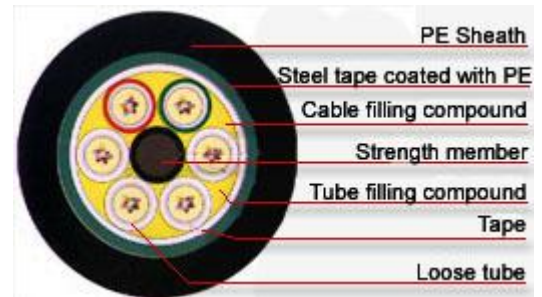
Applied to long-distance and local communications.

Suitable Installation

Duct, aerial and direct buried

Operating Temperature

-40~+60°C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	12.8	171	130	260	1500	600	1000
62-72	13.6	190	140	280	1500	600	1000
74-96	15.3	233	160	320	1500	600	1000
98-120	17.0	277	170	340	1500	600	1000
122-144	18.8	329	190	380	1500	600	1000

GYTY53 2-144 CORES

Characteristic of Construction

Loose tube
Metal central strength member
Cable filling compound (Water-blocking material)
PE intermediate sheath
Corrugated steel wire coated with PE/co-polymer on both sides bonded to the inner surface of PE outer sheath

Application

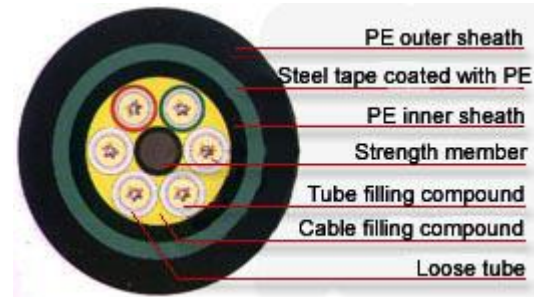
Applied to long-distance and local communications.

Suitable Installation

Duct, aerial and direct buried

Operating Temperature

-40~+60°C



Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	14.9	228	150	300	3000	1000	3000
62-72	15.7	250	160	320	3000	1000	3000
74-96	17.4	298	180	360	3000	1000	3000
98-120	19.1	350	200	400	3000	1000	3000
122-144	20.9	408	210	420	3000	1000	3000

GYTA53 2-144 Cores

Characteristic of Construction

Loose tube
Metal central strength member
Cable filling compound (Water-blocking material)
PE intermediate sheath
Corrugated steel wire coated with PE/co-polymer on both sides bonded to the inner surface of PE outer sheath

Application

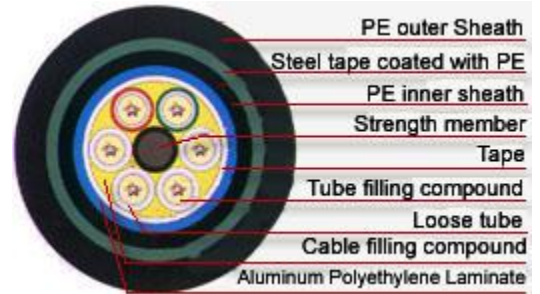
Applied to long-distance and local communications.

Suitable Installation

Duct, aerial and direct buried

Operating Temperature

-40~+60°C



Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	16.8	277	170	340	3000	1000	3000
62-72	17.6	299	180	360	3000	1000	3000
74-96	19.3	356	200	400	3000	1000	3000
98-120	21.0	406	210	420	3000	1000	3000
122-144	23.8	470	230	460	3000	1000	3000

GYFTY 2-144 CORES

Characteristic of Construction

Loose tube
Non-Metal central strength member
Cable filling compound (Water-blocking material)
Non-metallic strength yarn
PE outer sheath

Application

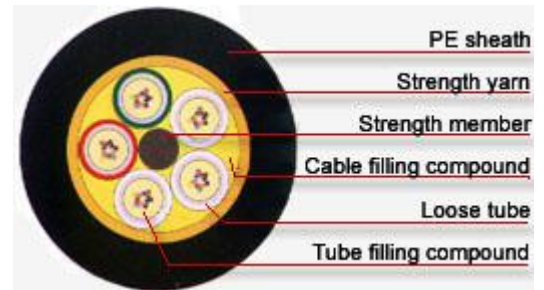
Applied to long-distance and local communications.

Suitable Installation

Duct and direct buried

Operating Temperature

-40~+60°C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min. Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	11.5	106	120	240	1500	600	1000
62-72	12.3	121	130	260	1500	600	1000
74-96	14.0	155	140	280	1500	600	1000
98-120	15.7	193	160	320	1500	600	1000
122-144	17.5	238	180	360	1500	600	1000

We can design tensile performance in accordance with customer's request.

The other performances such as flame resistance can also be designed per customer's request.

GYTFA 2-144 CORES

Characteristic of Construction

- Loose tube
- Non-Metal central strength member
- Cable filling compound (Water-blocking material)
- Non-metallic strength yarn
- Aluminum tape coated with PE/co-polymer on both sides bonded to the inner surface of PE outer sheath

Application

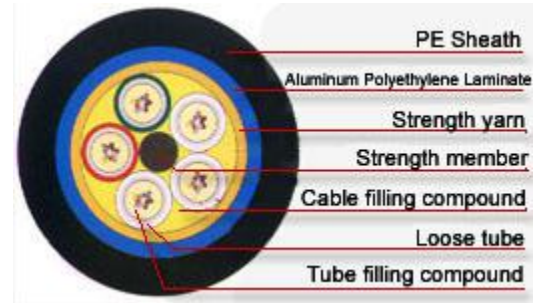
Applied to long-distance and local communications.

Suitable Installation

Duct and direct buried

Operating Temperature

-40~+60°C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-60	12.7	124	130	260	1500	600	1000
62-72	13.5	141	140	280	1500	600	1000
74-96	15.2	176	160	320	1500	600	1000
98-120	16.9	214	170	340	1500	600	1000
122-144	18.7	262	190	380	1500	600	1000

We can design tensile performance in accordance with customer's request.

The other performances such as flame resistance can also be designed per customer's request.

Messenger Aerial Fiber Optic Cable

GYXTC8S 2-12 CORES

Characteristic of Construction

Loose tube
Cable filling compound (Water-blocking material)
Steel tape coated with PE/co-polymer on both sides bonded to the inner surface of PE outer sheath
Steel stranded wire as messenger
Figure 8 shape

Application

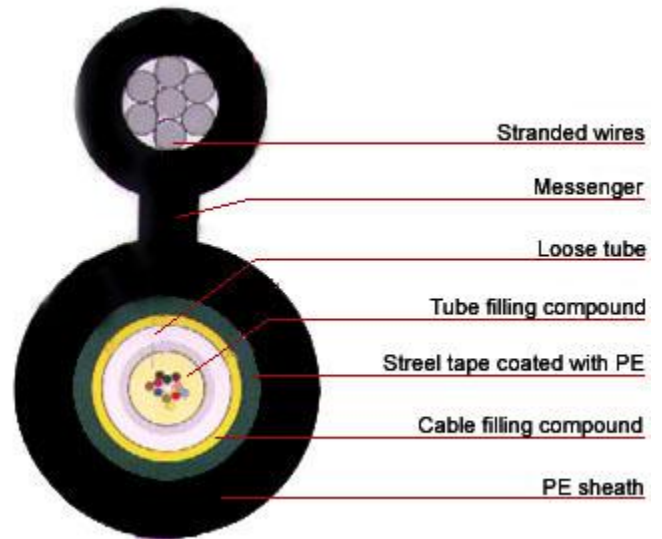
Applied to long-distance and local communications.

Suitable Installation

Messengered aerial

Operating Temperature

-40~+60°C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min.Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-12	10.1	7.0	5.0	2.5	6000	3500	3000

We can change force performance in accordance with customer's request.

GYTC8S 2-12 CORES

Characteristic of Construction

Loose tube
Metal central messenger member
Cable filling compound (Water-blocking material)
Steel tape coated with PE/co-polymer on both sides bonded to the inner surface of PE outer sheath
Steel stranded wire as messenger
Figure 8 shape

Application

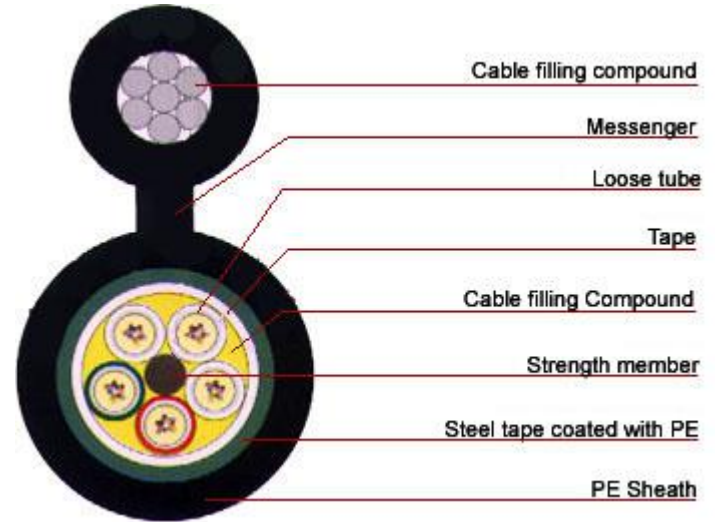
Applied to long-distance and local communications.

Suitable Installation

Messengered aerial

Operating Temperature

-40~+60°C



Technical Parameters

Number of Core	Diameter of Cable (mm)	Weight of Cable (kg/km)	Min. Bending Radius (mm)		Tensile Strength (N)		Crush Resistance (N/100mm)
			Static	Dynamic	Short Term	Long Term	Short Term
2-12	13.2	6.8	3.8	2.8	7500	4000	3000

We can change force performance in accordance with customer's request.

All Dielectric Self-Supporting Aerial Fiber Optic Cable

ADSS 2-12 CORES

Characteristic of Construction

Central loose tube
PE sheath for less than or equal to 110KV working voltage
Special power corrosion resistant sheath for more than 110KV working voltage
The changeable cross section of Kevlar yarn is suitable for different spacing and arc.

Notes: The use of power corrosion resistant sheath is depended on power of ADSS optical fiber cable.

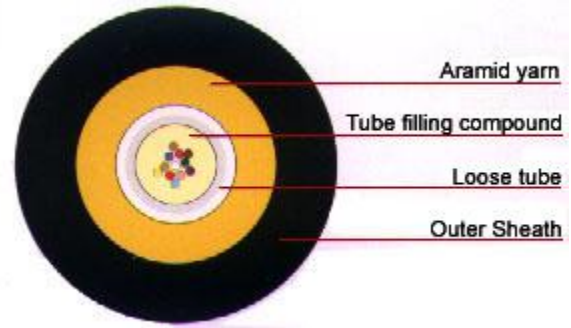
PE sheath is used when power is less than or equal to 12KV.
Power corrosion resistant sheath is used when power is more than 12KV.

Application

Applied to power circuit and messengered aerial for big spacing.

Suitable Installation

-40~+60°C



Technical Parameters

Type of Cable	Cross Section of Kevlar (mm ²)	Diameter of Cable (mm)	Weight of Cable (kg/km)	Breakage Strength (kN)	Max. Load Tensile (N)	Min. Bending Radius (mm)	Max. Power Voltage (KV)
GYFXTCY(I)	5.4	9.6	69	12.5	4200	145	≤110
GYFXTCY(II)	7.2	9.6/10.8*	70/91*	17.0	5600/6400*	145/165*	≤110
GYFXTCY(III)	15.0	10.8/11.8*	92/109*	36.0	11700/13500*	165/180*	≤110
GYFXTCY(IV)	25.0	11.8/12.9*	109/128*	60.0	19500/22500*	180/195*	≤110
GYFXTCY(V)	36.0	12.9/13.9*	130/150*	86.0	28000/32000*	195/210*	≤110
GYFXTCYH(II)	7.2	9.6/10.8*	96/122*	17.0	5600/6400*	145/165*	>110
GYFXTCYH(III)	15.0	10.8/11.8*	123/141*	36.0	11700/13500*	165/180*	>110
GYFXTCYH(IV)	25.0	11.8/12.9*	142/163*	60.0	19500/22500*	180/195*	>110
GYFXTCYH(V)	36.0	12.9/13.9*	164/186*	86.0	28000/32000*	195/210*	>110

*2-12 cores/14-48 cores. Regarding more than 48 cores, we can provide special design for different request.
We also can provide design and manufacture for layer stranded ADSS cable.

Plenum Cable



Plenum Coaxial Cable

RG6U

Construction

Tinned Copper Braid Shield or Aluminum Braid Shield
Aluminum Foil Shield
Foam FEP dielectric
18 AWG Solid Bare Copper Conductor or 18 AWG Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.250	75	84



RG11U

Construction

Tinned Copper Braid Shield
Aluminum Foil Shield
14 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.348	75	83



RG58U

Construction

Bare Copper Braid Shield
FEP Insulation
20 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.158	50	69.5



RG58U-Thinnet

Construction

Tinned Copper Braid Shield
Aluminum Foil Shield
FEP dielectric
20 AWG Tinned Copper
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.161	50	80



RG59U

Construction

Bare Copper Braid Shield
Foam FEP Dielectric
20 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.216	75	82



RG59U-Mini

Construction

Tinned Copper Braid Shield
Aluminum Foil Shield
Foam FEP dielectric
26 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.150	75	83



RG62

Construction

Bare Copper Braid Shield
Foam FEP Dielectric
22 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.208	93	85



RG6U/Broadcast Cable

Construction

Tinned Copper Braid Shield
Aluminum Foil Shield
Foam FEP dielectric
18 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.236	75	83



RG59U/Broadcast Cable

Construction

Tinned Copper Braid Shield
Aluminum Foil Shield
Foam FEP dielectric
20 AWG Solid Bare Copper Conductor
Smoke Guard
Jacket -Black

Nominal O.D.	Nom. Imp. (OHMS)	Nom.% vel. of Prop.
.200	75	84



Plenum Multi-Conductor Cable

Plenum Multi-Conductor Unshielded Cable

Construction

- Stranded T.C. Conductors
- Conductors Twisted
- Plenum PVC Insulation
- Plenum PVC Jacket - Grey or White



No. Cond.	Cond. Size	Cond. Strand	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
2	22	7×30	.008"	.006"	.120"	300	300/150	8/4	Blk/Red
3	22	7×30	.008"	.006"	.127"	300	300/150	12/6	Blk/Red/Green
4	22	7×30	.008"	.006"	.138"	300	300/150	16/8	1
5	22	7×30	.008"	.006"	.145"	300	300/150	19/10	1
6	22	7×30	.008"	.006"	.156"	300	300/150	24/12	1
2	18	7×26	.008"	.006"	.160"	300	300/150	16/18	Blk/Red
2	18	7×26	.008"	.006"	.160"	300	300/150	16/18	Blk/Red
3	18	7×26	.008"	.006"	.170"	300	300/150	24/12	1
3	18	7×26	.008"	.006"	.170"	300	300/150	24/12	1
4	18	7×26	.008"	.006"	.186"	300	300/150	30/15	1
4	18	7×26	.008"	.006"	.186"	300	300/150	30/15	1
5	18	7×26	.008"	.006"	.196"	300	300/150	38/19	1
6	18	7×26	.008"	.006"	.212"	300	300/150	44/22	1
7	18	7×26	.008"	.006"	.227"	300	300/150	52/26	1
8	18	7×26	.008"	.006"	.240"	300	300/150	64/32	1
10	18	7×26	.008"	.006"	.265"	300	300/150	72/36	1
2	16	16×19	.008"	.006"	.178"	300	300/150	26/13	Blk/Red
3	16	16×19	.008"	.006"	.189"	300	300/150	36/18	2
4	16	16×19	.008"	.006"	.208"	300	300/150	46/23	2
2	14	19×26	.008"	.006"	.212"	300	300/150	34/17	Blk/Red
3	14	19×26	.008"	.006"	.232"	300	300/150	48/24	2
4	14	19×26	.008"	.006"	.251"	300	300/150	64/32	2

Plenum Multi-Conductor Unshielded Solid Cable

Construction

- Solid B.C. Conductors
- Conductors Twisted
- Plenum PVC Insulation
- Plenum PVC Jacket - Grey or White



No. Cond.	Cond. Size	Cond. Strand	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
2	18	Solid	.008"	.016"	.143"	300	300/150	16/8	6
3	18	Solid	.008"	.016"	.151"	300	300/150	22/11	6
4	18	Solid	.008"	.016"	.165"	300	300/150	28/14	6
5	18	Solid	.008"	.016"	.174"	300	300/150	34/17	6
6	18	Solid	.008"	.016"	.188"	300	300/150	42/21	6
8	18	Solid	.008"	.016"	.212"	300	300/150	56/28	6
10	18	Solid	.008"	.016"	.288"	300	300/150	70/35	6
10	18	Solid	.008"	.016"	.288"	300	300/150	70/35	6

Plenum Multi-Conductor Foil Shielded Cable

Construction

- Stranded T.C. Conductors
- Conductors Twisted
- 100% Foil Shield
- Stranded T.C. Drain Wire
- Plenum PVC Insulation
- Plenum PVC Jacket - Grey or White



No. Cond.	Cond. Size	Cond. Strand	Drain Wire Size	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
2	22	7×30	22	.008"	.016"	.122"	300	300/150	12/6	1
2	22	7×30	22	.008"	.016"	.122"	300	300/150	12/6	1
2	22	7×30	22	.008"	.016"	.122"	300	300/150	12/6	1
3	22	7×30	22	.008"	.016"	.129"	300	300/150	14/7	1
4	22	7×30	22	.008"	.016"	.140"	300	300/150	18/9	1
5	22	7×30	22	.008"	.016"	.147"	300	300/150	20/10	1
6	22	7×30	22	.008"	.016"	.155"	300	300/150	24/12	1
7	22	7×30	22	.008"	.016"	.168"	300	300/150	28/14	1
8	22	7×30	22	.008"	.016"	.173"	300	300/150	30/15	1
9	22	7×30	22	.008"	.016"	.178"	300	300/150	34/17	1
10	22	7×30	22	.008"	.016"	.186"	300	300/150	38/19	1
2	20	7×28	20	.008"	.016"	.137"	300	300/150	14/7	1
2	18	7×26	18	.008"	.016"	.162"	300	300/150	20/10	1
2	18	7×26	18	.008"	.016"	.162"	300	300/150	20/10	1
2	18	7×26	18	.008"	.016"	.162"	300	300/150	20/10	1
3	18	7×26	18	.008"	.016"	.172"	300	300/150	26/13	1
3	18	7×26	18	.008"	.016"	.172"	300	300/150	26/13	1
4	18	7×26	18	.008"	.016"	.188"	300	300/150	38/19	1
4	16	7×26	18	.008"	.016"	.188"	300	300/150	38/19	1
5	18	7×26	18	.008"	.016"	.198"	300	300/150	44/22	2
6	18	7×26	18	.008"	.016"	.210"	300	300/150	52/26	2
6	18	7×26	18	.008"	.016"	.210"	300	300/150	52/26	2
7	18	7×26	18	.008"	.016"	.229"	300	300/150	56/28	2
9	18	7×26	18	.008"	.016"	.255"	300	300/150	68/34	2
10	18	7×26	18	.008"	.016"	.291"	300	300/150	86/43	2
2	16	16×19	16	.008"	.016"	.180"	300	300/150	30/15	1
3	16	16×19	16	.008"	.016"	.204"	300	300/150	46/23	1

Plenum Multi-Conductor Shielded Foil - Shielded Cable

Construction

- Solid Bare Copper Conductors
- Conductors Twisted
- 100% Aluminum Foil Shield
- Solid Tinned Copper Drain Wire
- Plenum PVC Insulation



- Plenum PVC Jacket – Grey

www.carolinamicrowave.com
email: sales@carolinamicrowave.com



Toll Free: 888-684-6248
Phone: +1-864-336-0000

No. Cond.	Cond. Size	Cond. Strand	Drain Wire Size	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
2	18	Solid	22	.008"	.016"	.150"	300	300/150	30	4
3	18	Solid	22	.008"	.016"	.159"	300	300/150	39	4
4	18	Solid	22	.008"	.016"	.174"	300	300/150	46	4

Plenum Multi-Pair Cable

Plenum Multi-Pair Overall Foil Shield Cable

Construction

- Stranded T.C. Conductors
- Twisted Pairs
- 100% Foil Shield
- Stranded T.C. Drain Wire
- Plenum PVC Insulation
- Plenum PVC Jacket – Grey



No. Pairs	Cond. Size	Drain. Wire Size	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
2	24	7×32	.008"	.016"	.159"	300	300/150	12/6	3
3	24	7×32	.008"	.016"	.169"	300	300/150	18/9	3
4	24	7×32	.008"	.016"	.186"	300	300/150	22/11	3
6	24	7×32	.008"	.016"	.213"	300	300/150	34/17	3
9	24	7×32	.008"	.016"	.269"	300	300/150	44/22	3
2	22	7×30	.008"	.016"	.178"	300	300/150	18/9	3
3	22	7×30	.008"	.016"	.190"	300	300/150	24/12	3
4	22	7×30	.008"	.016"	.210"	300	300/150	32/16	3
6	22	7×30	.008"	.016"	.241"	300	300/150	46/23	3
9	22	7×30	.008"	.016"	.325"	300	300/150	62/31	3
2	18	7×26	.008"	.016"	.244"	300	300/150	36/18	3
3	18	7×26	.008"	.016"	.261"	300	300/150	50/25	3
4	18	7×26	.008"	.016"	.277"	300	300/150	64/32	3
6	18	7×26	.008"	.016"	.335"	300	300/150	92/46	3

Plenum Multi-Pair Individually Foil Shield Cable

Construction

- Stranded Tinned Copper Conductors
- Twisted Pairs
- Each Pair 100% Aluminum Foil Shield
- One Common Stranded Tinned
- Copper Drain Wire
- Plenum PVC Insulation
- Plenum PVC Jacket - Grey, Black, White



No. Pairs	Cond. Size	Cond. Strand.	Drain. Wire Size	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
2	22	7×32	24	.008"	.016"	.180"	300	300/150	16/8	Black/Red Green/White

Plenum Multi-Pair Individually Foil Shield Cable

Construction

- Stranded Tinned Copper Conductors
- Twisted Pairs
- Each Pair 100% Aluminum Foil Shield
- Each Pair Stranded T.C. Drain Wire
- Plenum PVC Insulation
- Plenum PVC Jacket – Grey



No. Pairs .	Cond. Size	Cond. Strand.	Drain. Wire Size	Insul. Thick.	Jkt Thick.	Nom. O.D.	Voltage	Put-Up meters	Weight	Colour Code
3	22	7×30	24	.008"	.016"	.194"	300	300/150	28/14	3
4	22	7×30	24	.008"	.016"	.216"	300	300/150	36/18	3
6	22	7×30	24	.008"	.016"	.251"	300	300/150	54/27	3
2	18	7×26	24	.008"	.016"	.248				

Plenum Telephone Cable

Plenum Telephone - UTP Cable (Multi-Pairs-Cat)

Construction

- Solid Bare Copper Conductors
- Twisted Pairs
- Smoke Guard Insulation Cat – 3
- FEP Insulation Cat - 5 - 5E – 6
- Plenum PVC Jacket - Grey, Black, White



No. Pairs .	Cond. Size	Cond. Strand.	Insul. Thick.	Jkt Thick.	Nom. O.D.	Category	Put-Up meters	Weight	Colour Code
2	24	Solid	.009"	.010"	.140"	3	300/150	16/8	5
3	24	Solid	.009"	.010"	.155"	3	300/150	20/10	5
4	24	Solid	.009"	.010"	.165"	3	300/150	26/13	5
4	24	Solid	.009"	.010"	.175"	5	300/150	26/13	5
4	24	Solid	.009"	.010"	.180"	5E	300/150	26/13	5
4	24	Solid	.009"	.010"	.180"	6	300/150	26/13	5
4	24	Solid	.009"	.010"	.180"	6	300/150	26/13	5
6	24	Solid	.009"	.010"	.250"	3	300/150	34/17	5
25	24	Solid	.009"	.010"	.380"	3	300/150	118/59	5
25	24	Solid	.009"	.010"	.385"	5	300/150	118/59	5
2	22	Solid	.009"	.010"	.180"	3	300/150	20/10	5
3	22	Solid	.009"	.010"	.190"	3	300/150	26/13	5
4	22	Solid	.009"	.010"	.210"	3	300/150	34/17	5

Plenum Shielded Telephone - STP Cable (Multi-Pairs-Foil Shield-Cat)

Construction

- Solid Bare Copper Conductors
- Twisted Pairs
- 100% Aluminum Foil Shield
- Drain Wire
- Smoke Guard Insulation Cat - 1,3
- FEP Insulation Cat - 5 - 5E
- Plenum PVC Jacket - Grey



No. Pairs .	Cond. Size	Cond. Strand.	Drain Wire Size	Insul. Thick.	Jkt Thick.	Nom. O.D.	Category	Put-Up meters	Weight	Colour Code
4	24	Solid	24	.009"	.020"	.170"	3	300/150	20/10	5
4	24	Solid	24	.009"	.020"	.190"	5	300/150	24/12	5
4	24	Solid	24	.009"	.020"	.190"	5E	300/150	24/12	5
4	24	Solid	24	.009"	.020"	.190"	5E	300/150	24/12	5
4	24	Solid	24	.009"	.020"	.200"	6	300/150	26/13	5

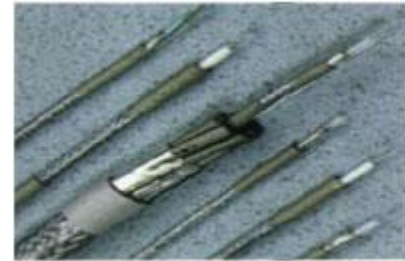
Mini-coaxial Cable for Telecommunications

Application

- Digital distribution frame(DDF)
- Digital UIT-G.703 coaxial links
- Fixed telephony communication
- Digital video
- DS-3/DS-4 network links

Main Characteristics

- Precise manufacturing for loss accuracy
- Low loss and high screen effectiveness
- Flame retardant PVC or HFSL/LSZH - zero/free halogen and low smoke sheath
- According to PTT standards



Specification

SPANISH TELEFONICA STANDARD

Model	Inner		Dielectric		Shield		Sheath			DC resist. (Ω/KM)		Capa.	Insulation
	Material	mm	Material	mm	Tape	Braid	Material	mm	Color	Inner	Outer	pF/m	MΩ/KM
FLEX-2	Cu-Ag	0.29	Solid PE	1.7	Al-Pet	Cu-Sn	PVC	2.55-2.5	Grey	335	35	70	10
FLEX-3	Cu	0.4	Solid PE	2.3	Al-Pet	Cu-Sn		3.3-3.7		114	24	70	10
FLEX-5	Cu-Sn	7×0.19	Cell PE	2.8	-	2×Cu-Sn		4.7		95	9	62	10
FLEX-6	Cu-Ag	0.8	Cell PE	3.9	Al-Pet	Cu-Sn		6		39	13	62	10

TELECOM ITALIRA STANDARD

Model	Inner		Dielectric		Shield		Sheath			DC resist. (Ω/KM)		Capa.	Insulation
	Material	mm	Material	mm	Tape	Braid	Material	mm	Color	Inner	Outer	pF/m	MΩ/KM
ST-212	Cu	0.4	Cell PE	1.9	Al-Pet	Cu-Sn	HFSL	3.1	Grey	145	25	60	10
ST-214	Cu	0.8	Cell PE	3.7	High permeability metallic tape	2×Cu-Sn		5.9		37	10	60	10

BRITISH TELECOM STANDARD

Model	Inner		Dielectric		Shield		Sheath			DC resist. (Ω/KM)		Capa.	Insulation
	Material	mm	Material	mm	Tape	Braid	Material	mm	Color	Inner	Outer	pF/m	MΩ/KM
BT-2002	Cu	7×0.2	Cell PE	2.4	-	2×Cu-Sn	PVC	5.1	White	95	10	62	10
BT-2003		0.61	Solid PE	3.7	-	2×Cu		6.65		63	5	70	10
BT-3002		0.31	Solid PE	1.95	-	2×Cu		3.55		236	19.5	70	10
2003 LOW LOSS		0.6	Foam PE	2.8	Al	Cu-Sn		3.55				62	10

BELLCORE STANDARD (GR-139-CORE)

Model	Inner		Dielectric		Shield		Sheath			DC resist. (Ω/KM)		Capa.	Insulation
	Material	mm	Material	mm	Tape	Braid	Material	mm	Color	Inner	Outer	pF/m	MΩ/KM
734	Cu	0.81	Foam PE	3.81	Al-Pet-Al	Cu-Sn	PVC	5.5	Grey	351	8.8	58	10
735		0.404	Foam PE	1.96		Cu-Sn		3.4		130	18.4	58	10
735 G-3		0.404	Foam PE	1.96		Braid of AWG 38		3.4		130	15	58	10

ERICSSON STANDARD

Model	Inner		Dielectric		Shield		Sheath			DC resist. (Ω/KM)		Capa.	Insulation

	Material	mm	Material	mm	Tape	Braid	Material	mm	Color	Inner	Outer	pF/m	MΩ/KM
TZC 750 24	Cu	0.31	Solid PE	1.95	-	2×Cu-Sn	PVC	3.55		228	17.5	67	5
TZC 750 25	Cu	0.31	Solid PE	1.95	-	2×Cu-Sn	HFLS	3.55	Black	228	17.5	67	5
TZC 750 05	Cu-Sn	0.49	Solid PE	3	-	2×Cu-Sn	PVC	5.6		93	6	67	5

JAPANESE STANDARD

Model	Inner		Dielectric		Shield		Sheath			DC resist. (Ω/KM)		Capa. pF/m	Insulation MΩ/KM
	Material	mm	Material	mm	Tape	Braid	Material	mm	Color	Inner	Outer		
1.5 C-2V	Cu	0.25	Solid PE	1.6	-	Cu	PVC	2.9	Black	355	70	70	10
2.5 C-2V		0.4		2.4		Cu-Sn		4		145	17	70	10
2.5 C-2W		0.4		2.4		2×Cu-Sn		4.7		145	9.2	70	10
3 C-2V		0.5		3.1		Cu-Sn		5.4		91.5	9.2	70	10
3 C-2W		0.5		3.1		2×Cu		6.5		91.5	5	70	10
5 C-2V		0.8		4.9		Cu		7.4		35.9	8	70	10
5 C-2W		0.8		4.9		2×Cu		8.3		35.9	4	70	10

Attenuation @ 20°C (dB/100m)

Cable	FREQUENCY (MHz)													
	1.02	4.22	5	10	17.18	20	30	34.37	50	70	100	200	210	211.87
FLEX-2	1.7	2.46			10.35			14.51		18.95	23.18			
FLEX-3	2.1	4.1			8.5			10.5		14.6			24.5	
FLEX-5	1.5	2.75			6.2			8.1		12.1				
FLEX-6														
ST-212	1.8	3.9		5.7					12.2	14.3	16.9			23.1
ST-214	0.9	1.95				4.3			6.8	8.5				
BT-2002	1.9	3.8			6.9					11.7				
BT-2003	1.3	2.4	2.6		9					10				
BT-3002	2.2	4.3	2	2.6					5.9	17	21.5			
2003 LOW LOSS	1.23				8.3	9.5		11.8						
734			3.9	5.6					12.5	9.2		13.1		
735	2		3.9	5.6					12.5	14		25.6		
735 G-3	2				9.3					14		25.8		
TZC 750 24	2.3	4.6			9.3					19		32		
TZC 750 25	2.3	4.6			5.9					19		32		
TZC 750 05	1.7	3								12		18		
1.5 C-2V														
2.5 C-2V	1.7		3.6	4.2			9.3				17			
2.5 C-2W	1.7		3.6	4.2			9.3				17			
3 C-2V	1.3		2.9	5.1			7.3				14			
3 C-2W	1.3		2.9	5.1			7.3				14			
5 C-2V	0.8			2.7			4.7					12.6		
5 C-2W	0.8			2.7			4.7					12.6		

Symmetrical Communication



Pairing Stranded

0.4 Symmetrical Cable (Pairing Stranded)

Description

1/0.40 tinned copper conductor, insulated foam PE(skin-foam-skin), pairing with AL/polyester foil shield, tinned copper drain wire, PVC jacket

Construction

TYPE	PAIR	CONDUCT O.D. (mm)	INSULATION O.D. (mm)	UNIT SHEATH O.D. (mm)	OUTER JACKET O.D. (mm)
SEYVP (V) 0.4-1P	1	1/0.4	1.0	-	2.8±0.2
SEYVP (V) 0.4-2P	2			2.8±0.2	6.9±0.3
SEYVP (V) 0.4-8P	8			2.8±0.2	10.2±0.3
SEYVP (V) 0.4-16P	16			2.8±0.2	14.6±0.3
SEYVP 0.4-8P	8			-	9.1±0.3

(V) --- indicated PVC unit sheathing.

Characteristic

NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE @1MHz (Ω)	ATTENUATION @1MHz (dB/100m)
≤ 45	120±10%	≤ 2.6

Color

PAIR	COLOR CODE		PAIR	COLOR CODE		PAIR	COLOR CODE		PAIR	COLOR CODE	
	A	B		A	B		A	B		A	B
1	white	blue	5	white	gray	9	red	brown	13	black	green
2	white	orange	6	red	blue	10	red	gray	14	black	brown
3	white	green	7	red	orange	11	black	blue	15	black	gray
4	white	brown	8	red	green	12	black	orange	16	yellow	blue

0.5 Symmetrical Cable (Pairing Stranded)

Description

1/0.50 tinned copper conductor, insulated foam PE(skin-foam-skin), pairing with AL/polyester foil shield, tinned copper drain wire, PVC jacket

Construction

TYPE	PAIR	CONDUCT O.D. (mm)	INSULATION O.D. (mm)	UNIT SHEATH O.D. (mm)	OUTER JACKET O.D. (mm)
SEYVP (V) 0.5-1P	1	1/0.5	1.3	-	3.8±0.2
SEYVP (V) 0.5-2P	2			3.5±0.2	8.0±0.3
SEYVP (V) 0.5-4P	4			3.5±0.2	9.0±0.3
SEYVP (V) 0.5-6P	6			3.5±0.2	11.2±0.3
SEYVP (V) 0.5-7P	7			3.5±0.2	11.2±0.3
SEYVP (V) 0.5-8P	8			3.5±0.2	12.0±0.3
SEYVP (V) 0.5-16P	16			3.5±0.2	17.2±0.3
SEYVP 0.5-4P	4			-	8.1±0.3
SEYVP 0.5-8P	8			-	10.6±0.3
SEYVP 0.5-16P	16			-	14.9±0.3

(V) --- indicated PVC unit sheathing.

Characteristic

NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE @1MHz (Ω)	ATTENUATION @1MHz (dB/100m)
≤ 45	120±10%	≤ 2.1

Color

PAIR	COLOR CODE		PAIR	COLOR CODE		PAIR	COLOR CODE		PAIR	COLOR CODE	
	A	B		A	B		A	B		A	B
1	white	blue	5	white	gray	9	red	brown	13	black	green
2	white	orange	6	red	blue	10	red	gray	14	black	brown
3	white	green	7	red	orange	11	black	blue	15	black	gray
4	white	brown	8	red	green	12	black	orange	16	yellow	blue

0.6 Symmetrical Cable (Pairing Stranded)

Description

1/0.60 tinned copper conductor, insulated foam PE (skin-foam-skin), pairing with AL/polyester foil shield, tinned copper drain wire, PVC jacket

Construction

TYPE	PAIR	CONDUCT O.D. (mm)	INSULATION O.D. (mm)	UNIT SHEATH O.D. (mm)	OUTER JACKET O.D. (mm)
SEYVP (V) 0.6-1P	1	1/0.6	1.5	-	3.9±0.2
SEYVP (V) 0.6-2P	2			3.9±0.2	9.0±0.3
SEYVP (V) 0.6-8P	8			3.9±0.2	12.8±0.3

(V) --- indicated PVC unit sheathing.

Characteristic

NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE @1MHz (Ω)	ATTENUATION @1MHz (dB/100m)
≤ 45	120±10%	≤ 1.8

Color

PAIR	COLOR CODE		PAIR	COLOR CODE		PAIR	COLOR CODE		PAIR	COLOR CODE	
	A	B		A	B		A	B		A	B
1	white	blue	3	white	green	5	white	gray	7	red	Orange
2	white	orange	4	white	brown	6	red	blue	8	red	Green

Star-quad Stranded

0.4 Symmetrical Cable (Star quad Stranded)

Description

1/0.40 bare copper conductor, insulated foam PE(skin-foam-skin), stranded into star-quad AL/polyester foil plus tinned copper braid screen, tinned copper drain wire, PVC jacket

Construction

TYPE	PAIR	CONDUCT O.D. (mm)	INSULATION O.D. (mm)	SCREEN	OUTER JACKET O.D. (mm)
SEYVP2×2×0.4/0.9	1	1/0.4	0.8	overall screen	4.5±0.5
SEYVP4×2×0.4/0.9	2			overall screen	(4.5×10.0)±0.5
SEYVP8×2×0.4/0.9	4			overall screen	7.7±0.5
SEYVP16×2×0.4/0.9	8			overall screen	9.4±0.5
SEYVPP8×2×0.4/0.9	4			unit & overall screen	8.3±0.5
SEYVPP16×2×0.4/0.9	8			unit & overall screen	10.3±0.5

Characteristic

NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE @1MHz (Ω)	INSULATION RESISTANCE (MΩ.KM)	ATTENUATION @1MHz (dB/100m)
≤ 50	120±10%	≥ 10000	≤ 2.5

Color

UNIT 1			UNIT 2			UNIT 3			UNIT 4		
PAIR 1	A	B	PAIR 3	A	B	PAIR 5	A	B	PAIR 7	A	B
	yellow	purple		yellow	purple		yellow	purple		yellow	purple
PAIR 2	A	B	PAIR 4	A	B	PAIR 6	A	B	PAIR 8	A	B
	white	blue		white	orange		white	green		white	brown
UNIT 5			UNIT 6			UNIT 7			UNIT 8		
PAIR 9	A	B	PAIR 11	A	B	PAIR 13	A	B	PAIR 15	A	B
	yellow	purple		yellow	purple		yellow	purple		yellow	purple
PAIR 10	A	B	PAIR 12	A	B	PAIR 14	A	B	PAIR 16	A	B
	white	gray		red	blue		red	orange		red	green

05 Symmetrical Cable (Star-quad Stranded)

Description

1/0.50 bare copper conductor, insulated foam PE(skin-foam-skin), stranded into star-quad AL/polyester foil plus tinned copper braid screen, tinned copper drain wire, PVC jacket

Construction

TYPE	PAIR	CONDUCT O.D. (mm)	INSULATION O.D. (mm)	SCREEN	OUTER JACKET O.D. (mm)
SEYVP2×2×0.5/1.1	1	1/0.5	1.1	overall screen	5.0±0.5
SEYVP4×2×0.5/1.1	2			overall screen	(5.0×11.5)±0.5
SEYVP8×2×0.5/1.1	4			overall screen	8.7±0.5
SEYVP16×2×0.5/1.1	8			overall screen	10.8±0.5
SEYVPP8×2×0.5/1.1	4			unit & overall screen	9.4±0.5
SEYVPP16×2×0.5/1.1	8			unit & overall screen	11.7±0.5

Characteristic

NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE @1MHz (Ω)	INSULATION RESISTANCE (MΩ.KM)	ATTENUATION @1MHz (dB/100m)
≤ 50	120±10%	≥ 10000	≤ 2.1

Color

UNIT 1			UNIT 2			UNIT 3			UNIT 4		
PAIR 1	A	B	PAIR 3	A	B	PAIR 5	A	B	PAIR 7	A	B
	yellow	purple		yellow	purple		yellow	purple		yellow	purple
PAIR 2	A	B	PAIR 4	A	B	PAIR 6	A	B	PAIR 8	A	B
	white	blue		white	orange		white	green		white	brown
UNIT 5			UNIT 6			UNIT 7			UNIT 8		
PAIR 9	A	B	PAIR 11	A	B	PAIR 13	A	B	PAIR 15	A	B
	yellow	purple		yellow	purple		yellow	purple		yellow	purple
PAIR 10	A	B	PAIR 12	A	B	PAIR 14	A	B	PAIR 16	A	B
	white	gray		red	blue		red	orange		red	green

0.6 Symmetrical Cable (Star-quad Stranded)

Description

1/0.60 bare copper conductor, insulated foam PE(skin-foam-skin), stranded into star-quad AL/polyester foil plus tinned copper braid screen, tinned copper drain wire, PVC jacket

Construction

TYPE	PAIR	CONDUCT O.D. (mm)	INSULATION O.D. (mm)	SCREEN	OUTER JACKET O.D. (mm)
SEYVP2×2×0.6/1.2	1	1/0.6	1.2	overall screen	5.3±0.5
SEYVP4×2×0.6/1.2	2			overall screen	(5.3×11.6)±0.5
SEYVP8×2×0.6/1.2	4			overall screen	9.2±0.5
SEYVP16×2×0.6/1.2	8			overall screen	11.3±0.5
SEYVPP8×2×0.6/1.2	4			unit & overall screen	9.9±0.5
SEYVPP16×2×0.6/1.2	8			unit & overall screen	12.4±0.5

Characteristic

NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE @1MHz (Ω)	INSULATION RESISTANCE (MΩ.KM)	ATTENUATION @1MHz (dB/100m)
≤ 50	120±10%	≥ 10000	≤ 1.6

Color

UNIT 1			UNIT 2			UNIT 3			UNIT 4		
PAIR 1	A	B	PAIR 3	A	B	PAIR 5	A	B	PAIR 7	A	B
	yellow	purple		yellow	purple		yellow	purple		yellow	purple
PAIR 2	A	B	PAIR 4	A	B	PAIR 6	A	B	PAIR 8	A	B
	white	blue		white	orange		white	green		white	brown
UNIT 5			UNIT 6			UNIT 7			UNIT 8		
PAIR 9	A	B	PAIR 11	A	B	PAIR 13	A	B	PAIR 15	A	B
	yellow	purple		yellow	purple		yellow	purple		yellow	purple
PAIR 10	A	B	PAIR 12	A	B	PAIR 14	A	B	PAIR 16	A	B
	white	gray		red	blue		red	orange		red	green

PVC Insulation Wire

Our PVC insulation wire are produced and inspected according to the international standard of 450/750V rated voltage and the standard of rated voltage 450/750V PVC insulating wire, cable and Flexible cable. We have established perfect and complete quality control system, and have advanced producing machine and inspection equipments to insure the quality products.

Standards

GB5023-1997, JB8734-1998

Applications

These products are suitable for power resources, instrument and telecom equipment, rated at A.C. 450/750V and below.

Properties

Working temperature: normal type does not exceed 70 °C. type with "90" does not exceed 90 °C

Installation temperature: not lower than -10 °C

Types & Specification

No. Description GB5023.1~5023.5-1997, GB5023.1~5023.3-85

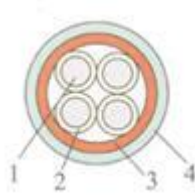
Type	Descriptions	Rated voltage (V)	No. cores	Nom. section (mm²)
Non-sheathed Cable for Fixed Wiring				
227 IEC 01 (BV)	Normal single-core hard conductor cable without sheath	450/750	1	1.5 --- 10
227 IEC 02 (RV)	Normal single-core flexible conductor cable without sheath	450/750	1	1.5 --- 10
227 IEC 05 (BV)	70 °C Single core PVC insulated cable for inner arrangement	300/500	1	0.5 --- 1.0
227 IEC 06 (RV)	70 °C Single core PVC insulated flexible cable for inner arrangement	300/500	1	0.5 --- 1.0
227 IEC 07 (BV-90)	90 °C Single core PVC insulated cable for inner arrangement	300/500	1	0.5 --- 2.5
227 IEC 08 (RV-90)	90 °C Single core PVC insulated flexible cable for inner arrangement	300/500	1	0.5 --- 2.5
sheathed Cable for Fixed Wiring				
227 IEC 10 (BVV)	Light-duty PVC sheathed cable	300/500 or 450/750	2,3,4,5	0.75 --- 10
Flexible Cables (Wires)				
227 IEC 42 (RVB)	Flat-type no-sheath flexible wire	300/300	2	0.3 --- 0.75
227 IEC 43 (RVS)	Light-duty PVC insulated PVC sheathed round-type flexible wire	300/300	2	0.5 --- 0.75
227 IEC 52 (RVV)	Light-duty PVC sheathed flexible wire	300/300	2,3	0.5 --- 0.75
227 IEC 53 (RVV)	Normal PVC sheathed flexible wire	300/500	2,3,4,5	0.75 --- 2.5
BVR	copper-core PVC insulating flexible wire	450/750	1	2.5 --- 10
PVC Insulated & Sheathed Parallel Wires				
BVVB	copper-core PVC insulating PVC jacket flat wire	300/500 or 450/750	2,3	0.75 --- 10

www.carolinamicrowave.com
email: sales@carolinamicrowave.com



Toll Free: 888-684-6248
Phone: +1-864-336-0000

Sectional diagram



- 1.Cu.conductor core
- 2.PVC insulation
- 3.Metal(Cu.wire) shielded
- 4.PVC sheathed

Note: cables and wires in different specifications could be manufactured according to requirement of clients.

RVV Type Flexible Cable



227 IEC 52 (RVV) (GB 5023.5 -- 1997)

Nom. Section (mm ²)	Insul. Thick (mm)	Jkt. Thick (mm)	Cable Dimension (mm)		Min. Insul. resistance @70°C (M Ω . km)
			Min.	Max.	
2 x 0.5	0.5	0.6	4.8 or 3.0 x 4.8	6.0 or 3.6 x 6.0	0.012
2 x 0.75	0.5	0.6	5.2 or 3.2 x 5.2	6.4 or 3.9 x 6.4	0.012
3 x 0.5	0.5	0.6	5.0	6.2	0.012
3 x 0.75	0.5	0.6	5.4	6.8	0.012

227 IEC 53 (RVV) (GB 5023.5 -- 1997)

Nom. Section (mm ²)	Insul. Thick (mm)	Jkt. Thick (mm)	Cable Dimension (mm)		Min. Insul. resistance @70°C (M Ω . km)
			Min.	Max.	
2 x 0.75	0.6	0.8	6.0 or 3.8 x 6.0	7.6 or 5.2 x 7.6	0.011
2 x 1	0.6	0.8	6.4	8.0	0.010
2 x 1.5	0.7	0.8	7.4	9.0	0.010
2 x 2.5	0.8	1.0	8.9	11.0	0.009
3 x 0.75	0.6	0.8	6.4	8.0	0.011
3 x 1	0.6	0.8	6.8	8.4	0.010
3 x 1.5	0.7	0.9	8.0	9.8	0.010
3 x 2.5	0.8	1.1	9.6	12.0	0.009
4 x 0.75	0.6	0.8	6.8	8.6	0.011
4 x 1	0.6	0.9	7.6	9.4	0.010
4 x 1.5	0.7	1.0	9.0	11.0	0.010
4 x 2.5	0.8	1.1	10.5	13.0	0.009
5 x 0.75	0.6	0.9	7.4	9.6	0.011
5 x 1	0.6	0.9	8.3	10.0	0.010
5 x 1.5	0.7	1.1	10.0	12.0	0.010
5 x 2.5	0.8	1.2	11.5	14.0	0.009

BV Type Non Sheathed Cable

227 IEC 01 (BV) Type

227 IEC 05 (BV) Type



227 IEC 01 (BV) (GB 5023.3 -- 1997)

Normal single-core hard conductor cable without sheath

Nor. Section (mm ²)	Conductor Type	Jkt. Thick (mm)	Cable Dimension Max. Dia. (mm)	Min. Insul. resistance @70°C (M Ω . km)
1.5	single	0.7	3.3	0.011
1.5	strand	0.7	3.4	0.010
2.5	single	0.8	0.9	0.010
2.5	strand	0.8	4.2	0.009
4	single	0.8	4.4	0.0085
4	strand	0.8	4.8	0.0077
6	single	0.8	4.9	0.0070
6	strand	0.8	5.4	0.0065
10	strand	1.0	6.4	0.0070
10	strand	1.0	6.8	0.0065
16	strand	1.0	8.0	0.0050
25	strand	1.2	9.8	0.0050
35	strand	1.2	11.0	0.0040
50	strand	1.4	13.0	0.0045
70	strand	1.4	15.0	0.0035
95	strand	1.6	17.0	0.0035
120	strand	1.6	19.0	0.0032
150	strand	1.8	21.0	0.0032
185	strand	2.0	23.5	0.0032

227 IEC 05 (BV) (GB 5023.3 -- 1997)

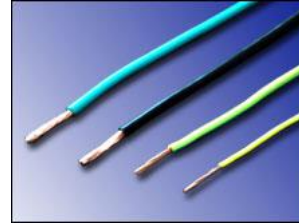
70°C Single core PVC insulated cable for inner arrangement

Nom. Section (mm ²)	Jkt. Thick (mm)	Cable Dimension Max. Dia. (mm)	Min. Insul. resistance @70°C (M Ω . km)
0.5	0.6	2.4	0.015
0.75	0.6	2.6	0.012
1	0.6	2.8	0.011

RV (450 / 750V) and BVR Type Flexible Wire

227 IEC 02 (RV) Type Wire

BVR (450/750V) Type Wire



227 IEC 02 (RV) (GB 5023.3 -- 1997)

Normal single-core flexible conductor cable without sheath

Nom. Section (mm ²)	Jkt. Thick (mm)	Cable Dimension Max. Dia. (mm)	Min. Insul. resistance @70°C (M Ω . km)
1.5	0.7	3.5	0.010
2.5	0.8	4.2	0.009
4	0.8	4.8	0.007
6	0.8	6.3	0.006
10	1.0	7.6	0.0056
16	1.0	8.8	0.0046
25	1.2	11.0	0.0044
35	1.2	12.5	0.0038
50	1.4	14.5	0.0037
70	1.4	17.0	0.0032
95	1.6	19.0	0.0032
120	1.6	21.0	0.0029
150	1.8	23.5	0.0029
185	2.0	26.0	0.0029

BVR (450/750V) (JB 8734.2 -- 1998)

Copper conductor PVC insulated flexible wire

Nom. Section (mm ²)	Num. conductor	Insul. Thick (mm)	Cable Dimension Max. Dia. (mm)	Min. Insul. resistance @20°C (M Ω . km)		Min. Insul. resistance @70°C (M Ω .km)
				Copper	Tinned Copper	
2.5	19	0.8	4.1	7.41	7.56	0.011
4	19	0.8	4.8	4.61	4.70	0.009
6	19	0.8	5.3	3.08	3.11	0.0084
10	49	1.0	6.8	1.83	1.84	0.0084
16	49	1.0	8.1	1.15	1.16	0.0062
25	98	1.2	10.2	0.727	0.734	0.0058
35	133	1.2	11.4	0.524	0.529	0.0052
50	133	1.4	13.9	0.387	0.391	0.0051
70	189	1.4	16.0	0.268	0.270	0.0

BVVB Parallel Cable

BVVB Copper Conductor PVC Insulated

and jacket Parallel Cable

(JB 8734.2 -- 1998)



Nom. Section (mm ²)	core Num.	Insul. Thick (mm)	Mean Overall Dia. (mm)	Cable Dimension (mm)		Min. Insul. resistance @20°C (M Ω . km)	Min. Insul. resistance @70°C (M Ω . km)
				Min.	Max.		
2 x 0.75	1	0.6	0.9	3.8×5.9	4.6×7.1	24.5	0.012
2 x 1.0	1	0.6	0.9	3.9×6.1	4.8×7.4	18.1	0.011
2 x 1.5	1	0.7	0.9	4.4×7.0	5.3×8.5	12.1	0.011
2 x 2.5	1	0.8	1.0	5.1×8.4	6.2×10.1	7.41	0.010
2 x 4	1	0.8	1.0	5.6×9.2	6.7×11.1	4.61	0.0085
2 x 4	7	0.8	1.0	5.7×9.5	6.9×11.5	4.61	0.008
2 x 6	1	0.8	1.1	6.2×10.4	7.5×12.5	3.08	0.007
2 x 6	7	0.8	1.1	6.4×10.8	7.8×13.0	3.08	0.0065
2 x 10	7	1.0	1.2	7.9×13.4	9.5×16.2	1.83	0.0065
3 x 0.75	1	0.6	0.9	3.8×7.9	4.6×9.6	24.5	0.012
3 x 1.0	1	0.7	0.9	3.9×8.4	4.8×10.1	18.1	0.011
3 x 1.5	1	0.8	0.9	4.4×9.6	5.3×11.7	12.1	0.011
3 x 2.5	1	0.8	1.0	5.1×11.6	6.2×14.0	7.41	0.010
3 x 4	1	0.8	1.1	5.8×13.1	7.0×15.8	4.61	0.0085
3 x 4	7	0.8	1.1	5.9×13.5	7.1×16.3	4.61	0.008
3 x 6	1	0.8	1.1	6.2×14.5	7.5×17.5	3.08	0.007
3 x 6	7	0.8	1.1	6.4×15.1	7.8×18.2	3.08	0.0065
3 x 1	7	1.0	1.2	7.9×19.0	9.5×23.0	1.83	0.0065

BVV Light Duty Sheathed Cable

227 IEC 10 (BVV) Light-duty PVC Insulated Cable for Fixed Wiring (JB 5023.4 -- 1997)

Nom. Section (mm ²)	Core No./Dia. (mm)	Insul. Thick (mm)	Jkt. Thick (mm)	Cable Dimension Max. Dia. (mm)	Max. resistance @20°C (MΩ.km)		Min. Insul. resistance @70°C (MΩ.km)
					copper	Tinned copper	
2 x 1.5	1/1.38	0.7	1.2	9.1	12.1	12.2	0.011
	7/0.25			9.4			0.010
2 x 2.5	1/1.76	0.8	1.2	10.3	7.41	7.56	0.010
	7/0.68			10.8			0.009
2 x 4	1/2.25	0.8	1.2	11.2	4.61	4.70	0.0085
	7/0.85			11.8			0.0077
2 x 6	1/2.76	0.8	1.2	12.2	3.08	3.11	0.0070
	7/1.04			12.9			0.0065
2 x 10	7/1.35	1.0	1.4	16.3	1.83	1.84	0.0065
2 x 16	7/1.70	1.0	1.4	18.5	1.15	1.16	0.0052
2 x 25	7/2.14	1.2	1.4	22.2	0.727	0.734	0.0050
3 x 1.5	1/1.38	0.7	1.2	9.45	12.1	12.2	0.011
	7/0.52			9.75			0.010
3 x 2.5	1/1.78	0.8	1.2	10.8	7.41	7.56	0.010
	7/0.68			11.4			0.009
3 x 4	1/2.25	0.8	1.2	11.8	4.61	4.70	0.0085
	7/0.85			12.45			0.0077
3 x 6	1/2.76	0.8	1.4	13.3	3.08	3.11	0.0070
	7/1.04			14.0			0.0065

RVB and RVS Type Flexible Wire

227 IEC 42 (RVB) Flat--type non-sheathed flexible Wire (JB 5023.3 -- 1997)

227 IEC 43 (RVS) Light-duty PVC Insulated PVC sheathed round-type flexible wire (JB 5023.3 -- 1997)

Nom. Section (mm ²)	Core No./Dia.(mm)	Cable Dimension Max. Dia. (mm)	
		RVB	RVS
2×0.12	7/0.15	1.6×3.2	3.2
2×0.2	12/0.15	2.0×4.0	4.0
2×0.3	16/0.15	2.1×4.2	4.2
2×0.4	23/0.15	2.3×4.6	4.6
2×0.5	28/0.15	3.0×6.0	6.0
2×0.75	42/0.15	3.29×6.4	6.0
2×1.0	32/0.20	3.1×6.2	6.2
2×1.5	48/0.20	3.4×6.8	6.8
2×2.0	64/0.20	4.1×8.2	8.2
2×2.5	77/0.20	4.5×9.0	9.0

Carolina Microwave Lightning Arrestors



	LA-3000	LA-5100
Frequency Range	DC-3000 MHz	5100-5900 MHz
Impedance	50 Ohms	
Insertion Loss	0.2 dB	
VSWR	<1.2	
Rated Power	200 Watts	
Discharge Voltage	DC 230V $\pm$ 15%	
Insulation Resistance	> 1000	
Connector	N-Female to N-Female Bulkhead	
Size	58 * 25 * 35 mm	58 * 25 * 35 mm
Weight	140 grams	143 grams

Tools

Tool Kits

Coaxial Tool Kits

1.



Part #: TK-2230B

TK-	CRIMPER	DIE SET FOR MODULAR PLUGS	DIE SET FOR COAX./FIBER OPTIC CONN	OTHERS
2230B	236M (FRAME ONLY)	236-6P DIE 236-8P DIE 236S DIE 336Q DIE	236A DIE 336F1 DIE 336F2 DIE	SCREW DRIVER SCREW x 4PCS.

2.



Part #: TK-4015

TK-	CRIMPER	CUTTER	STRIPPER	PD TOOL	BLADE	COAX.STRIPPER	DIE SET	OTHERS
4015	236A 568R	206	5021S 501A	3140	14 14B	332 32	336C DIE 336G DIE 336J DIE 336K DIE	TESTER SCREW DRIVER

3.



Part #: TK-K3508

TK-	CRIMPER	CABLE SETRIPPER	CUTTER	CONNECTOR
K3508	508	332	A115	CONN*25PCS

4.



Part #: TK-3214

TK-	CRIMPER	COAX.STRIPPER	CUTTER
3210	336A	322	206
3214	336C		
3313	336A	332	
3016	336C		
2230A	236A		

5.



Part #: TK-2314B

TK-	CRIMPER	PD TOOL	STRIPPER	COAX.STRIPPER	BLADE	DIE SET
2314B	236-8P	3140	S501A	332	14 14B	336C DIE 336F1 DIE 336J DIE 236-6P DIE

6.

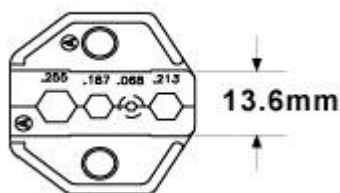


Part #: TK-330K

TK-	CRIMPER	COAX.STRIPPER	CUTTER	DIE SET				OTHERS
330K	236A	332	206	336C DIE	336G DIE	336J DIE	336K DIE	SCREW DRIVER

Die sets 236A, 336F1 & 336F2 are the same as 230A, 301F & 301F2, but with 13.6mm width.

Box Size: 260(L) x 200(W) x 48(H)mm



Fiber Optic Tool Kits



Part #: TK-K3032

Kit Contents	Quantity
Carbide Scribe	1pc
Syringe	2 pcs
Stripper	1 pc
A/B Fast Epoxy Glue	1 pair
Cleanser	1 pc
ST Polish Disc	1 pc
SC Polish Disc	1 pc
Wipe Paper	3 pcs
Kevlar Cutter	1 pc
Glasses Working Pad	1 pc
Crimp Tool	1 pc
(6um-Brown Color) Diamond Polish Film	1 pc
(1 um-Purple Color) Diamond Polish Film	1 pc
(0.05um-White Color) Alum. Oxide Polish Film	1 pc
Rubber Working Pad	1 pc

Modular Tool Kits



Part #: TK-2568G

TK-	CRIMPER	STRIPPER	PLUGS	OTHERS	
2568F	568R	S501A	8P8C*80	.	TESTER
2568G	568R	S501A	8P8C*60	6P6C*30	TESTER

Box Size: 260(L) x 200(W) x 48(H)mm



Part #: TK-2568A

TK-	CRIMPER	STRIPPER	PLUGS	OTHERS	
2568A	568	S501A	8P8C*80	6P6C*30	.
2200A	2008R	S501A	8P8C*60	6P6C*30	4P4C*40

Box Size: 260(L) x 200(W) x 48(H)mm



Part #: TK-2568E

TK-	CRIMPER	PD TOOL	BLADE		PLUGS	
2568B	568R	3140	14	14B	8P8C*30	6P6C*30
2568E	568R					
2500B	500					

Box Size: 260(L) x 200(W) x 48(H)mm



Part #: TK-2500A

TK-	CRIMPER	PD TOOL	STRIPPER	BLADE		PLUGS	
2500A	500	3240	S501A	14	14B	8P8C*30	6P6C*30

Box Size: 260(L) x 200(W) x 48(H)mm



Part #: TK-2000D

TK-	CRIMPER	PLUGS			
2000B	2008	8P8C*20PCS	6P6C*30PCS	4P4C*40PCS	
2000D	2008R				
2568C	568				
2568D	568R				

Box Size: 260(L) x 200(W) x 48(H)mm



Part #: TK-4015

TK-	CRIMPER	CUTTER	STRIPPER	PD TOOL	BLADE	COAX. STRIPPER	DIE SET	OTHERS
4015	236A 568R	206	5021S 501A	3140	14 14B	332 32	336C DIE 336G DIE 336J DIE 336K DIE	TESTER SCREW DRIVER

Box Size: 375(L) x 253(W) x 60(H)mm



Part #: TK-2230B

TK-	CRIMPER	DIE SET FOR MODULAR PLUGS	DIE SET FOR COAX./FIBER OPTIC CONN	OTHERS
2230B	236M (FRAME ONLY)	236-6P DIE 236-8P DIE 236S DIE 336Q DIE	236A DIE 336F1 DIE 336F2 DIE	SCREW DRIVER SCREW x 4PCS.

Die sets 236A, 336F1 & 336F2 are the same as 230A, 301F & 301F2, but with 13.6mm width.

Box Size: 260(L) x 200(W) x 48(H)mm

Compression Waterproof Connectors Crimping Tool

part number: AF-508 Series

spec: 8.5

			BNC Waterproof Connector
Before Crimp		Before	
After Crimp		After	



Works on Augat/T&B Snap-N-Seal™ Connectors, Paladin SealTite™ Connectors, and AIM CATV F waterproof connectors.

AF-	FOR CRIMPING F CONNECTOR	COMPRESSED DISTANCE
508	RG-59(4C), RG-6(5C)	20.30iÀ0.15
508-193	RG-59(4C), RG-6(5C)	19.30iÀ0.15
508-197	RG-59(4C), RG-6(5C)	19.70iÀ0.15
508-207	RG-59(4C), RG-6(5C)	20.70iÀ0.15
508N	RG-59(4C), RG-6(5C) Non-Ratchet Type	20.70iÀ0.15
508BNC	RG-59(4C), RG-6, BNC WATERPROOF CONNECTORS	

Use with AF-332 (2-Blades) or AF-322 (3-Blades) for stripping cable.

Use with AF-206 for cutting cables.

Adjustable Compression Tool

part number: AF-H510

spec: 7.7



Works on Augat/T&B Snap-N-Seal™ Connectors, Paladin2 SealTite Connectors, and AIM CATV F waterproof connectors.

AF-	FOR CRIMPING F CONNECTOR
H510	With adjustment for crimping different length of connectors.

Use with AF-332 (2-Blades) or AF-322 (3-Blades) for stripping cable.

Use with AF-206 for cutting cables.

BNC, TNC, F, N, TWINAX, & FIBER OPTIC Connectors Crimping Tools

DIY- Economic Type



DIY-ECONOMIC TYPE
PART #: AF-242



DIY-ECONOMIC TYPE
AF-102H



DIY-ECONOMIC TYPE
AF-58, AF-59

AF-	FOR CRIMPING "F" CONNECTOR
58	F59 & F56 RINGS
59	

Parallel action.
Surface by nickel plating.

AF-	FOR CRIMPING "F" CONNECTOR
102-H	RG59/62, 6 HEX TYPE
102-O	RG59/62, 8, 11 OVAL TYPE
102-A	RG59/62, 6 OVAL TYPE
242A	RG59/62, 6 HEX TYPE
242	RG59 & ALUMINUM RG6 HEX TYPE
242Q	.324"/.360"/PIN HOLE HEX TYPE

Coaxial Crimping Tool

Die set is unchangeable.

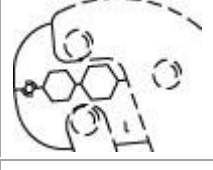
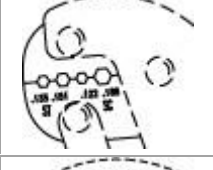
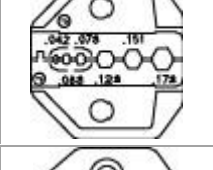
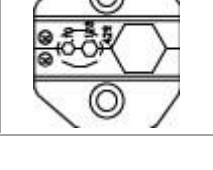


<<AF-106 Series 9"(229mm)

Die Set is riveted on tool, and is unchangeable

<< AF-H116 Series (Ratchet Type) 9"(229mm)

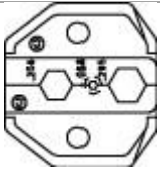
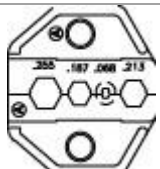
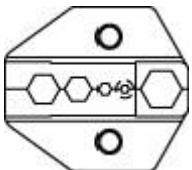
	COMPLETE	REPLACEMENT DIE SET	HEX SIZE	DESCRIPTION
	AF-106C	NO	.255" .322" (6.48/8.20mm)	RG 59, 62, 6
	AF-H116C	YES		
	AF-106D	NO	.255" .213" .068" (6.48/5.40/1.72mm)	RG 58, 59, 62
	AF-H116D	YES		
	AF-106E	NO	.213" .322" .476" (5.40/8.20/11.40mm)	RG 58, 6, 11, 213
	AF-H116E	YES		
	AF-106F	NO	.100" .322" .476"	RG 6, 11, 213

	AF-H116F	YES	(2.54/8.21/12.10mm)	
	AF-106G	NO	100" .322" .448" (2.54/8.20/11.40mm)	RG 6, 11, 213, Belden 8281
	AF-H116G	YES		
	AF-106H	NO	.322" .359" (8.20/9.12mm)	F-59, 62, 6
	AF-H116H	YES		
	AF-106L	NO	100" .359" .406" (2.54/9.12/10.30mm)	F-59, 6, 11 & UHF-58, 8
	AF-H116L	YES		
	AF-106M	NO	.100" .359" .475" (2.54/9.12/12.08mm)	F-59, 6, 11
	AF-H116M	YES		
	AF-106N	NO	133" .151" .122" .188" (3.38/3.84/3.10/4.78mm)	ST/SC FIBER OPTIC
	AF-H116N	YES		
	AF-106P	NO	.095" .386" .453" (2.41/9.80/11.50mm)	-----
	AF-H116P	YES		
	AF-106Q	NO	.324" .470" (8.23/11.94mm)	F-59, 6, 11, 213
	AF-H116Q	YES		
	AF-106QD	NO	.096" .410" .475" (2.44/10.40/12.06mm)	UHF-8, F-11
	AF-H116QD	YES		

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Phone: +1-864-336-0000

	AF-106R	NO	.480" .362" (12.19/9.19mm)	F-59, 6, 11
	AF-H116R	YES		
	AF-106S	NO	.102" .406" (2.60/10.30mm)	UHF-8
	AF-H116S	YES		
	AF-106X	NO	.076" .338" (1.93/8.60mm)	TWINAX CONN
	AF-H116X	YES		
	AF-106Z	NO	.216" .324" .068" (5.48/8.22/1.72mm)	RG 58, 6

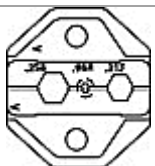
Ratchet Crimping Tool with Interchangeable Die Set

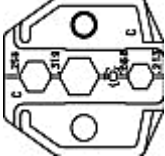
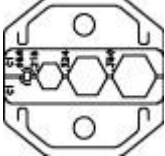
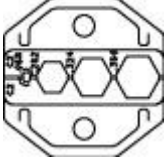
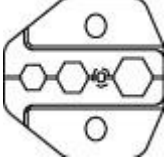
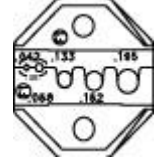
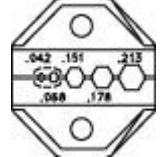
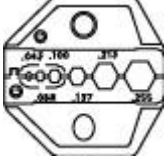
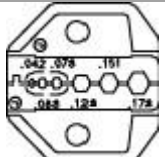


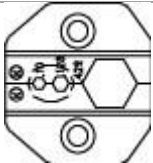
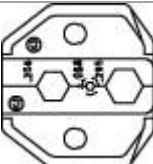
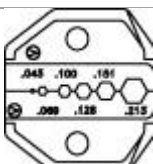
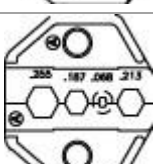
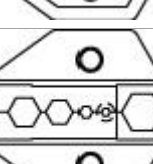
<<AF-336Fm(Frame Only) 8.7"(220mm)

Die Sets are interchangeable, except AF-311M, AF-301X and AF-301



	COMPLETE	REPLACEMENT DIE SET	HEX AIZE	DESCRIPTION
	AF-336FM	-----	-----	Frame Only
	AF-336A	AF-336A DIE	.256" .068" .213" (6.50/1.72/5.41mm)	RG 58, 59, 62

	AF-336C	AF-336C DIE	.256" .319" .068" .213" (6.50/8.10/1.72/5.41mm)	RG 58, 59, 62, 6
	AF-336C1	AF-336C1 DIE	.068" .216" .324" .360" (1.72/6.65/8.23/9.14mm)	F-59, 62, 6
	AF-336C2	AF-336C2 DIE	.068" .262" .324" .360" (1.72/6.65/8.23/9.14mm)	CATV "F" connectors RG 59, 6
	AF-336D	AF-336D DIE	.213" .256" .068" .324" (5.41/6.50/1.72/8.23mm)	RG 58, 59, 62, 6
	AF-336F1	AF-336F1 DIE	.042" .068" .133" .162" .195" (1.07/1.72/3.38/4.11/4.95mm).	Fiber Optic SMA(Oval Type)
	AF-336F2	AF-336F2 DIE	.042" .068" .151" .178" .213" (1.07/1.72/3.84/4.52/5.41mm).	Fiber Optic SMA,SMB Connectors RG 58, 174, Belden 8281
	AF-336G	AF-336G DIE	.043" .068" .100" .137" .213" .255" (1.09/1.72/2.54/3.48/5.41/6.48mm)	RG 58, 59, 62, 174 Fiber Optic
	AF-336FM	-----	-----	Frame Only
	AF-336J	AF-336J DIE	.042" .068" .078" .128" .151" .178" (1.07/1.72/1.98/3.25/3.25/3.84/4.52mm)	RG 174, 179 Belden 8218 Fiber Optic

	AF-336K	AF-336K DIE	.100" .128" .429" (2.54/3.25/10.90mm)	RG 8, 11, 174, 179, 213
	AF-336K	AF-336K3 DIE	.256" .068" .295" (6.50/1.72/7.49mm)	RG 59, 6
	AF-336V	AF-33KV DIE	.043" .069" .100" .128" .151" .213" (1.09/1.75/2.54/ 3.25/3.84/5.41mm)	SMA, SMB, SMC, MCX
	AF-236A	AF-236A DIE	.255" .187" .068" .213" (6.48/4.75/1.72/5.41mm)	RG 58, 59, 62, 174
	AF-236I	AF-236I DIE	.248" .213" . 100" .068" .324" (6.48/5.41/ 2.50/1.72/8.23mm)	RG 58, 59, 6, 174
	AF-236PA	AF-236PA DIE	.255" .213" . 100" .068" .324" (6.48/5.41/ 2.50/1.72/8.23mm)	RG 58, 59, 62, 6
	AF-236HI	AF-236H1 DIE	.255" .320" .350" (6.48/8.13/8.90mm)	CATV F Connectors RG 59, 6

Terminals Crimping Tool



Frame made of steel with cushion handles for comfortable operation.



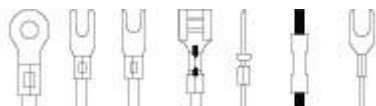
AF-	CRIMPING NON-INS TERMINAL SIZE					
504	AWG	20-18	14-16	12-10	8	6
	DINmmxmmii	1.5	2.5	6	10	16
	JIS mmxmm	1.25	2	5.5	8	14
504A	AWG	8	6	4	2	.
	DINmmxmm	10	16	25	35	.
	JIS mmxmm	8	14	22	38	.



Crimper made of carbonsteel and hardened.

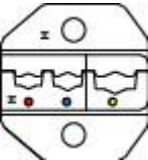
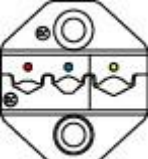
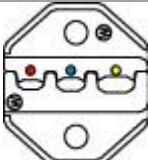
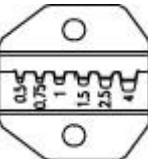
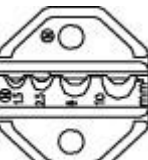


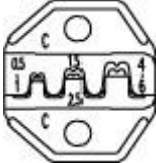
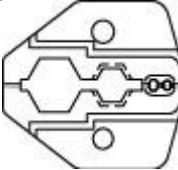
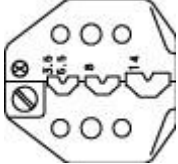
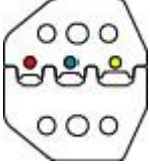
AF-	CRIMPING NON-INS TERMINAL SIZE			
303 Economic Type	AWG mmxmm	(RED) 22-180.5-1	(BLUE) 16-141.5-2.5	(YELLOW) 12-104-6
482 Deluxe Type	AWG mmxmm	(RED) 22-180.5-1	(BLUE) 16-141.5-2.5	(YELLOW) 12-104-6



AF-	DESCRIPTION
202A	CRIMPING D-SUB 26-28 AWG WIRE, (BUTT - INS.)CONNECTORS 22-26 AWG WIRE, (TELEPHONE)SPADE LUGS 22-26 AWG WIRE AND (NON - INS.)(SOLDER) CONNECTORS 14 22 AWG.
202B	AND NON-INS. TERMINAL (SOLDER) 10-22 AWG22-26 AWG, TELEPHONE SPADE LUG 22-26 AWG,CRIMPING BUTT-INSULATED CONNECTORS(5.5 - 0.35mm2)

8.7" Ratchet Type, with interchangeable die set

	COMPLETE TOOL	REPLACEMENT DIE SET	HEX SIZE	DESCRIPTION
	AF-336FM	-----	-----	Frame Only
	AF-336H	AF-336H DIE	AWG 22-18 /16-14 /12-10 DIN 0.5-1.0/1.5-2.5/4-6mm*mm	FOR INSULATED TERMINAL 
	AF-336R	AF-336R DIE	AWG 22-18 /16-14 /12-10 JIS 1.25 /2.0 /5.5 mm*mm	VINYL INSULATED W/O COPPER SLEEVE 
	AF-336W	AF-336W DIE	AWG 22-18 /16-14 /12-10 JIS 1.25 /2.0 /5.5 mm*mm	FOR INSULATED TERMINAL 
	AF-336E	AF-336E DIE	AWG 20 /18 /16 /14 /12 DIE 0.5-1.0/1.5-2.5/4-6mm*mm	PIN TERMINAL INSULATED OR NON- INSULATED FERRULES 
	AF-336S	AF-336S DIE	AWG 10 /8 /6 DIN 6 /10 /16 mm*mm	PIN TERMINAL INSULATED OR NON- INSULATED FERRULES 
	AF-336N	AF-336N DIE	AGW 20-18 /16-14 /12-10 /8 DIN 1.5 /2.5 /6 /10mm*mm JIS 1.25 /2.0/5.5 /8 mm*mm	NON-INSULATED TERMINAL 

	AF-336U	AF-336U DIE	AGW 14-2	NON-INSULATED OPEN BARREL & D-SUB, V.35 CONNECTORS 
	AF-236C	AF-236C DIE	AGW 20-10 /16-14 /12-10	INTER-LOCKING & NON-INSULATED 
	AF-311M	AF-311M DIE Is unchangeable	.449" .346" .079" .058" .276" .071" .063" (11.4/8.80/2.00/1.48/ 7.00/1.80/1.60mm)	7C, 5C, 4C
	AF-301X	AF-301X DIE Is unchangeable	AWG 14 /12-10 /8 /6 JIS 3.5/ 5.5 /8 /14 mm*mm	B-TYPE CONN 
	AF-301	AF-301 DIE Is unchangeable	AWG 22-18 /16-14 /12-10 DIN 0.5-1.0 /1.5-2.5 /4-6 mm*mm	FOR INSULATED TERMINAL 

Coaxial Cable Cutter and Stripper



DIY Type Coaxial Cable Cutter & Stripper

AF-	DESCRIPTION
C226	RG 6 / 58 / 59 With additional simple crimping function on F-59 & F-56 Ring
Made of carbon steel and hardened with black oxide finished.	

Forging Cable Cutter



AF-	FOR COPPER CABLE	FOR ALUMINUM CABLE
A201	16 mmxmm SOLID	70 mmxmm STRANDED
	35 mmxmm STRANDED	
	70 mmxmm FLEXIBLE	



Cable Cutter

AF-	FOR CUTTING
203	6.5" L CUTS WIRE O.D, UP TO 0.41"(10.5mm ϕ)
227	8.5" L CUTS WIRE O.D, UP TO 0.75"(19.1mm ϕ)



Coaxial Cable Stripper 1-Blade Model

1-Blade Model

Body made of ABS

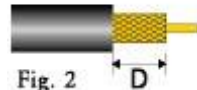
Stripping cables by 2 steps.

1.Slot "A" for stripping center core.

2.Slot "B" for stripping outer jacket.

Rotating each 3 to 5 times in clockwise direction (as arrow).

AF-	FOR STRIPPING RG CABLE
501N	RG-58/59/62/6

AF-	FOR STRIPPING RG CABLE	STRIPPING DISTANCE
322C1	RG-8 / 11 / 213	2 BLADES MODEL  Fig. 2 322C1 D=6.4mm (1/2") 322C2 D=3.2mm (1/4")
322C2	RG-8 / 11 / 213	
322C3	RG-58 / 59 / 6	



Coaxial Cable Stripper 1-Blade Model

1-Blade Model

Body made of ABS

Stripping cables by 2 steps.

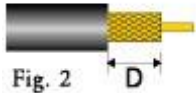
1.Slot "A" for stripping center core.

2.Slot "B" for stripping outer jacket.

Rotating each 3 to 5 times in clockwise direction (as arrow).

AF-	FOR STRIPPING RG CABLE
501N	RG-58/59/62/6

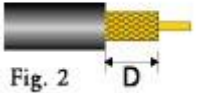
AF-	FOR STRIPPING RG CABLE	STRIPPING DISTANCE

322C1	RG-8 / 11 / 213	2 BLADES MODEL  Fig. 2 322C1 D=6.4mm (1/2") 322C2 D=3.2mm (1/4")
322C2	RG-8 / 11 / 213	
322C3	RG-58 / 59 / 6	



Coaxial Cable Stripper 2-Blades Model

Stripping the coaxial jacket and inner conductor in one operation by rotating the stripper in clockwise direction 3-6 times, easy and effective.
For stripping different materials of cable, use the built-in hex key to align the sensitive socket and adjust the blade for good results.

AF-	FOR STRIPPING RG CABLE	STRIPPING DISTANCE
332	RG-58/59/62/6/6QS/3C/4C/5C	2 BLADES MODEL  Fig. 2 302 SERIES D=6, 8mm 332 SERIES D=4, 6, 8, 12mm
332A	RG-59/62/6/4C/5C	
332B	RG-58/59/62/3C/4C	
332D	RG-174	
302A	RG-59/62/6/4C/5C	
302B	RG-58/59/62/3C/4C	
322S	RG-8/11/213	

Replacement Blade:

AF-302 series - - AF-3021, AF-312 series - - 3121

AF-332 series - - AF-3321, AF-322 series - - 3221

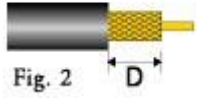
Special requirement is available.



Coaxial Cable Stripper 2-Blades Model

Stripping the coaxial jacket and inner conductor in one operation by rotating the stripper in clockwise direction 3-6 times, easy and effective.

For stripping different materials of cable, use the built-inhex key to align the sensitive socket and adjust the blade for good results.

AF-	FOR STRIPPING RG CABLE	STRIPPING DISTANCE
332	RG-58/59/62/6/6QS/3C/4C/5C	2 BLADES MODEL  Fig. 2 302 SERIES D=6, 8mm 332 SERIES D=4, 6, 8, 12mm
332A	RG-59/62/6/4C/5C	
332B	RG-58/59/62/3C/4C	
332D	RG-174	
302A	RG-59/62/6/4C/5C	
302B	RG-58/59/62/3C/4C	
322S	RG-8/11/213	

Replacement Blade:

AF-302 series - - AF-3021, AF-312 series - - 3121

AF-332 series - - AF-3321, AF-322 series - - 3221

Special requirement is available.



Coaxial Cable Stripper 3-Blades Model

3-Blades Model

AF-322 with streamlined design, no replacement cassette is needed and no adjustment for V-Block. Tool has been preset for RG58/59/6.

For stripping different materials of cable, use the built-in hex key to align the sensitive socket and adjust the blade for good results.

AF-	FOR STRIPPING RG CABLE	STRIPPING DISTANCE
322	RG-58/59/6	3 BLADES MODEL Fig 1
312A	RG-59/62/6/4C/5C	
312B	RG-58/59/62/3C/4C	
312X	FOR CABLE O.D. FROM 3.5 mm - 5 mm	
312S 322S3	FOR BIG CABLE O.D. AROUND 10.5 mm SUCH AS RG-213	

Adjustable Cable Slitter

AF-325 Series>>
6" (150mm)
AF-335 Series
6.6" (167mm)



AF-325B Series>>
6" (150mm)
AF-335B Series
6.6" (167mm)



W/Adjustable
Tension



Laser Calibration

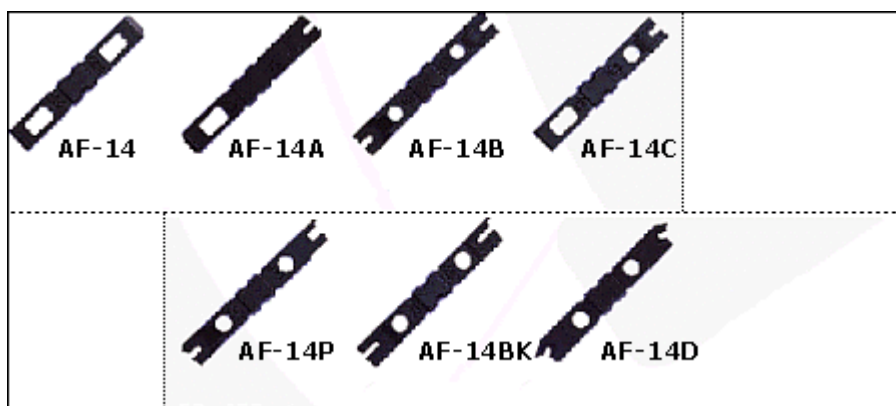
AF-	BLADE HOLDER	STRIP DIMENSION
325	PLASTIC	Strip cables from 4.5-25 mm(18"-10") diameter
325B	METAL	
335	PLASTIC	Strip cables from 25-36 mm(10"-14")

Economic Punch Down Tool



1. AF-3340 Series is economic type w/o impact function.
2. Blades are made of hardened SNCM-21. All are interchangeable and reversible.

Complete Tool	Handle	BLADE	FOR TERMINAL BLOCK
AF-324	AF-3240	AF-14	USE ON 66 TYPEYES
AF-324A		AF-14A	USE ON 66 & 110/88 TYPE
AF-324B		AF-14B	USE ON 110/88 TYPE
AF-324C		AF-14C	USE ON 66 & 110/88 TYPE (W/O CUTS)
AF-324D		AF-14D	USE ON 630A MODULAR PHONE JACK
AF-324BK		AF-14BK	USE ON KRONE YTYPE
AF-324P		AF-14P	USE ON PANASONIC & 110 TYPE



Impact Punch Down Tool



1. With adjustable impact pressure control.
2. The storage on the top of tool is for storing on piece of spare blade.
3. Blades are interchangeable and reversible.

Complete Tool	Handle	BLADE	FOR TERMINAL BLOCK
AF-314	AF-3140	AF-14	USE ON 66 TYPEYES
AF-314A		AF-14A	USE ON 66 & 110/88 TYPE
AF-314B		AF-14B	USE ON 110/88 TYPE
AF-314C		AF-14C	USE ON 66& 110/88 TYPE
AF-314D		AF-14D	USE ON 630A MODULAR PHONE JACK
AF-314BK		AF-14BK	USE ON KRONE TYPE
AF-314P		AF-14P	USE ON PANASONIC & 110 TYPE



AF-3240 series is with impact function w/o adjustable impact pressure control

Complete Tool	Handle	BLADE	FOR TERMINAL BLOCK
AF-324	AF-3240	AF-14	USE ON 66 TYPEYES
AF-324A		AF-14A	USE ON 66 & 110/88 TYPE
AF-324B		AF-14B	USE ON 110/88 TYPE
AF-324C		AF-14C	USE ON 66 & 110/88 TYPE (W/O CUTS)
AF-324D		AF-14D	USE ON 630A MODULAR PHONE JACK
AF-324BK		AF-14BK	USE ON KRONE TYPE

AF-324P	AF-14P	USE ON PANASONIC & 110 TYPE

Northern Telecom Type Punch Down Tool



1. Insertion Tool of Northern Telecom Type.
2. Spring loaded for seating and removing wires easily.

Complete Tool	DESCRIPTION
AF-320	FOR SEATING WIRE INTO NORTHERN TELECOM TERMINAL BLOCK

Krone / Bix Type Punch Down Tool



1. AF-344 series is with a loaded spring key for changing blades effectively.
2. A built-in combination hook/spludger for tracing and removing wires.
3. With adjustable On-Off impact selector.

Complete Tool	Handle	REPLACEMENT HEAD	DESCRIPTION
AF-344KR	AF-3440	AF-44KR	USE ON KRONE & 110 TERMINAL BLOCK
AF-344W		AF-44W	USE ON BIX TYPE TERMINAL BLOCK

Non-Impact Punch Down Tool



- 1.AF-3540 series is non-impact type.
- 2.TPR soft-grip handle provides better comfort.
- 3.Twist-lock style holder provides quick, easy blade changes and prevents pullout. An additional safe storage for one more spare blade
- 4.Interchangeable and reversible blades.

Complete Tool	Handle	BLADE	FOR TERMINAL BLOCK
AF-354	AF-3540 (Twist-lock type)	AF-14T	USE ON 66 TYPE
AF-354A		AF-14A	USE ON 66 & 110/88 TYPE
AF-354B		AF-14B	USE ON 110/88 TYPE
AF-354BK		AF-14BK	USE ON KRONE TYPE
AF-354K		AF-14TK	USE ON KRONE TYPE(W/SCISSOR)
AF-354W		AF-14TW	USE ON BIX TYPE
AF-354Q		AF-14TQ	USE ON QUANTE TYPE

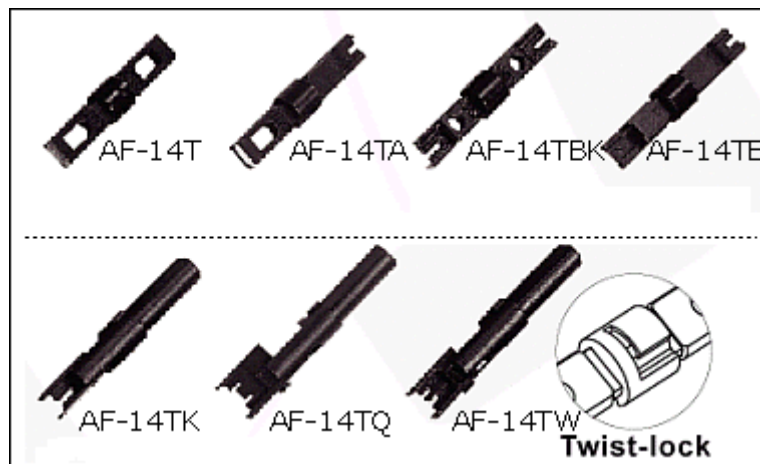
Professional Punch Down Tool



For Seating wire into terminal block or cut off wire end after terminated.

1. AF-3640R series is with impact & adjustable Hi-Lo pressure selector.
2. A built-in combination hook/spludger for tracing and removing wires.
3. TPR soft-grip handle provides better comfort.
4. Twist-lock style holder provides quick, easy blade changes and prevents pullout. An additional safe storage for one more spare blade
5. Interchangeable and reversible blades.

Complete Tool	Handle	BLADE	FOR TERMINAL BLOCK
AF-364R	AF-3640R (Twist-lock type)	AF-14T	USE ON 66 TYPE
AF-364AR		AF-14TA	USE ON 66 & 110/88 YTYPE
AF-364BR		AF-14TB	USE ON 110/88 TYPE
AF-364BKR		AF-14TBK	USE ON KRONE TYPE
AF-364KR		AF-14TK	USE ON KRONE TYPE (W/SCISSOR)
AF-364WR		AF-14TW	USE ON BIX TYPE
AF-364QR		AF-14TQ	USE ON QUANTE TYPE



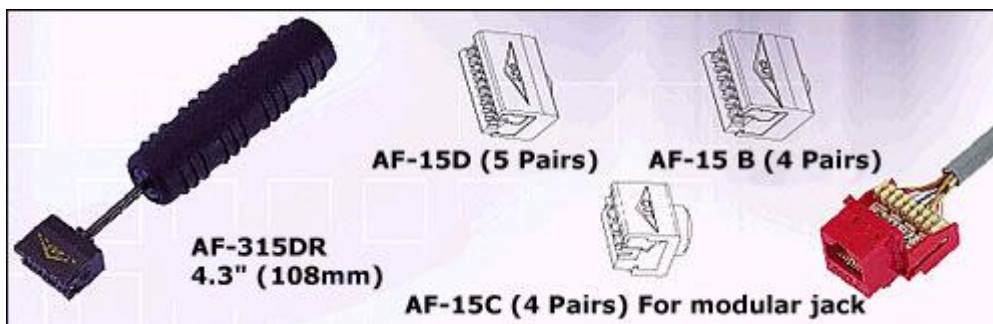
5 or 4 Pairs Type 110 Punch Down Tool



AF-315DR 5 Pairs 110 Punch Down Tool

1. For use on Lan and Telecom, seating 4 or 5 pairs UTP (24 AWG) at a time.
2. Suitable for both 110 type cable side and cross-connect sideterminals blocks.
3. The termination block heel w/blades are changeable and reversible. One end for seating and cutting off wires, and the other end for seating wires only.

AF-	FRAME	BLADE	FOR TERMINAL BLOCK
315BR	AF-3150R	AF-15B	USE ON 110 TYPE (4PAIRS)
315BKR		AF-15BK	USE ON KRONE TYPE (4PAIRS)
315CR		AF-15C	USE ON MODULAR JACK (4PAIRS)
315DR		AF-15D	USE ON 110 TYPE (5PAIRS)



Kevlar Scissors



Made of alloy steel and hardened, with chromedplating

AF-	STRIPPING SIZE
C151	FOR CUTTING KEVLAR OF FIBER OPTIC CABLE

Fiber Optic Stripping Tool



Body made of ABS
Cutter made of SK-5

AF-	STRIPPING SIZE
342	.36" STRIPPER FOR GLASS FIBER OPTIC Φ 0.254mm(0.010") & 0.32mm(0.0125")
342A	.36" STRIPPER FOR GLASS FIBER OPTIC Φ 0.23mm(0.040")



Middle Carbon Steel with hardened & Black Oxide Finished.

AF-	STRIPPING SIZE
223H	Three stripping guides for outer jacket, 250 μ m fiber and 125 μ m buffer coating. W / Adjusting Mechanism for special gauges.

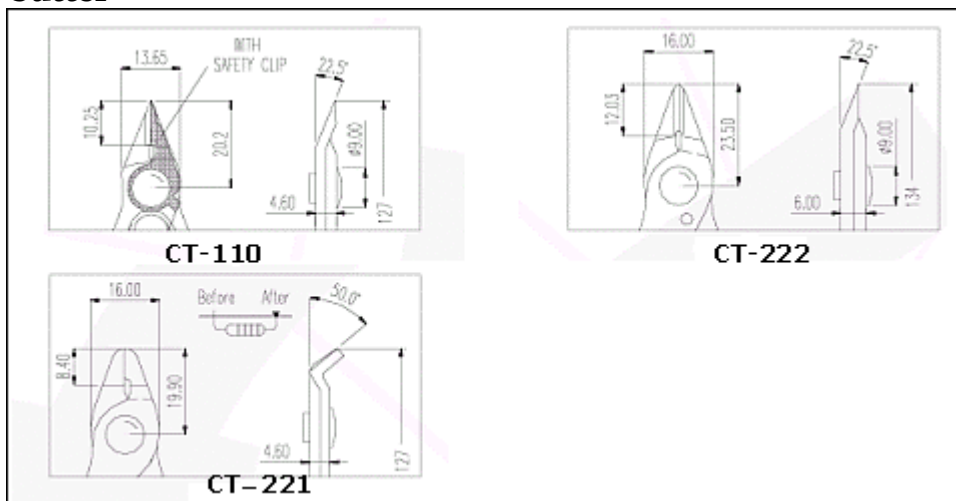
Fiber Optic Crimping Tool

Made of carbon steel and hardened with blackoxide finished.

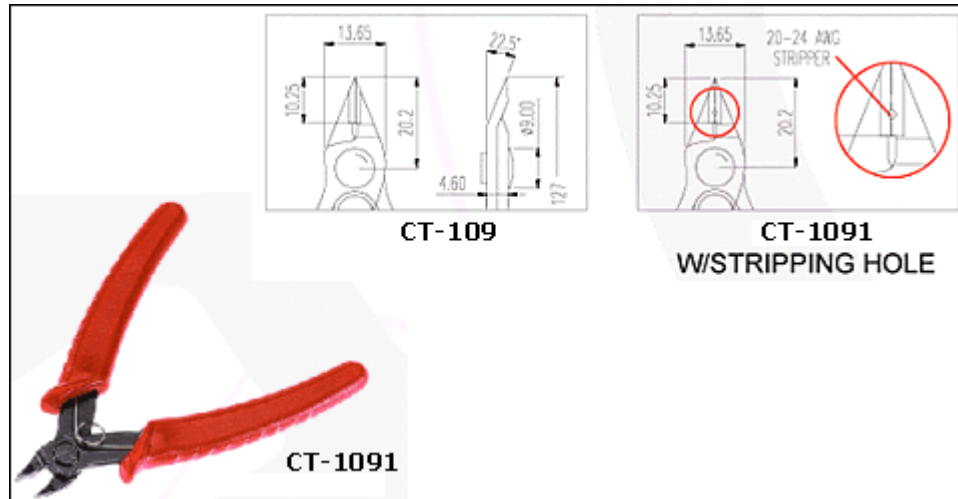


AF-	FOR CRIMPING MODULAR PLUG
336F1	.042" .068" .133" .162" .195" (OVAL TYPE)
336F2	.042" .068" .155" .178" .213"
336G	.043" .068" .100" .137" .213" .255"
336J	.042" .068" .078" .128" .151" .178"
106N	.133" .151" .122" .188"

Cutter

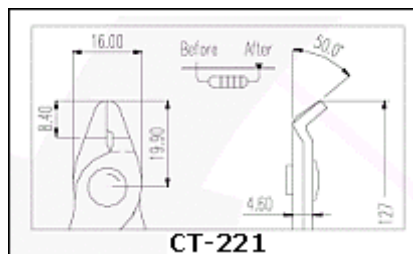


CT-	FOR SHARPLY CUTTING. RIVETING SAFE CLIP ON ONE BLADE THAT CAN HOLD THE FLUSH - LEAD AFTER CUTTING OPERATION



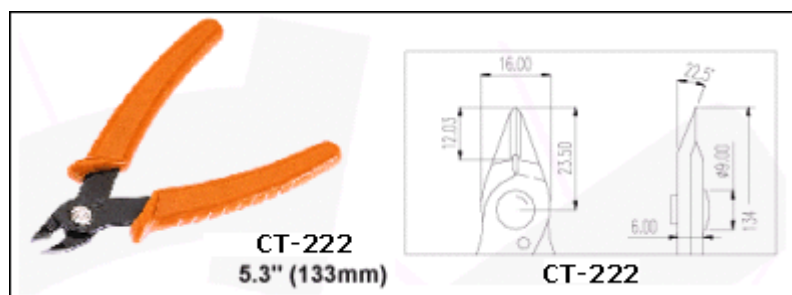
CT-	DESCRIPTION
109	ELECTRICAL CUTTER, FOR LEAD & SOFT MATERIAL USE.
1091	FLUSH CUTTING & W/STRIPPING HOLE FOR WIRE FROM 20-24 AWG (0.5φ-0.8φmm)

Cutting & Trimming Tool



CT-221	CUTTING & TRIMMING COMPONENT ENDS LEAD TO P.C. BOARD BEFORE SOLDERING.

Precise Electrical Cutter



CT-222	MADE BY ALLOY STEEL WITH THICK PE HANDLES. CUT UP TO 18 AWG OR 1MM COPPER OR SOFT METAL MATERIAL THICKNESS: 3.0mm

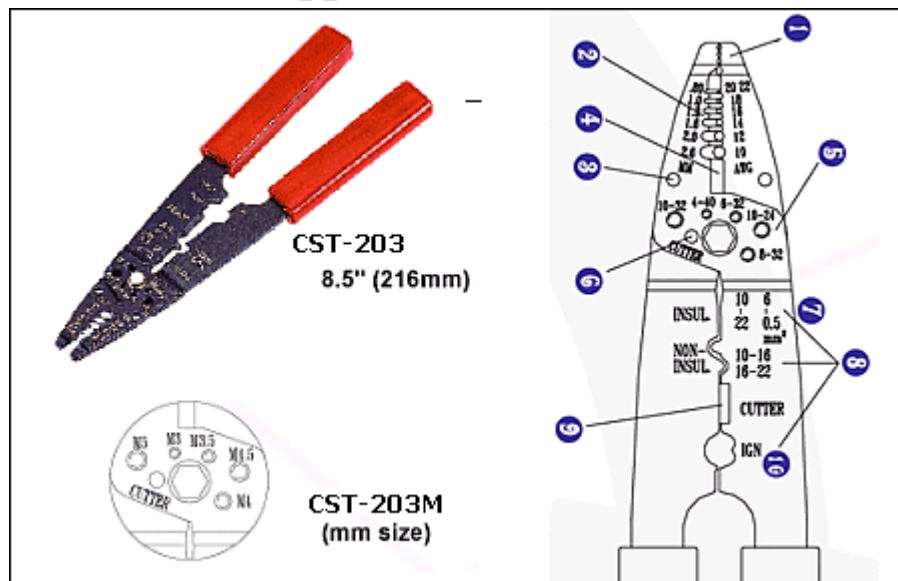
Cutter & Stripper



CST-	STRIPPING WIRE SIZE
223	AWG: 30-10 (UP TO 0.5~4.0mm), W/GRINDING
108	AWG: 30-10 (UP TO 0.5~4.0mm), W/O GRINDING

Made of carbon steel and harden.

Multi-Functions Cutter & Stripper



8.5" for all functions precise crimping tool
MT":3.2mm middle carbon steel

CNC Grinding

CST-	MULTI-PURPOSE TOOL 10 FUNCTIONS IN 1
203	1 CLAMPER 2 STRIPPING 22-10 AWG WIRE 3 LOOPING 3mm WIRE 4 CUTTING Cu, Al SOFT WIRE 5 CUTTING BOLT 4-40, 6-32, 8-32, 10-24, 10-32 (inch size) 6 CUTTING 3mm STEEL WIRE 7 CRIMPING INS. TERMINALS 10-22 AWG 6 - 0.5mm ² 8 CRIMPING NON - INS. TERMINALS 10 - 22 AWG WIRE 9 CUTTING SOLID WIRE 10 CRIMPING IGNITION TERMINALS
203M	Same as HT-203 but the bolt cutter is in mm size

7 in 1 Cutter & Stripper



1. 6.8". 7 in 1 crimping tools.
2. Wire stripper, wire cutter, steel wire cutter, pliers, wire loop, scale mm & inch, crimping tool.

CST-	STRIPPING WIRE SIZE					
1041	AWG	18	16	14	12	10
	mm	0.9	1.25	2.0	3.5	5.5
1042	AWG	26, 24	22	20	18	16
	mm	0.2	0.35	0.5	0.9	1.25
1043	AWG	30	28	26	24	22
	mm	0.25	0.32	0.4	0.6	0.65

5 in 1, Deluxe Cutter & Stripper

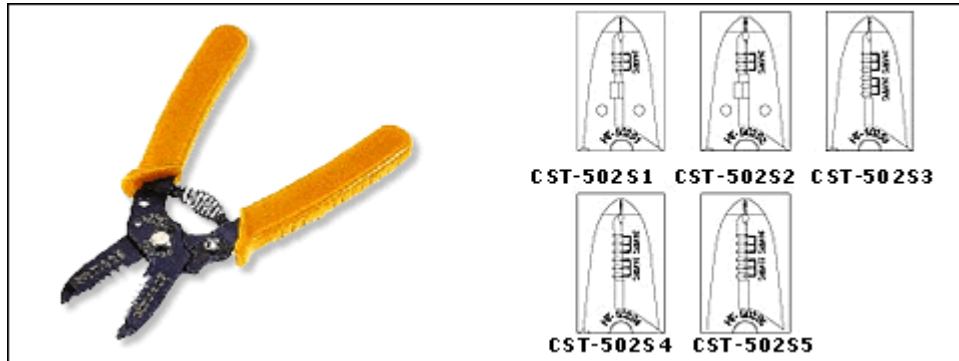


1. 6 5/16" multipurpose precise cutter & stripper
2. Sharp front edge machine processing.
3. Serrated clasper, wire stripper, wire cutter, wire loop & steel wire cutter.
4. Laser marked gauges including AWG & MM.
5. PVC handles provide added comfort
6. CNC GRINDING

CST-	STRIPPING WIRE SIZE							
S141	AWG	STRANDED SINGLE	12	14	16	18	20	22
			10	12	14	16	18	20
	mm		2.6	2.0	1.6	1.3	1.0	0.8
S142	AWG	STRANDED SINGLE	16	18	20	22	24	26
			14	16	18	20	22	24
	mm		1.6	1.3	1.0	0.8	0.6	0.5
S143	AWG	STRANDED SINGLE	22	24	26	28	30	--
			20	22	24	26	28	30
	mm		0.8	0.6	0.5	0.4	0.32	0.25

Special stripping sizes are welcome.

5 in 1, Precise Cutter & Stripper



1. 6.6" 5 in 1, precise cutter & stripper with comfortable thickness handle.
2. Made by CNC grinding.
3. Wire stripper, wire cutter, steel wire cutter, pliers, wire loop with grinding blades for sharp cutter & stripper.
4. Laser marked gauges including AMG & MM.

CST-	APPLICABLE FOR STRIPPING WIRE SIZE								
5021	AWG	STRANDED SINGLE	12 10	14 12	16 14	18 16	20 18	22 20	24 22
		mm	2.6	2.0	1.6	1.3	1.0	0.8	0.6
5022	AWG	STRANDED SINGLE	.	16 14	18 16	20 18	22 20	24 22	26 24
		mm	.	1.6	1.3	1.0	0.8	0.6	0.5
5023	AWG	STRANDED SINGLE	.	22 20	24 22	26 24	28 26	30 28	-- 30
		mm	.	0.8	0.6	0.5	0.4	0.32	0.25
502S1	24 AWG (Strips 3 in 1)								
502S2	26 AWG (Strips 3 in 1)								
502S3	24, 28 AWG (Strips 3 in 1)								
502S4	26, 28 AWG (Strips 3 in 1)								
502S5	22, 30 AWG (Strips 3 in 1)								

Torque Spanner Tool



<< **AF- 601A, AF- 601B**

7.35" (187mm)

1. Adjustable torque
2. TPR soft-grip handle provides better comfort

AF-	DIMENTION
601A	5/8"
601B	7/16"

4 in 1 for CATV Multi Taps Socket Tool



<< AF- 317

1. LENGTH: 173*150*18 MM
2. ELECTRICAL INSULATION PROTECTION

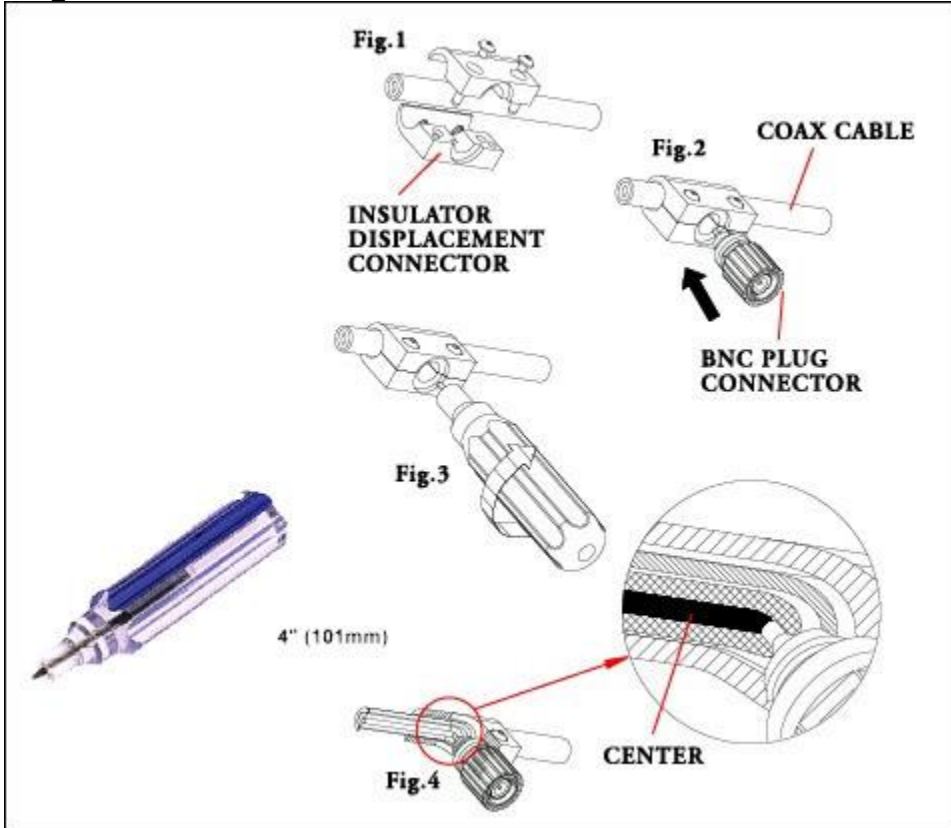
AF-	DESCRIPTION
317	Four dimension (0.19" ,.32" ,.44" ,.51") for efficient work

Heat Sink

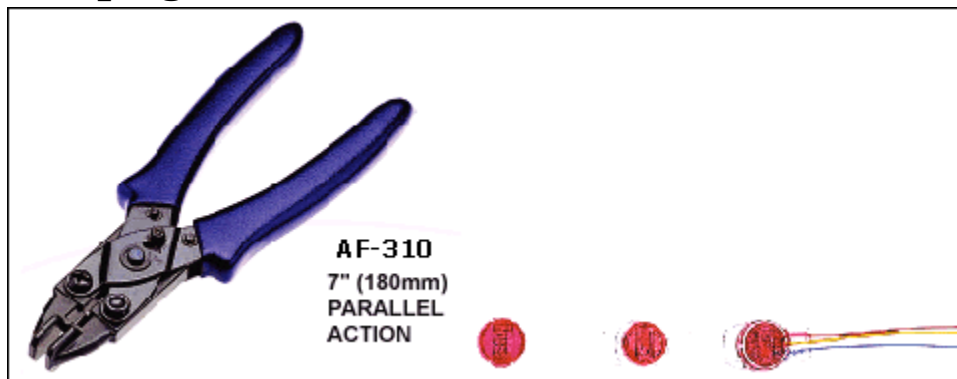


AF-156	HEATSINK, ABSORBS HEAT DURING SOLDERING / DESOLDERING SENSITIVE PARTS. 2.6" L, HIGH CARBON STEEL, HARDENED & WITH PVC COATING IN HANDLE.

Tap Tool



UR, UY, UG Crimping Tool



AF-	Crimping Size			
310Deluxe Type	AWG	19-26(UR)	22-26(UY)	19-26(UG)
105Economic Type	AWG	19-26(UR)	22-26(UY)	19-26(UG)

F Connector Removal

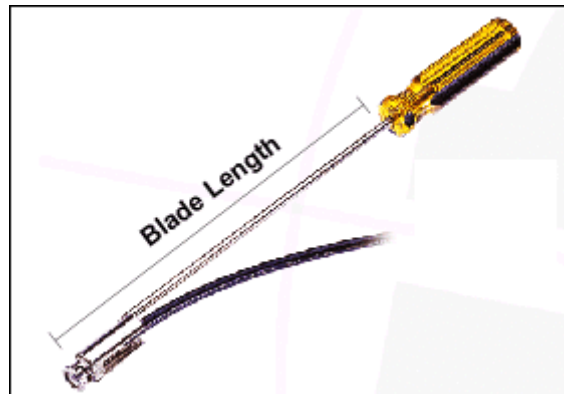


For security system use.

Remove F connectors in high density or hard-to-reach locations.

AF-	BLADE LENGTH	F
2216	16" (410±2mm)	YES
2212	12" (410±2mm)	YES
2208	8" (410±2mm)	YES
2206	6" (410±2mm)	YES

BNC Connector Removal Tool

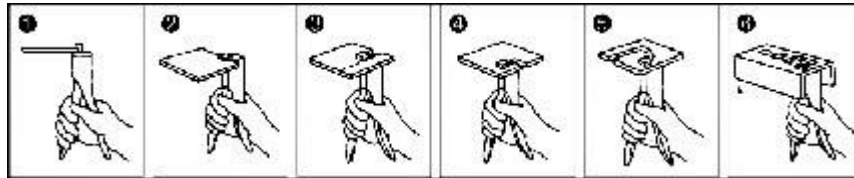


For security system use.

Remove BNC connectors in high density or hard-to-reach locations.

AF-	BLADE LENGTH	BNC
2216	16" (410±2mm)	YES
2212	12" (308±2mm)	YES
2208	8" (206±2mm)	YES
2206	6" (156±2mm)	YES

Nibbling Tool

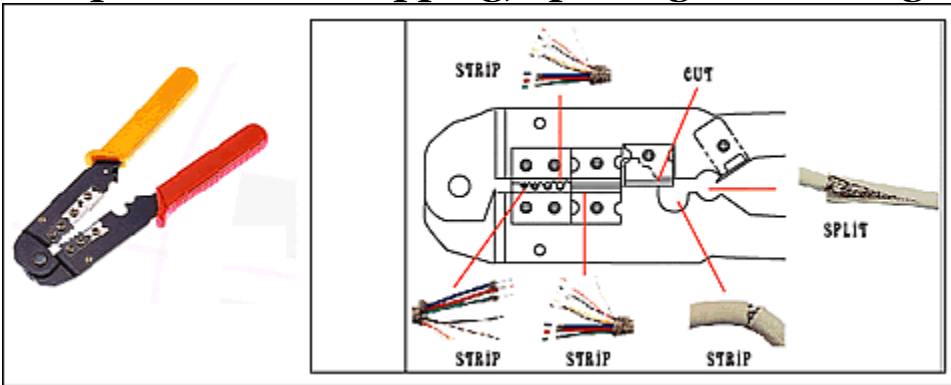


AF-204

CUTS SHEET PLATE LIKE CHASSIS PUNCH CUTS UP TO 18 AWG SOFT METAL, 1/16" SOFTPLATE FOR INSIDE SHAPE DRILLED A 3/8" OR 9.5Φ HOLE FOR STARTING CUTS.

1. Material to be nibbled is placed in the gap between the punch and blade channel.
2. By squeezing the handles together, the punch will move down into the channel, cutting out a slug of metal.
3. A scribe line can be followed by looking down on work in this position. A slot is cut by making successive cuts.
4. To make a sharp 90 degrees turn, pull the tool out of the slot. Turn the work 90 degrees and insert the tool again.
5. By turning the tool before each cut, a 5/16" (7.9mm) minimum radius can be cut.
6. Almost any size or shape hole can be cut by starting with a 3/8" (9.5mm) hole.

Computer Cable Stripping, Splitting and Cutting Tool



Waveguides

Waveguide Frequency Chart	
WAVEGUIDE SIZE	FREQUENCY RANGE (GHz)
WR-28	26.5 - 40.0
WR-34	22.0 - 33.0
WR-42	18.0 - 26.5
WR-51	15.0 - 22.0
WR-62	12.4 - 18.0
WR-75	10.0 - 15.0
WR-90 / CPR-90G	8.2 - 12.4
WR-102	7.0 - 11.0
WR-112 / CPR-112G	7.05 - 10.0
WR-137 / CPR-137G	5.85 - 8.2
WR-159 / CPR-159G	4.9 - 7.05
WR-187 / CPR-187G	3.95 - 5.85
WR-229 / CPR-229G	3.3 - 4.9
WR-284 / CPR-284G	2.6 - 3.95
WR-430 / CPR-430G	1.7 - 2.6

Coax to Waveguide Adapters

Specifications:

- VSWR.....1.25 Max
- Coax Connector.....Type N Female (Series CWA-NF), SMA Female (Series CWA-SMAF)

Material:

- Housing.....Aluminum
- Connector.....per MIL-C-39012
- Flange Type.....Cover Standard
- Finish.....per MIL-C-22750

Options:

- For brass material, add B to basic model number.
- For choke flange, precede model number with C.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-CWA-SMAF
- Other connector types available
- Lower VSWR specs available over narrow frequency bandwidths
- End launch version available in limited bandwidths

Freq. Range (GHz)	Waveguide Size	Type N Connector	SMA Connector
1.12-1.70	WR650	650-CWA-NF	650-CWA-SMAF
1.70-2.60	WR430	430-CWA-NF	430-CWA-SMAF
2.10-3.00	WR340	340-CWA-NF	340-CWA-SMAF
2.60-3.95	WR-284	284-CWA-NF	284-CWA-SMAF
3.30-4.90	WR229	229-CWA-NF	229-CWA-SMAF
3.95-5.85	WR187	187-CWA-NF	187-CWA-SMAF
4.90-7.05	WR159	159-CWA-NF	159-CWA-SMAF
5.85-8.20	WR137	137-CWA-NF	137-CWA-SMAF
7.05-10.0	WR112	112-CWA-NF	112-CWA-SMAF
7.00-11.0	WR102	102-CWA-NF	102-CWA-SMAF
8.20-12.4	WR90	90-CWA-NF	90-CWA-SMAF
10.0-15.0	WR75	75-CWA-NF	75-CWA-SMAF
12.4-18.0	WR62	62-CWA-NF	62-CWA-SMAF
15.0-22.0	WR51	N/A	51-CWA-SMAF*
18.0-26.5	WR42	N/A	42-CWA-SMAF*
22.0-33.0	WR34	N/A	34-CWA-SMAF*
26.5-40.0	WR28	N/A	28-CWA-SMAF*

*VSWR is 1.3 Max

Shorting Plates

Product Overview:

Carolina Microwave Associates offers a line of shorting plates to mate with standard waveguide flanges. In addition to the popular standard flanges listed, Carolina Microwave Associates offers a more complete line of industry standard flange styles upon request. All shorting plates are manufactured from aluminum alloy that has been chemically cleaned and coated to prevent corrosion.

WAVEGUIDE	STANDARD FLANGES			
SIZE	C	G	CMR	CPR
WR28	X	X	-	-
WR34	X	X	-	-
WR42	X	X	-	-
WR51	X	X	-	-
WR62	X	X	-	-
WR75	X	X	-	-
WR90	X	X	X	X
WR112	X	X	X	X

Ordering Data

Part Number = 114 - X - X - X - O - X

Series No. _____

Waveguide Size _____

Flange _____

Flange Mounting _____

Add "O" for Offset Short _____

Hardware _____

Ordering Data

Flange Configuration	
Flange Type	C – Cover G – Groove CMR CPR (F, G or Contact)
Flange Mounting Holes	T1 – Through Holes T2 – Threaded A – Alternating
Hardware	1 – Required 0 – Not Required

WAVEGUIDE	STANDARD FLANGES			
SIZE	C	G	CMR	CPR
WR137	X	X	X	X
WR159	X	X	X	X
WR187	X	X	X	X
WR229	X	X	X	X
WR284	X	X	X	X
WR340	X	X	X	X
WR510	X	X	X	X
WR650	X	X	X	X

Waveguide Pressure Windows

General Description:

Series PW pressure windows are designed to isolate pressurized sections from non-pressurized sections in waveguide systems. They are also used to prevent solid or liquid contaminants from entering the waveguide system. The material and sealing techniques employed insure high pressurization levels in the severe environments encountered in military applications. Impedance matching designs provide low VSWR performance in all of the standard waveguide sized from WR284 to WR28.

Material:

- Flange.....Brass
- Window.....Copper-Clad, Teflon-Fiberglass
- Flange Type.....Cover Standard

Options

- For cover/choke flange, add - 1
- For choke,choke flange, add -2

Freq Range (GHz)	WG Size	Hole Pattern	VSWR (Max)	PSIG (Max)	Model No.
2.60-3.95	WR284	UG53/U	1.10	20	284-PW
3.30-4.90	WR229	UG1726/U	1.10	25	229-PW
3.95-5.85	WR187	UG149A/U	1.10	30	187-PW
4.90-7.05	WR159	UG1730/U	1.10	30	159-PW
5.85-8.20	WR137	UG344/U	1.10	30	137-PW
7.05-10.0	WR112	UG51/U	1.10	30	112-PW
7.00-11.0	WR102	UG1493/U	1.10	40	102-PW
8.20-12.4	WR90	UG39/U	1.10	40	90-PW
10.0-15.0	WR75	Cover	1.10	40	75-PW
12.4-18.0	WR62	UG419/U	1.10	45	62-PW
18.0-26.5	WR42	UG595/U	1.15	50	42-PW
22.0-33.0	WR34	UG1530/U	1.15	50	34-PW
26.5-40.0	WR28	UG599/U	1.20	50	28-PW

Waveguide Mechanical Switches

(Manual & Solenoid)

Specifications:

- Isolation.....70 dB Min
- Insertion Loss.....0.1 dB Max
- VSWR.....1.10 Max, 1.15 for WR 42 & 48
- Switching Speed.....125 msec. Max
- Solenoid Voltage.....28 Volts DC Standard
- Connector.....Bendix
- Flange Type.....See flange codes
- Material.....Aluminum

Finish:

- Flange Face.....Chemical Conversion
- Housing..... per MIL-C-22750

FLANGE TYPES & SWITCH CONFIGURATIONS			
Flange Code	Flange Type	Switch Type	Switch Description
1	Cover	M	Manual Drive
2	Choke	F	Failsafe Solenoid Drive
3	CPRF	L	Latching Solenoid Drive
4	CPRG	LM	Latching Solenoid Drive with Manual Override
5	CMR		
6	UBR		
7	PBR		
8	CBR		
9	Special		

Typical Model Numbers*

42 - WGMSW - 28 - LM			
WG Size & Series	Flange Type	DC Volts	Switch Type
42 - WGMSW	- 1	-28	LM

Freq Range (GHz)	WG Size	Series No.
2.60-3.95	WR284	284-WGMSW
3.30-4.90	WR229	229-WGMSW
3.95-5.85	WR187	187-WGMSW

www.carolinamicrowave.com
email: sales@carolinamicrowave.com



Toll Free: 888-684-6248
Phone: +1-864-336-0000

Freq Range (GHz)	WG Size	Series No.
4.90-7.05	WR159	159-WGMSW
5.85-8.20	WR137	137-WGMSW
7.05-10.0	WR112	112-WGMSW
8.20-12.4	WR90	90-WGMSW
10.0-15.0	WR75	75-WGMSW
12.4-18.0	WR62	62-WGMSW
18.0-26.5	WR42	42-WGMSW
26.5-40.0	WR28	28-WGMSW

* For TTL control, precede model number with TTL. Ex: TTL-42-WGMSW-1-28-LM, For 3 port version, suffix model number with -3.

Waveguide Tees

(Series Shunt Hybrid)

Specifications:

- Material.....Aluminum
- Flange Type.....Cover Standard
- Finish..... per MIL-C22750

Options:

- All units are available with choke or other type flanges. feel free to [contact us](#).
- For brass material, add B to model number.
- Matched models with low VSWR are available on special order.

Freq Range	WG Size	Series Tee	Shunt Tee	Hybrid Tee
1.70-2.60	WR430	430-ST	430-SHT	430-HT
2.10-3.00	WR340	340-ST	340-SHT	340-HT
2.60-3.95	WR284	284-ST	284-SHT	284-HT
3.30-4.90	WR229	229-ST	229-SHT	229-HT
3.95-5.85	WR187	187-ST	187-SHT	187-HT
4.90-7.05	WR159	159-ST	159-SHT	159-HT
5.85-8.20	WR137	137-ST	137-SHT	137-HT
7.05-10.0	WR112	112-ST	112-SHT	112-HT
7.00-11.0	WR102	102-ST	102-SHT	102-HT
8.20-12.4	WR90	90-ST	90-SHT	90-HT
10.0-15.0	WR75	75-ST	75-SHT	75-HT
12.4-18.0	WR62	62-ST	62-SHT	62-HT
15.0-22.0	WR51	51-ST	51-SHT	51-HT
18.0-26.5	WR42	42-ST	42-SHT	42-HT
22.0-33.0	WR34	34-ST	34-SHT	34-HT
26.5-40.0	WR28	28-ST	28-SHT	28-HT

Waveguide Cross Couplers

(Terminated & unterminated)

Specifications:

- Directivity (See Gen Info)....15 dB Min
- Frequency Sensitivity....+/-1.3 dB Max
- Coupling....1.15 Max, 1.20 for WR 42 thru 28
- Finish....per MIL-C-22750

Model Number Codes	
Material	WG Flanges
A - Aluminum	1 - Cover
B - Brass	2 - Choke
C - OFHC Copper	3 - CPR-F
S - Coin Silver	4 - CPR-G
	5 - CMR
	6 - UBR
	7 - PBR
	8 - CBR
	9 - Special

Freq Range (GHz)	Waveguide Size	WCGCT Series	WCGCUT Series
1.70-2.60	WR 430	430-WCGCT-	430-WCGCUT-
2.10-3.00	WR 340	340-WCGCT-	340-WCGCUT-
2.60-3.95	WR 284	284-WCGCT-	284-WCGCUT-
3.30-4.90	WR 229	229-WCGCT-	229-WCGCUT-
3.95-5.85	WR 187	187-WCGCT-	187-WCGCUT-
4.90-7.05	WR 159	159-WCGCT-	159-WCGCUT-
5.85-8.20	WR 137	137-WCGCT-	137-WCGCUT-
7.05-10.0	WR 112	112-WCGCT-	112-WCGCUT-
7.00-11.0	WR 102	102-WCGCT-	102-WCGCUT-
8.20-12.4	WR 90	90-WCGCT-	90-WCGCUT-
10.0-15.0	WR 75	75-WCGCT-	75-WCGCUT-
12.4-18.0	WR62	62-WCGCT-	62-WCGCUT-
15.0-22.0	WR51	51-WCGCT-	51-WCGCUT-
18.0-26.5	WR42	42-WCGCT-	42-WCGCUT-
22.0-33.0	WR34	34-WCGCT-	34-WCGCUT-
26.5-40.0	WR28	28-WCGCT-	28-WCGCUT-

Waveguide Cross Guide Couplers (Coax Output)

Specifications:

- Directivity (See Gen Info)....15 dB Min
- Frequency Sensitivity.....+/-1.3 dB Max
- Coupling.....20-60 dB available

VSWR:

- Main Line....1.15 Max
- Coaxial Output.....1.25 Max, 1.30 for WR 42 thru 28
- Finish.....per MIL-C-22750

Model Number Codes		
Material	WG Flange	Coaxial Conn
A - Aluminum B - Brass C - OFHC Copper S - Coin Silver	1 - Cover	
	2 - Choke	
	3 - CPR-F	SF - SMA(F)
	4 - CPR-G	SM - SMA(M)
	5 - CMR	NM - N(M)
	6 - UBR	NF - N(F)
	7 - PBR	Y - Other
	8 - CBR	
	9 - Special	

Freq Range (GHz)	Waveguide Size	Model No. *
1.70-2.60	WR 430	430-WCGCCO-
2.10-3.00	WR 340	340-WCGCCO-
2.60-3.95	WR 284	284-WCGCCO-
3.30-4.90	WR 229	284-WCGCCO-

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Freq Range (GHz)	Waveguide Size	Model No. *
3.95-5.85	WR 187	187-WCGCCO-
4.90-7.05	WR 159	159-WCGCCO-
5.85-8.20-	WR 137	137-WCGCCO-
7.05-10.0	WR 112	112-WCGCCO-
7.00-11.0	WR 102	102-WCGCCO-
8.20-12.4	WR 90	90-WCGCCO-
10.0-15.0	WR 75	75-WCGCCO-
12.4-18.0	WR 62	62-WCGCCO-
15.0-22.0	WR 51	51-WCGCCO-
18.0-26.5	WR 42	42-WCGCCO-
22.0-33.0	WR 34	34-WCGCCO-
26.5-40.0	WR28	28-WCGCCO-

Waveguide Cross Guide Couplers (Multiple Outputs)

General Description:

This series of cross-guide directional couplers offer two or more coupled outputs with customer selected coupling values for each arm. The coupled output port can be waveguide or coaxial. Directivity can be optimized over specified frequency ranges.

Specifications:

- Directivity (See Gen Info)....15 dB Min
- Frequency Sensitivity....+/-1.3dB Max
- Coupling....20 - 60 dB available

VSWR:

- Main Line....1.15 Max, 1.20 for WR 42 thru 28
- WG Output....1.15 Max, 1.20 for WR 42 thru 28
- Coaxial Output....1.25 Max, 1.30 for WR 42 thru 28
- Finish..... per MIL-C-22750

Model Number Codes		
Material	WG Flange	Coaxial Conn
A - Aluminum B - Brass C - OFHC Copper S - Coin Silver	1 - Cover	
	2 - Choke	
	3 - CPR-F	SF - SMA(F)
	4 - CPR-G	SM - SMA(M)
	5 - CMR	NM - N(M)
	6 - UBR	NF - N(F)
	7 - PBR	Y - Other
	8 - CBR	
	9 - Special	

Freq Range (GHz)	Waveguide Size	Model No.*
1.70-2.60	WR 430	430-WCGCMO-
2.10-3.00	WR 340	340-WCGCMO-

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Freq Range (GHz)	Waveguide Size	Model No.*
2.60-3.95	WR 284	284-WCGCMO-
3.30-4.90	WR 229	229-WCGCMO-
3.95-5.85	WR 187	187-WCGCMO-
4.90-7.05	WR 159	159-WCGCMO-
5.85-8.20	WR 137	137-WCGCMO-
7.05-10.0	WR 112	112-WCGCMO-
7.00-11.0	WR 102	102-WCGCMO-
8.20-12.4	WR 90	90-WCGCMO-
10.0-15.0	WR 75	75-WCGCMO-
12.4-18.0-	WR 62	62-WCGCMO-
15.0-22.0	WR 51	51-WCGCMO-
18.0-26.5	WR 42	42-WCGCMO-
22.0-33.0	WR 34	34-WCGCMO-
26.5-40.0	WR 28	28-WCGCMO-

Waveguide Multihole Couplers

Specifications:

- Complete waveguide band performance
- High directivity and Low VSWR
- Flat coupling with frequency
- Nominal Coupling.....3, 6, 10, 20, & 30 dB
- Coupling Accuracy.....+/-0.4 dB
- Frequency Sensitivity.....+/-0.5 dB
- Directivity.....40 dB Min
- VSWR (Max).....1.05 Primary*, 1.15 Sec (W/G)*, 1.25 Sec (Coax)*
- Finish.....per MIL-C-22750

Applications:

- Accurate monitoring of power or frequency
- VSWR measurement by reflectometer techniques
- Accurate standard or attenuation
- Injection of local oscillator power into mixers.

Model Number Codes		
Material	WG Flange	Coax Conn
A - Aluminum B - Brass C - OFHC Copper S - Coin Silver	1 - Cover	
	2 - Choke	
	3 - CPR-F	SF - SMA(F)
	4 - CPR-G	SM - SMA(M)
	5 - CMR	NM - N(M)
	6 - UBR	NF - N(F)
	7 - PBR	Y - Other
	8 - CBR	
	9 - Special	

Freq Range (GHz)	Waveguide Size	Series No.
2.60-3.95	WR 284	284-WGMHC-
3.30-4.90	WR 229	229-WGMHC-
3.95-5.85	WR 187	187-WGMHC-
4.90-7.05	WR 159	159-WGMHC-

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Freq Range (GHz)	Waveguide Size	Series No.
5.85-8.20	WR 137	137-WGMHC-
7.05-10.0	WR 112	112-WGMHC-
7.00-11.0	WR 102	102-WGMHC-
8.20-12.4	WR 90	90-WGMHC-
10.0-15.0	WR 75	75-WGMHC-
12.4-18.0	WR 62	62-WGMHC-
18.0-26.5	WR 42	42-WGMHC-
26.5-40.0	WR 28	28-WGMHC-

*VSWR is 1.10 Max on primary, 1.20 Max on waveguide secondary, and 1.30 Max on coaxial secondary for WR 42 & WR 28 models.

Note:

Also available in dual directional and side wall; feel free to contact us.

Waveguide to Waveguide Adapters

General Description: Waveguide to waveguide transitions utilize a tapered design which achieves a very low VSWR. Other combinations of waveguide sizes along with transitions from full height to half height or 3/4 height waveguide available upon request.

Freq Range (GHz) *	Waveguide Size	Length (In)	VSWR (Max)	Model No.
2.10-2.60	WR 430 to WR340	20.0	1.05	430-340-
2.60-3.00	WR340 to WR284	17.0	1.05	340-284-
3.30-3.95	WR284 to WR229	14.0	1.04	284-229-
3.95-4.90	WR229 to WR187	12.0	1.04	229-187-
4.90-5.85	WR187 to WR159	12.0	1.04	187-159-
5.85-7.05	WR159 to WR137	12.0	1.05	159-137-
7.05-8.20	WR137 to WR112	12.0	1.05	137-112-
7.00-10.0	WR112 to WR102	10.0	1.05	112-102-
8.20-11.0	WR102 to WR90	8.0	1.05	102-90-
10.0-12.4	WR90 to WR75	6.0	1.06	90-75-
12.4-15.0	WR75 to WR62	4.0	1.08	75-62-
15.0-18.0	WR62 to WR51	3.0	1.08	62-51-
18.0-22.0	WR51 to WR42	3.0	1.10	51-42-
22.0-26.5	WR42 to WR34	2.5	1.10	42-34-
26.5-33.0	WR34 to WR28	2.0	1.15	34-28-

*These frequency ranges are for optimal electrical characteristics; feel free to contact us for other frequency ranges.

Low Power Waveguide Elements (Low VSWR)

General Description:

Series LPWE cone elements provide an almost perfect impedance match over the full waveguide frequency range. Each unit employs an environmentally stable lossy material specially shaped to produce a low VSWR.

For special applications, very short elements with a slightly higher VSWR are available. Also available are ceramic materials which can offer extremely high RF power capabilities.

Freq Range (GHz)	Waveguide Size	VSWR (Max)	RF Power (Avg. W)	Model No.
1.70-2.60	WR430	1.02	20.0	430-LPWE
2.10-3.00	WR340	1.01	12.0	340-LPWE
2.60-3.95	WR284	1.01	10.0	284-LPWE
3.30-4.90	WR229	1.01	10.0	229-LPWE
3.95-5.85	WR187	1.01	8.0	187-LPWE
4.90-7.05	WR159	1.01	7.0	159-LPWE
5.85-8.20	WR137	1.01	6.0	137-LPWE
7.05-10.0	WR112	1.01	4.0	112-LPWE
7.00-11.0	WR102	1.01	3.0	102-LPWE
8.20-12.4	WR90	1.01	4.0	90-LPWE
10.0-15.0	WR75	1.01	2.5	75-LPWE
12.4-18.0	WR62	1.01	1.5	62-LPWE
15.0-22.0	WR51	1.01	1.0	51-LPWE
18.0-26.5	WR42	1.01	0.5	42-LPWE
22.0-33.0	WR34	1.01	0.5	34-LPWE
26.5-40.0	WR28	1.02	0.5	28-LPWE

Waveguide Terminations Short Length Models

General Description:

Series 640 was designed to achieve low VSWR over a narrow frequency in a short length. These units utilize either tongue or step elements. Other frequency ranges, as well as shorter lengths, and high power are available on request. feel free to contact us. for details.

Specifications

- VSWR.....1.15 Max
- Material.....Aluminum
- Flange Type.....Cover Standard
- Finish.....per MIL-C-22750
- Form Factor.....7268

Options:

- For brass material, add B to basic model number.
- For choke flange, precede model number with C.
- For CPR or other flange, precede model with flange type. Ex: CPR137G-640

Freq Range (GHz)	Waveguide Size	RF Power (Avg. W)	Length (In)	Model No.
2.70-2.90	WR284	10.0	2.75	284-640
2.90-3.10	WR284	10.0	2.75	284-641
3.50-4.20	WR229	10.0	2.75	229-640
4.90-5.40	WR187	8.0	2.25	187-640
5.40-5.90	WR187	8.0	2.25	187-641
5.90-6.40	WR159	7.0	2.00	159-640
5.40-5.90	WR137	6.0	1.75	137-640
5.90-6.80	WR137	6.0	1.75	137-641
6.80-8.40	WR137	6.0	1.75	137-642
7.10-7.75	WR112	4.0	1.5	112-640
7.80-8.50	WR112	4.0	1.5	112-641
8.60-9.50	WR112	4.0	1.5	112-642
9.00-10.0	WR90	4.0	1.5	90-640
10.0-11.7	WR90	4.0	1.5	90-641
10.9-11.7	WR75	2.0	1.25	75-640
11.7-13.3	WR75	2.0	1.25	75-641
13.0-14.8	WR75	2.0	1.25	75-642
14.0-15.0	WR62	0.5	1.00	62-640
15.0-17.1	WR62	0.5	1.00	62-641

Waveguide Terminations Low Power

Specifications:

- VSWR.....1.15 Max
- Material.....Aluminum
- Flange Type.....Cover Standard
- Finish.....per MIL-C-22750
- Form Factor.....7268

Options:

- For brass material, add B to basic model number.
- For choke flange, precede model number with C. VSWR is 1.03 Max.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-660

Freq Range (GHz)	Waveguide Size	VSWR (Max)	RF Power (Avg. W)	Length (In)	Model No.
1.12-1.70	WR650	1.02	25.0	20.00	350-660
1.70-2.60	WR430	1.02	20.0	15.00	430-660
2.10-3.00	WR340	1.01	12.0	9.75	340-660
2.60-3.95	WR284	1.01	10.0	10.75	284-660
3.30-4.90	WR229	1.01	10.0	7.50	229-660
3.95-5.85	WR187	1.01	8.0	6.50	187-660
4.90-7.05	WR159	1.01	7.0	6.00	159-660
5.85-8.20	WR137	1.01	6.0	5.50	137-660
7.05-10.0	WR112	1.01	4.0	5.00	112-660
7.00-11.0	WR102	1.01	3.0	3.50	102-660
8.20-12.4	WR90	1.01	4.0	4.00	90-660
10.0-15.0	WR75	1.01	2.0	4.00	75-660
12.4-18.0	WR62	1.01	1.5	4.00	62-660
15.0-22.0	WR51	1.02	1.0	3.50	51-660
18.0-26.5	WR42	1.02	0.5	2.50	42-660
22.0-33.0	WR34	1.02	0.5	2.50	34-660
26.5-40.0	WR28	1.02	0.5	2.00	28-660

Waveguide Terminations Medium Power (Low VSWR)

Specifications:

- VSWR.....1.10 Max, 1.15 for WR 42 & 48
- Material.....Aluminum
- Flange Type.....Cover Standard
- Finish.....High temperature black paint
- Form Factor.....7271

Options:

- For brass material, add B to basic model number.
- For choke flange, precede model number with C. VSWR is 1.05 Max.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-930

Freq Range (GHz)	Waveguide Size	VSWR(Max)	RF Power (Avg. W)	Length (In)	Model No.
3.95-5.85	WR187	1.04	60	6.5	187-930
5.85-8.20	WR137	1.03	60	5.5	137-930
7.05-10.0	WR112	1.03	50	5.0	112-930
8.20-12.4	WR90	1.04	50	4.0	90-930
10.0-15.0	WR75	1.03	30	4.0	75-930
12.4-18.0	WR62	1.03	30	4.0	62-930

Waveguide Terminations Medium Power

Specifications:

- VSWR.....1.10 Max, 1.15 for WR 42 & 48
- Material.....Aluminum
- Flange Type.....Cover Standard
- Finish.....High Temperature black paint

Options:

- For brass material, add B to basic model number.
- For choke flange, precede model number with C. VSWR is 1.05 Max.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-930

Freq Range (GHz)	Waveguide Size	Avg. (W)	Peak (kW)	Length (Max In)	Model No.
2.60-3.95	WR284	1200	950	11.00	284-925
3.30-4.90	WR229	1000	800	9.75	229-925
3.95-5.85	WR187	750	750	8.38	187-925
4.90-7.05	WR159	625	625	8.13	159-925
5.85-8.20	WR137	500	400	7.75	137-925
7.05-10.0	WR112	425	400	7.00	112-925
7.00-11.0	WR102	325	300	6.50	102-925
8.20-12.4	WR90	225	225	5.50	90-925
10.0-15.0	WR75	200	200	4.50	75-925
12.4-18.0	WR62	100	100	3.38	62-925
15.0-22.0	WR51	100	100	3.50	51-925
18.0-26.5	WR42	100	100	3.50	42-925
26.5-40.0	WR28	50	75	3.00	28-925

Waveguide High Power Dummy Loads

Specifications:

- VSWR.....1.15 Max
- Material.....Aluminum
- Flange Type.....Cover Standard
- Finish.....High Temperature black paint

Options:

- For brass material, add B to basic model number.
- For choke flange, precede model number with C.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-WHDL
- Shorter lengths and different power capabilities available upon request; feel free to contact us.

Freq Range (GHz)	Waveguide Size	Avg. (W)	Peak(kW)	Model No.
2.60-3.95	WR284	3500	3200	284-WHDL
3.30-4.90	WR229	2200	2000	229-WHDL
3.95-5.85	WR187	1300	2000	187-WHDL
4.90-7.05	WR159	1000	1000	159-WHDL
5.85-8.20	WR137	875	710	137-WHDL
7.05-10.0	WR112	425	460	112-WHDL
7.00-11.0	WR102	410	290	102-WHDL
8.20-12.4	WR90	375	290	90-WHDL
10.0-15.0	WR75	350	200	75-WHDL
12.4-18.0	WR62	350	160	62-WHDL
18.0-26.5	WR42	200	120	42-WHDL
26.5-40.0	WR28	100	100	28-WHDL

Waveguide Variable Phase Shifters

Specifications:

- Phase Shift.....90 Degree Min*
- VSWR.....1.50 Max
- Insertion Loss.....1.0 dB Max
- Flange Type.....Cover Standard
- Material.....Aluminum
- Finish.....per MIL-C-22750
- Form Factor.....0-3224

Options:

- For brass material, add B to basic model number.
- For cover/choke flange, add -1. For choke/choke flange, add -2.
- For CPR or other flange, precede series number with flange type. Ex: CPR137G-WGVPS
- For DC motorized unit, suffix model number with -DC.
- For turns-counting-dial, precede model number with a T.

Freq Range (GHz)	Waveguide Size	Length (In)	Model No.*
2.60-3.95	WR284	14.5	284-WGVPS
3.30-4.90	WR229	12.8	229-WGVPS
3.95-5.85	WR187	10.9	187-WGVPS
4.90-7.05	WR159	9.8	159-WGVPS
5.85-8.20	WR137	8.7	137-WGVPS
7.05-10.0	WR112	6.9	112-WGVPS
7.00-11.0	WR102	6.6	102-WGVPS
8.20-12.4	WR90	5.8	90-WGVPS
10.0-14.5	WR75	4.6	75-WGVPS
12.4-18.0	WR62	3.5	62-WGVPS
15.0-22.0	WR51	3.5	51-WGVPS
18.0-26.5	WR42	2.9**	72-WGVPS
26.5-40.0	WR28	2.4**	28-WGVPS

*180 degree adjustment available over limited bandwidths; feel free to contact us..

**For DC motorized version, insertion length is 3.25 inches.

Waveguide Pressurization Sections

Specifications:

- VSWR.....1.08 Max, 1.15 for WR 42 thru 28
- Material.....Aluminum
- Flanges.....Cover/Cover Standard
- Finish.....per MIL-C-22750

General Description:

These units are straight sections of waveguide fitted with a Schrader Valve and calibrated gauge. When installed in a system they permit the waveguide to be pressurized with air or an inert gas. The units are pressure tested at 30 PSIG. They are also available without the pressure gauge. See option number five.

Options:

- For brass material, add B to basic model number.
- Length may be modified. Replace last two digits with required length in inches.
- For A cover/B choke flange, add -1. For A choke/B choke flange, add -2. For A choke/B flange, add-3.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-PS-04
- For units without gauge, change the Series Number PS to Series Number 295. Ex: 62-PS-04 becomes 62-295-04 without gauge.

Freq Range (GHz)	Waveguide Size	Length (In)	Height(In)	Model No.
1.12-1.70	WR650	8	4.33	650-PS-08
1.70-2.60	WR430	8	4.33	430-PS-08
2.10-3.00	WR340	8	4.33	340-PS-08
2.60-3.95	WR284	6	4.33	284-PS-06
3.30-4.90	WR229	6	4.33	229-PS-06
3.95-5.85	WR187	5	2.81	187-PS-05
4.90-7.05	WR159	5	2.81	159-PS-05
5.85-8.20	WR137	5	2.81	137-PS-05
7.05-10.0	WR112	5	2.81	112-PS-05
7.00-11.0	WR102	5	2.81	102-PS-05
8.20-12.4	WR90	5	2.81	90-PS-05
10.0-15.0	WR75	5	2.81	75-PS-05
12.4-18.0	WR62	4	2.81	62-PS-04
15.0-22.0	WR51	4	2.81	51-PS-04
18.0-26.5	WR42	4	2.81	42-PS-04
22.0-33.0	WR34	4	2.81	34-PS-04
26.5-40.0	WR28	4	2.81	28-PS-04

Waveguide Bends (30 and 60 Degree)

General Specifications:

- VSWR.....1.05 Max, 1.10 for WR 42 & 28
- Material.....Aluminum
- Flanges.....Cover/Cover
- Finish.....per MIL-C-22750

Options:

- For brass material, add B to base model number.
- For cover/choke flange, add -1.
- For choke/choke flange, add -2.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-60E

30 & 60 Degree E Plane Bends			
Freq Range(GHz)	WG Size	30 Degree	60 Degree
1.70-2.60	430	430-30E	430-60E
2.10-3.00	340	340-30E	340-60E
2.60-3.95	284	284-30E	284-60E
3.30-4.90	229	229-30E	229-60E
3.95-5.85	187	187-30E	187-60E
4.90-7.05	159	159-30E	159-60E
5.85-8.20	137	137-30E	137-60E
7.05-10.0	112	112-30E	112-60E
7.00-11.0	102	102-30E	102-60E
8.20-12.4	90	90-30E	90-60E
10.0-15.0	75	75-30E	75-60E
12.4-18.0	62	62-30E	62-60E
15.0-22.0	51	51-30E	51-60E
18.0-26.5	42	42-30E	42-60E
26.5-40.0	28	28-30E	28-60E

30 and 60 Degree H Plane Bends			
Freq Range(GHz)	WG Size	30 Degree	60 Degree
1.70-2.60	430	430-30H	430-60H
2.10-3.00	340	340-30H	340-60H
2.60-3.95	284	284-30H	284-60H
3.30-4.90	229	229-30H	229-60H

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30 and 60 Degree H Plane Bends			
Freq Range(GHz)	WG Size	30 Degree	60 Degree
3.95-5.85	187	187-30H	187-60H
4.90-7.05	159	159-30H	159-60H
5.85-8.20	137	137-30H	137-60H
7.05-10.0	112	112-30H	112-60H
7.00-11.0	102	102-30H	102-60H
8.20-12.4	90	90-30H	90-60H
10.0-15.0	75	75-30H	75-60H
12.4-18.0	62	62-30H	62-60H
15.0-22.0	51	51-30H	51-60H
18.0-26.5	42	42-30H	42-60H
26.5-40.0	28	28-30H	28-60H

Waveguide Bends (45 & 90 Degree)

Specifications:

- VSWR.....1.05 Max, 1.10 Max for WR 42 & 28, 1.10 Max for miter bends
- Material...Aluminum
- Flanges.....Cover/Cover Standard
- Finish.....per MIL-C-22750

Options:

- For brass material, add B to base model number.
- For cover/choke flange, add -1.
- For choke/choke flange, add -2.
- For CPR or other flange, precede series number with flange type. Ex: CPR137G-45E

45 & 90 Degree E Plane Bends			
Freq Range (GHz)	WG Size	45 Degrees	90 Degrees
1.70-2.60	90M	90M-45E	90M-90E
2.10-3.00	340	340-45E	340-90E
2.60-3.95	284	284-45E	284-90E
3.30-4.90	229	229-45E	229-90E
3.95-5.85	187	187-45E	187-90E
4.90-7.05	159	159-45E	159-90E
5.85-8.20	137	137-45E	137-90E
7.05-10.0	112	137-45E	137-90E
7.00-11.0	102	102-45E	102-90E
8.20-12.4	90	90-45E	90-90E
10.0-15.0	75	75-45E	75-90E
12.4-18.0	62	62-45E	62-90E
15.0-22.0	51	51-45E	51-90E
18.0-26.5	42	42-45E	42-45E
26.5-40.0	28	28-45E	28-90E

45 & 90 Degree H Plane Bends			
Freq Range (GHz)	WG Size	45 Degrees	90 Degrees
1.70-2.60	90M	90M-45H	90M-90H
2.10-3.00	340	340-45H	340-90H
2.60-3.95	284	284-45H	284-90H
3.30-4.90	229	229-45H	229-90H
3.95-5.85	187	187-45H	229-90H
4.90-7.05	159	159-45H	159-90H
5.85-8.20	137	137-45H	137-90H
7.05-10.0	112	112-45H	112-90H
7.00-11.0	102	102-45H	102-90H
8.20-12.4	90	90-45H	90-90H
10.0-15.0	75	75-45H	75-90H
12.4-18.0	62	62-45H	62-90H
15.0-22.0	51	51-45H	51-90H
18.0-26.5	42	42-45H	42-90H
26.5-40.0	28	28-45H	28-90H
90 Degree E & H Plane Miter Bends			
Freq Range (GHz)	WG Size	45 Degrees	90 Degrees
2.60-3.95	284	284-45M	284-90M
3.30-4.90	229	229-45M	229-90M
3.95-5.85	187	187-45M	187-90M
4.90-7.05	159	159-45M	159-90M
5.85-8.20	137	137-45M	137-90M
7.05-10.0	112	112-45M	112-90M
7.00-11.0	102	102-45M	102-90M
8.20-12.4	90	90-45M	90-90M
10.0-15.0	75	75-45M	75-90M
12.4-18.0	62	62-45M	62-90M
15.0-22.0	51	51-45M	51-90M
18.0-26.5	42	42-45M	42-90M
26.5-40.0	28	28-45M	28-90M

Flexible Waveguide

General Description:

Flexible waveguide sections are offered in all waveguide sizes. Standard units have cover flanges. Molded neoprene rubber jackets are available. All waveguide sizes come in standard lengths 6, 12, 18, and 24 inches. For optional length and jacket types, feel free to contact us. Other flange combinations are available (see footnote). For special assemblies, feel free to contact us.

All units are designed to meet stringent military environments and specifications.

Specifications:

- Frequency Range.....2.6 - 40.0 GHz
- Waveguide Type.....Flexible Twistable
- Material.....Brass, Preconvoluted
- Jacket.....Neoprene Rubber
- Flange type.....Cover (Std) See below
- VSWR.....See below
- Insertion Loss.....See below

Freq Range (GHz)	Waveguide Size*	Flange (Cover)	Ins Loss (Max dB/Ft)	VSWR (Max per 2 Ft. Length)	Twist Flex Model No.**	Non-Twist Flex Model No.**
2.60-3.95	WR284	UG-53	0.018	1.09	284-TWIST FLEX-	284-229-
3.30-4.90	WR229	CPR229F	0.023	1.07	229-TWIST FLEX-	229-229-
3.95-5.85	WR187	UG-149	0.050	1.09	187-TWIST FLEX-	187-229-
5.85-8.20	WR137	UG-344	0.070	1.10	112-TWIST FLEX-	112-229-
7.05-10.0	WR90	UG-51	0.080	1.10	112-TWIST FLEX-	112-229-
8.20-12.4	WR75	UG-39	0.100	1.10	90-TWIST FLEX-	90-229-
10.0-15.0	WR75	WR75	0.160	1.12	75-TWIST FLEX-	75-229-
12.4-18.0	WR62	UG-419	0.200	1.12	62-TWIST FLEX-	62-229-
18.0-26.5	WR42	UG-595	0.350	1.20	42-TWIST FLEX-	42-229-
26.5-40.0	WR28	UG-599	0.600	1.3	28-TWIST FLEX-	28-229-

- Other waveguide sizes are available; feel free to **contact us**.

www.carolinamicrowave.com
email: sales@carolinamicrowave.com



Toll Free: 888-684-6248
Phone: +1-864-336-0000

** To complete model number, add length of unit in inches. For cover/choke flange add -1 to model number. For choke/choke flange, add -2. For flexible waveguide with jacket, add J to series number. Ex: 137-TWIST FLEXJ-24-1

Standard Gain Horns (WR284 to WR28)

General Description:

These standard gain waveguide horns are ideal for field use as receiving or transmitting antennas, as well as pick-up horns. The straight-line pyramidal design achieves a low VSWR. The minimum gain of these horns is 15 dB at low frequency and 18 dB at the high frequency of the waveguide.

Specifications:

- Frequency Range.....2.6 - 40.0 GHz
- Gain.....15 - 18 dB Min
- VSWR.....1.25 Max
- Material.....Aluminum
- Output Connector:
- Series WGHN.....Type N Female Coax, Series WGHSMA.....SMA Female Coax, Series WGHWG, W/G Flange (Cover Std)*
- Finish.....Black paint per MIL-L-81352
- For choke flange, precede model number with a C. Ex: C112-WGHWG.
- For CPR or other flange, precede model number with flange type. Ex: CPR137G-WGHWG

Freq Range (GHz)	Waveguide Size	Type N	SMA	Waveguide*
2.60-3.95	WR284	284-WGHN	284-WGHSMA	284-WGHWG
3.30-4.90	WR229	229-WGHN	229-WGHSMA	229-WGHWG
3.95-5.85	WR187	187-WGHN	187-WGHSMA	187-WGHWG
4.90-7.05	WR159	159-WGHN	159-WGHSMA	159-WGHWG
5.85-8.20	WR137	137-WGHN	137-WGHSMA	137-WGHWG
7.05-10.0	WR112	112-WGHN	112-WGHSMA	112-WGHWG
8.20-12.4	WR90	90-WGHN	90-WGHSMA	90-WGHWG
10.0-15.0	WR75	75-WGHN	75-WGHSMA	75-WGHWG
12.4-18.0	WR62	62-WGHN	62-WGHSMA	62-WGHWG
18.0-26.5	WR42	42-WGHN	42-WGHSMA	42-WGHWG
26.5-40.0	WR28	28-WGHN	28-WGHSMA	28-WGHWG

Bulkhead Feedthrus			
Freq Range (GHz)	Waveguide Size	Length (In)	Model No.
1.70-2.60	WR430	12	430-BHF-12
2.10-3.00	WR340	12	340-BHF-12
2.60-3.95	WR284	8	284-BHF-08
3.30-4.90	WR229	6	229-BHF-06
3.95-5.85	WR187	6	187-BHF-06

Bulkhead Feedthrus			
Freq Range (GHz)	Waveguide Size	Length (In)	Model No.
4.90-7.05	WR159	6	159-BHF-06
5.85-8.20	WR137	6	137-BHF-06
7.05-10.0	WR112	6	112-BHF-06
7.00-11.0	WR102	6	102-BHF-06
8.20-12.4	WR90	6	90-BHF-06
10.0-15.0	WR75	6	75-BHF-06
12.4-18.0	WR62	6	62-BHF-06
15.0-22.0	WR51	6	51-BHF-06
18.0-26.5	WR42	6	42-BHF-06
22.0-33.0	WR34	6	34-BHF-06
26.5-40.0	WR28	6	28-BHF-06

Waveguide Twists

Specifications:

- Material.....Aluminum
- Flanges.....Cover Standard
- Finish.....per MIL-C-22750

Options:

- 1. For brass material, add B to basic model number.
- 2. For A cover/B choke flange, add -1. For A choke/B choke flange, add -2. For A choke/B flange, add -3.
- 3. For CPR or other flange, precede series number with flange type. Ex: CPR137G-220-06
- 4. Length may be modified. Replace last two digits with required length in inches.

90 Degree Twists			
Freq Range (GHz)	Waveguide Size	Length (In)	Model No.
1.70-2.60	WR430	24	430-90DTW-24
2.10-3.00	WR340	16	340-90DTW-16
2.60-3.95	WR284	13	284-90DTW-13
3.30-4.90	WR229	12	229-90DTW-12
3.95-5.85	WR187	9	187-90DTW-09
4.90-7.05	WR159	6	159-90DTW-06
5.85-8.20	WR137	6	137-90DTW-06
7.05-10.0	WR112	6	112-90DTW-06
7.00-11.0	WR102	6	102-90DTW-06
8.20-12.4	WR90	6	90-90DTW-06
10.0-15.0	WR75	6	75-90DTW-06
12.4-18.0	WR62	4	62-90DTW-04
15.0-22.0	WR51	4	51-90DTW-04
18.0-26.5	WR42	3	42-90DTW-03
22.0-33.0	WR34	3	34-90DTW-03
26.5-40.0	WR28	3	28-90DTW-03

Waveguide Straight Sections

Specifications:

- Material.....Aluminum STR
- Flanges.....Cover Standard
- Finish.....per MIL-C-22750

Options:

- 1. For brass material, add B to basic model number.
- 2. For A cover/B choke flange, add -1. For A choke/B choke flange, add -2. For A choke/B flange, add -3.
- 3. For CPR or other flange, precede series number with flange type. Ex: CPR137G-STR-06
- 4. Length may be modified. Replace last two digits with required length in inches.

Straight Sections

Freq Range (GHz)	Waveguide Size	Length (In)	Model No.
1.70-2.60	WR430	12	430-STR-12
2.10-3.00	WR340	12	340-STR-12
2.60-3.95	WR284	8	284-STR-08
3.30-4.90	WR229	6	229-STR-06
3.95-5.85	WR187	6	187-STR-06
4.90-7.05	WR159	6	159-STR-06
5.85-8.20	WR137	6	137-STR-06
7.05-10.0	WR112	6	112-STR-06
7.00-11.0	WR102	6	102-STR-06
8.20-12.4	WR90	6	90-STR-06
10.0-15.0	WR75	6	75-STR-06
12.4-18.0	WR62	6	62-STR-06
15.0-22.0	WR51	3	51-STR-03
18.0-26.5	WR42	3	42-STR-03
22.0-33.0	WR34	3	34-STR-03
26.5-40.0	WR28	3	28-STR-03

**** CUSTOM LENGTHS AVAILABLE ****

Terms and Conditions of Sales and Credit

1. Sales: Seller agrees to sell to Buyer such products and services as Seller may determine to sell, deal in, and provide in the ordinary course of business subject to the terms set forth in this Agreement (hereinafter “Products”). Such sales shall be exclusively for Buyers business use. Buyer represents and warrants that no purchase hereunder will be made for the personal, family, or household use of Buyer. This Agreement is not intended to require Buyer to purchase any products or services from Seller nor is it intended to require seller to: a. maintain or continue to maintain an inventory of any particular type of product; b. deal in or continue to deal in any particular type of product; or c. provide or continue to provide any particular type of service. Seller may refuse to sell Products to Buyer at any time without cause or prior notice.

2. Pricing: Price quotations shall remain in effect for fifteen days from date of issuance. Seller reserves the right to change published pricing at any time.

3. Credit Limits: Credit limits shall be determined and modified at the sole discretion of the Seller. In the event that Buyer is delinquent in payment or has exceeded the credit limit established by Seller, Seller may refuse to sell Products to Buyer, suspend any shipment or delivery or refuse to manufacture any Products or provide any services until the indebtedness of Buyer to Seller has been reduced, or all past due amounts, including finance charges, have been paid in full, as Seller determines necessary.

4. Taxes: Purchaser is responsible for all sales, use and similar taxes unless Seller agrees in writing to pay the same.

5. Payment Terms: Buyer shall pay sums owed Seller within twenty (20) calendar days of the date of Sellers invoice. Buyer further agrees that the purchase price shall be increased for any purchase for which payment in full has not been timely made, such increase to be interest on the unpaid balance due of each such invoice equal to the lesser of the maximum rate of interest permitted by law or two percent (2%) per month. Buyer agrees to pay, in addition, all costs of collection, including attorney fees, court costs, and other expenses incurred by Seller to enforce the terms of the Agreement. Seller does not hereby agree to payment after the due date and may demand payment in full any time. Buyer waives all claims for relief under valuation and appraisal laws.

6. Buyers Agents: Buyer agrees to have only individuals who are authorized agents of Buyer execute documents on Buyer’s behalf for purchases or deliveries. Buyer agrees that any person in Buyer’s employ may accept or acknowledge delivery of products or services to Buyer.

7. Buyer’s Inspection: Buyer or its designated representative shall inspect all Products within seven (7)

calendar days after delivery of Products (hereinafter “Inspection Period”) and Buyer shall notify seller of any defects, shortages, over shipments, or nonconformance in any of the Products within the Inspection Period. Any Products not rejected by Buyer within the Inspection Period shall be deemed to have been accepted by Buyer.

8. Shipping Terms: Shipping terms for shipments within the United States are F.O.B. Seller’s Point of Shipment. Shipping terms for international shipments are EXW Seller’s Point of Shipment (Incoterms 2000). Seller will prepay freight charges and add to Buyers invoice. All claims for transportation damage shall be filed and processed by Buyer. Buyer agrees to pay for all Products purchased without regard to whether the same are damaged during shipment.

9. Title and Risk of Loss: Title to and risk of loss and damage to the Products shall pass to Buyer immediately upon delivery of the Products to a common carrier, or, to an employee or other agent of Buyer, at Seller’s facility.

10. Some of the Products are manufactured by others and warranties by some manufacturers of the Products provide remedies greater than those provided hereunder by Seller. Buyer agrees to make no claim against Seller under the manufacturers warranty or to make a claim against Seller except under the warranties hereunder provided. Seller shall not be liable for any damages for breach of any warranty other than those damages expressly agreed in writing by the Seller.

11. Patents and Copyrights: No representation is made that the products or their use do not infringe any patents, trademarks, or trade names or other rights of third parties.

12. Buyer’s Indemnity: Buyer agrees to indemnify and hold Seller harmless for any claim, damage, loss, or other expense paid by or claimed against Seller and all costs of defending the same (including, without limiting the generally foregoing, the fees of attorneys, expert witnesses, investigators and travel expenses) arising, in whole or in part, from though or in any manner related to Products manufactured by Seller, or Sellers subcontractors, at Buyer’s specific request pursuant to Buyer’s design or other criteria (“Custom Products”), except when such claim arises exclusively as a result of Seller’s negligence.

13. Cancellation: All requests for cancellation or changes to an order for Products must be submitted in writing by Buyer. In the event that Buyer cancels or changes an order for Products, Buyer agrees to pay a restocking fee of not less than 35% for standard products and 100% for Custom Products of the cost of the products to which such cancellation or change is acceptable.

14. No products may be returned to Seller without Seller’s prior consent. All requests by Buyer for authorization to return Products must be submitted in writing to Seller utilizing Seller’s Return Request Form. Seller may, at its sole discretion, issue Buyer written authorization to return

Products to Seller (hereinafter "Return Authorization") for inspection and refund. All shipping costs for the return of Products are the responsibility of the Buyer. Seller shall have no obligation to consider return requests received later than fifteen (15) calendar days after shipment of Products to Buyer.

15. Seller's Inspection: Upon receipt of Products returned for warranty claims or pursuant to a Return Authorization, Seller shall inspect the Products and, at its sole discretion, accept or deny the return of such Products. In the event that Seller accepts the return of Products from Buyer pursuant to a Return Authorization, Seller shall issue a credit to Buyer in the amount of the original FOB Origin amount for the products less a thirty five (35%) percent restocking fee for Standard Products and one hundred (100%) for Custom Products. In the event that Seller denies the return of Products from Buyer, Seller shall ship Products back to Buyer at Buyer's sole expense.

16. Force Majeure: Seller shall not be liable for failure to perform any of its obligations under this Agreement to the extent such failure is caused by fire, flood, explosion, war, riot, embargo, labor disputes, compliance with any laws, regulations, orders, act or requirements from the government, civil or military authorities, acts of God or the public enemy, or any act or event of nature beyond the Seller's reasonable control. In no event shall Seller be liable to Buyer for any special, incidental, or consequential damages as a result of delay in performance or failure to perform hereunder.

17. Conflict of Forms: In the event of conflict between this Agreement and the terms printed on the face or reverse side of Buyer's order form, the terms and conditions of this Agreement shall control. If this Agreement is silent as to a particular matter, the terms which appear on the reverse side of Seller's invoice shall control, and Seller's acceptance is conditional upon Buyer's assent to the terms which appear on the reverse side of Seller's invoice. This agreement may be modified by either separate written modification hereof or by the addition of terms in Seller's invoice.

18. Notices: A notice to Buyer or Seller shall be valid if it is in writing and if delivered via any method, public or private, which requires the recipient to acknowledge delivery of the same. If failure to send a notice before the end of a time period waives a right, the notice is effective when sent. All other notices are effective upon receipt unless recipient refuses delivery. If delivery is refused, the notice is effective when sent.

19. Limitations on Time and Damages: Any claim that either Seller or Buyer may have against the other shall be barred if demand therefore is not made within 180 days of the date of occurrence of the event giving rise thereto and a demand for arbitration is not made within 180 days of the date of the aforementioned demand. Notwithstanding the foregoing, the limitation of time provided in this paragraph shall not apply to the recovery of Seller of any sum owed by Buyer to Seller. Neither party shall be liable for special, incidental, indirect or consequential damages, including, without limiting the generality of the foregoing, lost profits, whether or not caused by breach of warranty or resulting from negligence or any other cause. In the event that a defective Product causes damages or injuries to the Product, to Buyer's business, to the end user's business, to other equipment, to a factory or place of business, or to employees or other persons, Seller's liability to Buyer shall be limited (except as provided by law) to the remedies provided above under paragraph 10 if the warranty period has not expired. If such warranty period has expired, Seller shall not be liable for such damages or injuries, provided, however, that if a court of competent jurisdiction shall find as a matter of law that any clause of this paragraph is unlawful, it is agreed that Seller's liability shall be limited solely to a U.S. dollar amount equal to the cost of the defective Product to Buyer. The remedies in this paragraph shall be Buyer's sole remedies.

20. Governing Law: This Agreement shall be construed under and in accordance with the laws of the State of South Carolina except for those principles of conflicts of law which may have the effect rejecting venue as consented to hereinafter.

21. Waiver of Jury Trial: Buyer and Seller hereby waive, to the fullest extent permitted by applicable law, any right they or either of them may have to a trial by jury in respect to any litigation directly or indirectly arising out of, under or in connection with this agreement.

22. Consent to Venue: All litigation between the parties shall be commenced and maintained in either the United States District Court for the District of South Carolina or any state court sitting in Spartanburg County, South Carolina. Buyer and Seller consent to venue in and the jurisdiction of the United States District Court for the District of South Carolina and to venue in and the jurisdiction of any South Carolina state court sitting in Spartanburg County, South Carolina for all litigation which may be brought to enforce a judgment.

Seller makes no warranties, expressed or implied, except as otherwise specifically herein provided. No implied warranty of merchantability is made; and, no warranty of fitness is made. Seller shall have no obligation to Buyer for special, incidental, indirect or consequential damages of any kind, including lost profits.