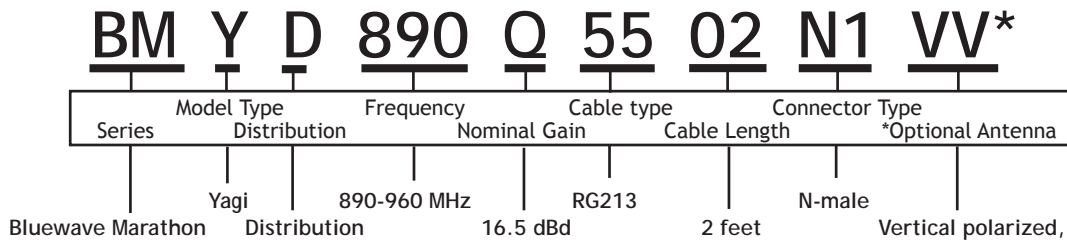


Parts Number Guide

PCTEL's Bluewave Antennas use the following model to generate product codes. This structure outlines the electrical and mechanical specifications of each antenna.



SERIES
BM = Bluewave Marathon
BS = Bluewave Summit
BG = Bluewave Guardian
BW = Bluewave Other

MODEL TYPE
C = Clamps
E = Exposed Offset
J = Jumpers
O = Omni-Collinear
S = Surge Suppressor
Y = Yagi

FREQUENCY IN MHZ	
138 = 138-143	470 = 470-490
139 = 138-174	490 = 490-512
143 = 143-148	515 = 515-550
148 = 148-152	550 = 550-610
152 = 152-157	610 = 610-670
157 = 157-163	630 = 630-665
163 = 163-169	670 = 670-730
169 = 169-174	690 = 690-746
210 = 210-240	745 = 745-806
211 = 211-221	764 = 764-860
216 = 216-226	806 = 806-896
221 = 221-231	853 = 853-933
230 = 230-240	890 = 890-960
231 = 230-260	900 = 900-960
340 = 340-385	902 = 902-928
375 = 375-403	945 = 945-985
403 = 403-430	1350 = 1350-1454
404 = 403-470	1351 = 1350-1390
430 = 430-450	1428 = 1428-1454
440 = 440-512	18X = 1850-1990
450 = 450-470	24X = 2400-2485

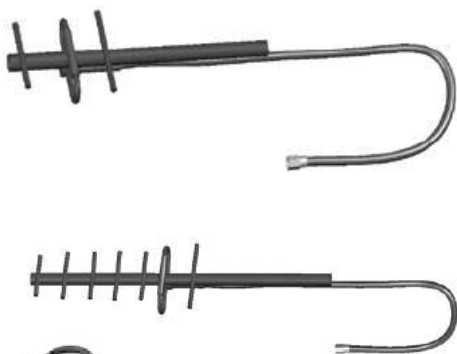
NOMINAL GAIN (dBd < 1 GHz; dBi > 1 GHz)
A = 0
B = 1 & 1.5
C = 2 & 2.5
D = 3 & 3.5
E = 4 & 4.5
F = 5 & 5.5
G = 6 & 6.5
H = 7 & 7.5
I = 8 & 8.5
J = 9 & 9.5
K = 10 & 10.5
L = 11 & 11.5
M = 12 & 12.5
N = 13 & 13.5
O = 14 & 14.5
P = 15 & 15.5
Q = 16 & 16.5

CABLE TYPE [Does not appear in every part number]
01 = LMR100
02 = LMR195
10 = LMR200
20 = LMR240
30 = LMR400
31 = double braided LMR400
52 = RG58
53 = RG142
54 = RG174
55 = RG213

DISTRIBUTION [Does not appear in every part number]
D = General Distribution

CONNECTOR TYPE [Does not appear in every part number]
B1 = BNC male
N1 = N male
N2 = N male 90°
N4 = N female
S1 = M SMA
S2 = SMA male reverse polarity
S3 = SMA male 90°
S5 = SMA female reverse polarity (RG174)
S7 = SMA female reverse polarity
T1 = TNC male

ANTENNA CONFIGURATIONS [Does not appear in every part number]
B1 = Bidirectional
B2 = Bidirectional omni
C0 = Standard CGB installation in-line
H2 = Half wave spacing - 2° downtilt
H4 = Half wave spacing - 4° downtilt
H6 = Half wave spacing - 6° downtilt
H8 = Half wave spacing - 8° downtilt
HH = Horizontal polarized, horizontal stacked dual yagi
HV = Horizontal polarized, vertical stacked dual yagi
HX = Half wave spacing - 10° downtilt
Q0 = Quarter wave spacing - no downtilt
Q2 = Quarter wave spacing - 2° downtilt
Q4 = Quarter wave spacing - 4° downtilt
Q6 = Quarter wave spacing - 6° downtilt
Q8 = Quarter wave spacing - 8° downtilt
QX = Quarter wave spacing - 10° downtilt
T = Teflon coated
VH = Vertical polarized, horizontal stacked dual yagi
VV = Vertical polarized, vertical stacked dual yagi



BMXD1350H (top) and
BMXD1350K (bottom) with
BWC1001 mount (inset)



Technical Data

Maximum Power: 100 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Yagi Antennas, 1350-1454 MHz

The BMXD1350 has been designed to meet the requirements of a high gain, broadband, premium quality antenna, operating in the 1350-1454 MHz range. The BMXD1350 is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD1350H	1350-1454 MHz	100°	62°	15 dB	7 dBd
BMXD1350K	1350-1454 MHz	56°	46°	18 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD1350H	12" x 4.4"	0.58 lbs	2.00 ft ²	0.1 lbs	125 mph
BMXD1350K	19" x 4.4"	0.77 lbs	2.29 ft ²	0.15 lbs	125 mph

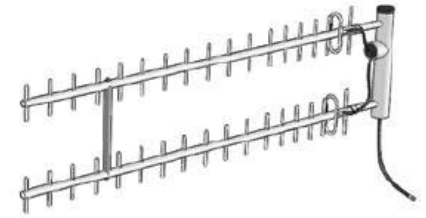
Model	Elements	Cable Type	Cable Length	Connector Type
BMXD1350H	3	RG213	2 ft	N female
BMXD1350K	7	RG213	2 ft	N female

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Bluewave Dual Stacked Yagi Antennas, 890-960 MHz

The BMY890Q has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 16.5 dBd gain and operates in the 890-960 MHz range. The BMY890Q is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMY890QVV antenna (top) and BWC1002 mount (inset)



Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMY890Q5502N1HH	890-960 MHz	26°	21°	25 dB	16.5 dBd
BMY890Q5502N1HV	890-960 MHz	22°	29°	25 dB	16.5 dBd
BMY890Q5502N1VH	890-960 MHz	29°	22°	25 dB	16.5 dBd
BMY890Q5502N1VV	890-960 MHz	26°	21°	25 dB	16.5 dBd
BMY890Q5502N4VH	890-960 MHz	29°	22°	25 dB	16.5 dBd



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1002 (VV model) BWC1003 (all other models)

For detailed specifications, visit <http://antenna.pctel.com>.

Mechanical Specifications

Model	Antenna Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMY890Q5502N1HH	63" x 2.38"	10.5 lbs	1.9 ft ²	47.5 lbs	125 mph
BMY890Q5502N1HV	63" x 6.6"	10.5 lbs	1.9 ft ²	47.5 lbs	125 mph
BMY890Q5502N1VH	63" x 15.5"	10.5 lbs	1.9 ft ²	47.5 lbs	125 mph
BMY890Q5502N1VV	63" x 19.5"	10.5 lbs	1.9 ft ²	47.5 lbs	125 mph
BMY890Q5502N4VH	63" x 6.6"	3.5 lbs	1.9 ft ²	47.5 lb	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type	Antenna Configuration
BMY890Q5502N1HH	18	RG213	2 ft	N male	Horizontally polarized, horizontal stacked dual yagi
BMY890Q5502N1HV	18	RG213	2 ft	N male	Horizontally polarized, vertical stacked dual yagi
BMY890Q5502N1VH	18	RG213	2 ft	N male	Vertically polarized, horizontal stacked dual yagi
BMY890Q5502N1VV	18	RG213	2 ft	N male	Vertically polarized, vertical stacked dual yagi
BMY890Q5502N4VH	18	RG213	2 ft	N female	Vertically polarized, horizontal stacked dual yagi

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Bluewave Yagi Antennas, 890-960 MHz, 3 dBd Gain

The BMXD890D series has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. The antenna has 3 dBd gain and operates in the 890-960 MHz range. The BMXD890D is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector.



BMXD890D antenna (top) with BWC1001 mount (left)

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD890D	890-960 MHz	168°	78°	10 dB	3 dBd

Mechanical Specifications

Model	Antenna Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD890D	13" x 6.8"	1.3 lbs	0.11 ft ²	2.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD890D	2	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

For detailed specifications, visit <http://antenna.pctel.com>.

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)



BMXD890G antenna (top)
with BWC1001 mount (left)

Bluewave Yagi Antennas, 890-960 MHz, 6.5 dBd Gain

The BMXD890G series has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna has 3 dBd gain models and operates in the 890-960 MHz range. The BMXD890G is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector.



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

For detailed specifications,
visit <http://antenna.pctel.com>.

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD890G	890-960 MHz	100°	62°	15 dB	6.5 dBd

Mechanical Specifications

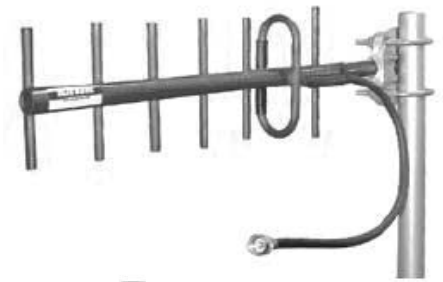
Model	Antenna Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD890G	13" x 6.8"	2.0 lbs	0.12 ft ²	3 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD890G	3	RG213	2 ft	N female

* Dimension does not include antenna cable
**120 mph with 1/2" radial ice (mph)

Bluewave Yagi Antennas, 890-960 MHz, 10 dBd Gain

The BMXD890K series has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. The antenna has 10 dBd gain and operates in the 890-960 MHz range. The BMXD890K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD890K antenna (top) with BWC1001 mount (left)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector.

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD890K	890-960 MHz	56°	46°	20 dB	10 dBd

Mechanical Specifications

Model	Antenna Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD890K	24" x 6.8"	6.8 lbs	0.24 ft ²	6 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD890K	7	RG213	2 ft	N female

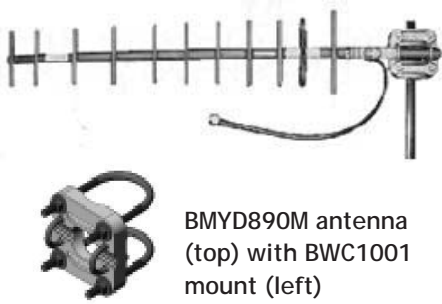


Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

For detailed specifications, visit <http://antenna.pctel.com>.

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)



Bluewave Yagi Antennas, 890-960 MHz, 12 dBd Gain

The BMXD890M series has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna has 12 dBd gain and operates in the 890-960 MHz range. The BMXD890M is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector.



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD890M	890-960 MHz	40°	34°	20 dB	12 dBd

Mechanical Specifications

Model	Antenna Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD890M	37" x 6.6"	2.5 lbs	0.35 ft ²	8.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD890M	11	RG213	2 ft	N female

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)

Bluewave Yagi Antennas, 890-960 MHz, 14 dBd Gain

The BMXD8900 series has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna has 14 dBd gain and operates in the 890-960 MHz range. The BMXD8900 is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD8900 antenna (top) with BWC1001A mount (left)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD8900	890-960 MHz	32°	26°	25 dB	14 dBd

Mechanical Specifications

Model	Antenna Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD8900	63" x 6.6"	3.5 lbs	0.67 ft ²	16.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD8900	18	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

For detailed specifications, visit <http://antenna.pctel.com>.

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)



BMXD806D antenna (top) and BWC1001 mount (inset)

Yagi Antennas, 806-896 MHz, 3 dBd gain

The BMXD806D has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 3 dBd gain and operates in the 806-896 MHz range. The BMXD806D is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD806D	806-896 MHz	168°	74°	10 dB	3 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD806D	13" x 8.5"	1.3 lbs	0.11 ft ²	2.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD806D	2	RG213	2 ft	N female

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Yagi Antennas, 806-896 MHz, 6.5 dBd gain

The BMXD806G has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 6.5 dBd gain and operates in the 806-896 MHz range. The BMXD806G is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD806G	806-896 MHz	100°	62°	15 dB	6.5 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD806G	13" x 6.8"	1.5 lbs	0.12 ft ²	3 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD806G	3	RG213	2 ft	N female

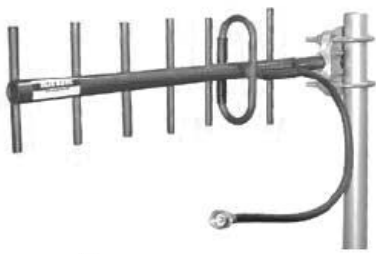


Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BMXD806K antenna (top) and BWC1001 mount (inset)

Yagi Antennas, 806-896 MHz, 10 dBd gain

The BMXD806K has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 10 dBd gain and operates in the 806-896 MHz range. The BMXD806K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD806K	806-896 MHz	60°	46°	20 dB	10 dBd

Mechanical Specifications

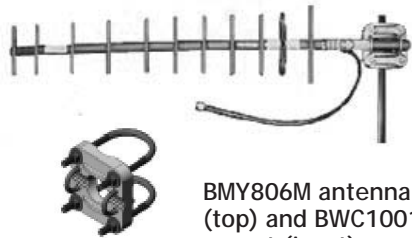
Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD806K	24" x 6.8"	2 lbs	0.24 ft ²	6	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD806K	7	RG213	2 ft	N female

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)

Yagi Antennas, 806-896 MHz, 12 dBd gain

The BMXD806M has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 12 dBd gain and operates in the 806-896 MHz range. The BMXD806M is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD806M antenna (top) and BWC1001 mount (inset)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD806M	806-896 MHz	44°	38°	20 dB	12 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity*
BMXD806M	37" x 6.8"	2.5 lbs	0.38 ft ²	9.5 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD806M	11	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)



BMXD8060 antenna (top) and BWC1001A mount (inset)

Yagi Antennas, 806-896 MHz, 14 dBd gain

The BMXD8060 has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 14 dBd gain and operates in the 806-896 MHz range. The BMXD8060 is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD8060	806-896 MHz	36°	30°	25 dB	14 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD8060	60" x 7.3"	3.5 lbs	0.67 ft ²	16.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD8060	18	RG213	2 ft	N female

* Dimension does not include antenna cable

**80 mph with 1/2" radial ice (mph)

Yagi Antennas, 745-806 MHz, 6.5 dBd Gain

The BMXD745G has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 6.5 dBd gain and operates in the 745-806 MHz range. The BMXD745G is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



BMXD745G antenna (top) and BWC1001 mount (inset)

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD745G	745-806 MHz	102°	65°	15 dB	6.5 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD745G	18" x 7.5"	1.5 lbs	0.16 ft ²	4 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD745G	3	RG213	2 ft	N female

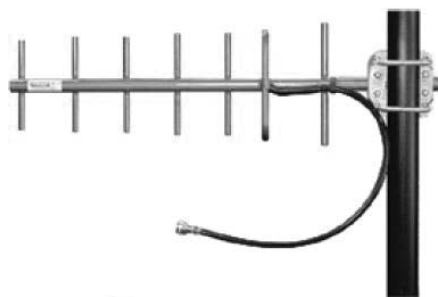


Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BMXD745K antenna (top) and BWC1001 mount (inset)

Yagi Antennas, 745-806 MHz, 10 dBd Gain

The BMXD745K series has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 10 dBd gain and operates in the 745-806 MHz range. The BMXD745K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD745K	745-806 MHz	56°	47°	20 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD745K	26" x 7.5"	2.2 lbs	0.28 ft ²	7 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD745K	7	RG213	2 ft	N female

* Dimension does not include antenna cable

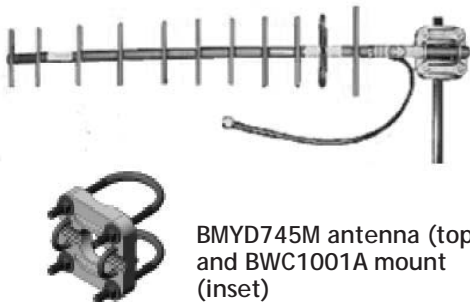
**120 mph with 1/2" radial ice (mph)

Yagi Antennas, 745-806 MHz, 12 dBd Gain

The BMXD745M has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 12 dBd gain and operates in the 745-806 MHz range. The BMXD745M is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



BMXD745M antenna (top) and BWC1001A mount (inset)

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD745M	745-806 MHz	44°	38°	20 dB	12 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD745M	42" x 8.5"	9 lbs	0.48 ft ²	9.5 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD745M	11	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

* Dimension does not include antenna cable
**120 mph with 1/2" radial ice (mph)



BMXD690G antenna (top) and BWC1001 mount (inset)

Yagi Antennas, 690-746 MHz, 6.5 dBd gain

The BMXD690G has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 6.5 dBd gain and operates in the 690-746 MHz range. The BMXD690G is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization. The BMXD690G is available with a variety of connector and cable options.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: BWC1001

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD690G	690-746 MHz	36°	33°	20 dB	6.5

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD690G	20" x 7.5"	1.5 lbs	0.18 ft ²	4 lbs	150 mph

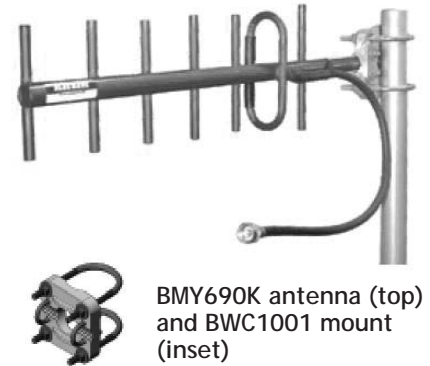
Model	Elements	Cable Type	Cable Length	Connector Type
BMXD690G	3	RG213	2 ft	N female

* Dimension does not include antenna cable

**125 mph with 1/2" radial ice (mph)

Yagi Antennas, 690-746 MHz, 10 dBd gain

The BMXD690K has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 10 dBd gain and operates in the 690-746 MHz range. The BMXD690K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD690K antenna (top) and BWC1001 mount (inset)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD690K	690-746 MHz	56°	47°	20 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD690K	26" x 7.5"	2.2 lbs	0.28 ft ²	7 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD690K	7	RG213	2 ft	N female



Technical Data

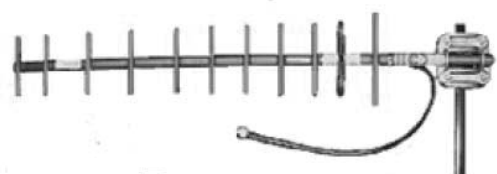
Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Yagi Antennas, 690-746 MHz, 12 dBd Gain

The BMXD690M has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 12 dBd gain and operates in the 690-746 MHz range. The BMXD690M is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD690M antenna (top) and BWC1001A mount (inset)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD690M	690-746 MHz	44°	38°	20 dB	12 dBd

Mechanical Specifications

Model	Dimensions (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD690M	42" x 8.5"	9 lbs	0.48 ft ²	9.5 lbs	150 mph

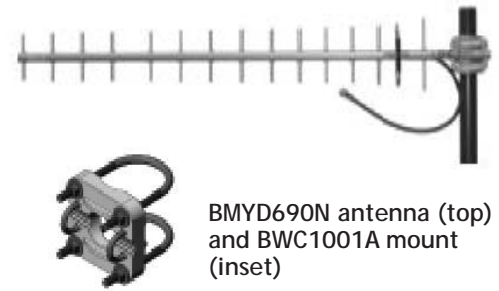
Model	Elements	Cable Type	Cable Length	Connector Type
BMXD690M	11	RG213	2 ft	N female

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Yagi Antennas, 690-746 MHz, 13.5 dBd

The BMXD690N has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 13.5 dBd gain and operates in the 690-746 MHz range. The BMXD690N is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD690N antenna (top) and BWC1001A mount (inset)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD690N	690-746 MHz	36°	33°	20 dB	13.5 dBd

Mechanical Specifications

Model	Dimensions (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD690N	60" x 8.5"	9 lbs	0.67 ft ²	16.75 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD690N	15	RG213	2 ft	N female

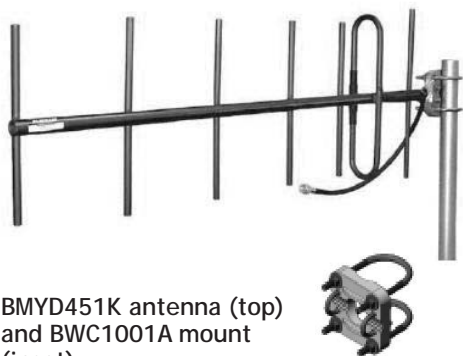


Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

* Dimension does not include antenna cable

**125 mph with 1/2" radial ice (mph)



Yagi Antennas, 450-480 MHz, 10 dBd gain

The BMXD451K has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 10 dBd gain and operates in the 450-480 MHz range. The BMXD451K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD451K	450-480 MHz	52°	45°	20 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD451K	42" x 11.8"	3 lbs	0.46 ft ²	11.5 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD451K	7	RG213	2 ft	N female

* Dimension does not include antenna cable
 **80 mph with 1/2" radial ice (mph)

Yagi Antennas, 450-480 MHz, 12 dBd gain

The BMXD451M has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 12 dBd gain and operates in the 450-470 MHz range. The BMXD451M is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.



BMXD451M antenna (top) and BWC1001A mount (inset)



Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD451M	450-470 MHz	44°	39°	20 dB	12 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD451M	72" x 13"	4 lbs	0.85 ft ²	21.25 lbs	100 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD451M	11	RG213	2 ft	N female



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

* Dimension does not include antenna cable

**80 mph with 1/2" radial ice (mph)



BMXD450D antenna (top) and BWC1001 mount (inset)



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Yagi Antennas, 450-470 MHz, 3 dBd gain

The BMXD450D has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 3 dBd gain and operates in the 450-470 MHz range. The BMXD450D is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD450D	450-470 MHz	156°	70°	8 dB	3 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD450D	13" x 18.5"	1.5 lbs	0.17 ft ²	4.25 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD450D	2	RG213	2 ft	N female

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)

Yagi Antennas, 450-470 MHz, 6.5 dBd gain

The BMXD450G has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 6.5 dBd gain and operates in the 450-470 MHz range. The BMXD450G is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



BMXD450G antenna (top) and BWC1001 mount (inset)

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD450G	450-470 MHz	104°	65°	15 dB	6.5 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD450G	18" x 13"	2 lbs	0.21 ft ²	5.25 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD450G	3	RG213	2 ft	N female

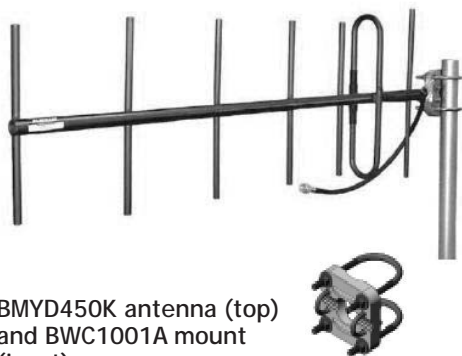


Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BMYD450K antenna (top) and BWC1001A mount (inset)

Yagi Antennas, 450-470 MHz, 10 dBd gain

The BMYD450K has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 10 dBd gain and operates in the 450-470 MHz range. The BMYD450K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMYD450K	450-470 MHz	50°	45°	20 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMYD450K	42" x 11.8"	3 lbs	0.46 ft ²	11.5 lbs	150 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMYD450K	7	RG213	2 ft	N female

* Dimension does not include antenna cable
 **80 mph with 1/2" radial ice (mph)

Yagi Antennas, 403-430 MHz, 6.5 dBd Gain

The BMXD403G has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 6.5 dBd gain and operates in the 403-430 MHz range. The BMXD403G is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD403G	403-430 MHz	104°	62°	15 dB	6.5 dBd

Mechanical Specifications

Model	Dimensions (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD403G	18" x 18.8"	2 lbs	0.23 ft ²	5.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD403G	3	RG213	2 ft	N Female



BMXD403G antenna (top) and BWC1001 mount (inset)

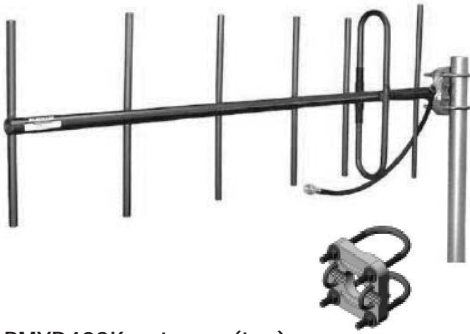


Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BMXD403K antenna (top) and BWC1001 mount (inset)

Yagi Antennas, 403-430 MHz, 10 dBd gain

The BMXD403K has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides 10 dBd gain and operates in the 403-430 MHz range. The BMXD403K is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions. All elements are welded to the boom and the dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity. This eliminates misalignment or fastener problems. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits horizontal or vertical polarization.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BMXD403K	403-430 MHz	52°	46°	20 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BMXD403K	44" x 14.3"	3.5 lbs	0.53 ft ²	20.84 lbs	100 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BMXD403K	7	RG213	2 ft	N female

* Dimension does not include antenna cable

**80 mph with 1/2" radial ice (mph)

Yagi Antennas, 890-960 MHz, 6.5 dBd gain

The BGYD890G has been engineered to provide high gain broadband performance between the frequencies of 890-960 MHz. Solid 3/8" aluminum elements complement the fully welded dipole on the boom. The black powder coat BGYD890G comes with an integral low loss 2' RG213 feed line with a standard N-Female connector. High strength mounting clamp is supplied for vertical or horizontal polarization.

Features

- Dipole fully-welded to boom
- Black powder coat over stainless steel antenna assembly
- Mounting clamp included
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BGYD890G	890-960 MHz	110°	160°	15 dB	6.5 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGYD890G	14" x 6.8"	1.5 lbs	0.12 ft ²	3 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BGYD890G	3	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum
Mounting Method: Includes mounting hardware BWC1022

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BGYD890K antenna (top) and BWC1022 mount (inset)

Yagi Antennas, 890-960 MHz, 10 dBd gain

The BGYD890K has been engineered to provide high gain broadband performance between the frequencies of 890-960 MHz. Solid 3/8" aluminum elements complement the fully welded dipole on the boom. The black powder coat BGYD890K comes with an integral low loss 2' RG213 feed line with a standard N-Female connector. High strength mounting clamp is supplied for vertical or horizontal polarization.

Features

- Dipole fully-welded to boom
- Through-boom elements fixed with stainless steel antenna screws
- Mounting clamp included
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BGYD890K	890-960 MHz	56°	46°	20 dB	10 dBd



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1022

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGYD890K	24" x 6.8"	2 lbs	0.24 ft ²	6 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BGYD890K	7	RG213	2 ft	N female

* Dimension does not include antenna cable

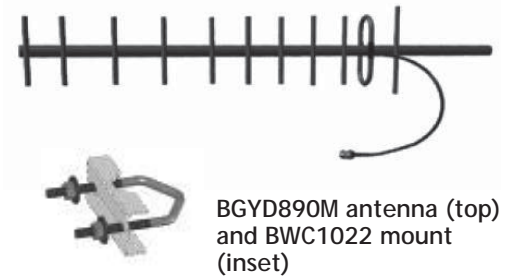
**120 mph with 1/2" radial ice (mph)

Yagi Antennas, 890-960 MHz, 12 dBd gain

The BGYD890M has been engineered to provide high gain broadband performance between the frequencies of 890-960 MHz. Solid 3/8" aluminum elements complement the fully welded dipole on the boom. The black powder coat BGYD890M comes with an integral low loss 2' RG213 feed line with a standard N-Female connector. High strength mounting clamp is supplied for vertical or horizontal polarization.

Features

- Dipole fully-welded to boom
- Black powder coat over stainless steel antenna assembly
- Mounting clamp included
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BGYD890M	890-960 MHz	40°	34°	20 dB	12 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGYD890M	37" x 6.6"	2.5 lbs	0.35 ft ²	8.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BGYD890M	11	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum
Mounting Method: Includes mounting hardware BWC1022

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BGYD806K antenna (top) and BWC1022 mount (inset)

Yagi Antennas, 806-896 MHz, 10 dBd gain

The BGYD806K has been engineered to provide high gain broadband performance between the frequencies of 806-896 MHz. Solid 3/8" aluminum elements complement the fully welded dipole on the boom. The black powder coat BGYD806K comes with an integral low loss 2' RG213 feed line with a standard N-Female connector. High strength mounting clamp is supplied for vertical or horizontal polarization.

Features

- Dipole fully-welded to boom
- Black powder coat over stainless steel antenna assembly
- Mounting clamp included
- Antenna is supplied with a 2' pigtail (RG213) and N female connector

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BGYD806K	806-896 MHz	60°	46°	20 dB	10 dBd



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum
Mounting Method: Includes mounting hardware BWC1022

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGYD806K	24" x 6.8"	2 lbs	0.24 ft ²	6 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BGYD806K	7	RG213	2 ft	N female

* Dimension does not include antenna cable
 **120 mph with 1/2" radial ice (mph)

Yagi Antennas, 450-470 MHz, 10 dBd gain

The BGYD450K has been engineered to provide high gain broadband performance between the frequencies of 450-470 MHz. Solid 7/16" aluminum elements complement the fully welded dipole on the boom. The black powder coat BGYD450K comes with an integral low loss 2' RG213U feed line with a standard N-Female connector. High strength mounting clamp is supplied for vertical or horizontal polarization.

Features

- Dipole fully-welded to boom
- Black powder coat over stainless steel antenna assembly
- Mounting clamp included
- Antenna is supplied with a 2' pigtail (RG213) and N female connector



BGYD450K antenna (top) and BWC1001 mount (inset)



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BGYD450K	450-470 MHz	0°	45°	20 dB	10 dBd



Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGYD450K	42" x 11.8"	3 lbs	0.46 ft ²	11.5 lbs	150 mph

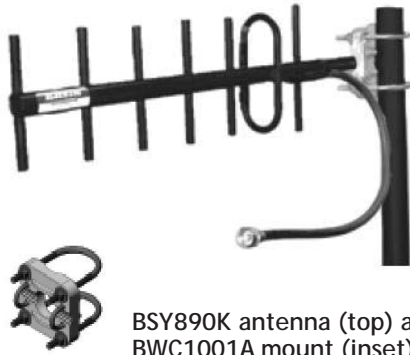
Model	Elements	Cable Type	Cable Length	Connector Type
BGYD450K	7	RG213	2 ft	N female

Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum
Mounting Method: Includes mounting hardware BWC1001

* Dimension does not include antenna cable

**80 mph with 1/2" radial ice (mph)



BSY890K antenna (top) and BWC1001A mount (inset)

Yagi Antennas, 890-960 MHz, 10 dBd gain

The BSY890K has been engineered to meet the highest requirements for an extremely rugged, high gain, premium quality antenna. This antenna provides 10 dBd gain and operates in the 890-960 MHz range. The BSY890K features all welded construction, 6061-T6 material with a heavy gauge 1 1/2" Schedule 40 boom for increased strength to withstand extreme ice and snow, wind and other extreme weather conditions. Entire frame assembly is PTFE coated to minimize ice buildup and comes with a variety of connector and cable options.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Fully welded construction for maximum reliability and low intermod properties
- Oversized heavy gauge boom
- Double gussets for maximum strength



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6
Mounting Method: Includes mounting hardware BWC1001A

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BSY890K series	890-960 MHz	56°	46°	20 dB	10 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BSY890K3005N4	24" x 6.8"	2 lbs	0.24 ft ²	6 lbs	125 mph
BSY890K5502N1	24" x 6.8"	2 lbs	0.24 ft ²	6 lbs	125 mph
BSY890K5502N4	24" x 6.8"	2 lbs	0.24 ft ²	6 lbs	125 mph
BSY890K5530N1	24" x 6.8"	2 lbs	0.24 ft ²	6 lbs	125 mph

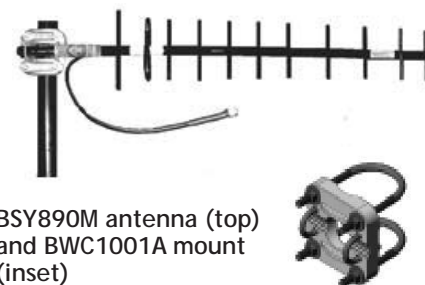
Model	Elements	Cable Type	Cable Length	Connector Type
BSY890K3005N4	7	LMR400	5 ft	N female
BSY890K5502N1	7	RG213	2 ft	N male
BSY890K5502N4	7	RG213	2 ft	N female
BSY890K5530N1	7	RG213	30 ft	N male

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Yagi Antennas, 890-960 MHz, 12 dBd gain

The BSY890M has been engineered to provide high gain broadband performance between the frequencies of 890-960 MHz. This antenna provides 12 dBd gain and operates in the 890-960 MHz range. The BSY890M features all welded construction, 6061-T6 material with a heavy gauge 1 1/2" Schedule 40 boom for increased strength to withstand extreme ice and snow, wind and other extreme weather conditions. Entire frame assembly is PTFE coated to minimize ice buildup and comes with a variety of connector and cable options.



BSY890M antenna (top) and BWC1001A mount (inset)

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Fully welded construction for maximum reliability and low intermod properties
- Oversized heavy gauge boom
- Double gussets for maximum strength

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BSY890M series	890-960 MHz	40°	34°	20 dB	12 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BSY890M5502N1	37" x 6.6"	2.5 lbs	0.35 ft ²	8.75 lbs	125 mph
BSY890M5502N4	37" x 6.6"	2.5 lbs	0.35 ft ²	8.75 lbs	125 mph

Model	Elements	Cable Type	Cable Length	Connector Type
BSY890M5502N1	11	RG213	2 ft	N male
BSY890M5502N4	11	RG213	2 ft	N female



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum
Mounting Method: Includes mounting hardware BWC1001A

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



BMO902J with BWC1002 clamp (left) and BMO902G antenna with BWC1005 clamp (right)



Technical Data

Maximum Power: 250 watts (BMO1428 series) 200 watts (BMO902 series)
Nominal Impedance: 50 ohms
Connector Type: N female
Mounting Method: BWC1002 clamp included (BMO902 series) BWC1005 clamp included (BMO1420 series)

Omnidirectional Antennas

The BMO series has been designed to provide omni-directional coverage in the various frequency bands. Antenna base is anodized 6061-T6 aluminum to provide a solid, secure mount for the N-Female termination. The BMO antennas are fully encased in a UV-stable, heavy-duty fiberglass radome to withstand harsh environmental conditions.

Features

- Heavy duty, fiberglass radome
- Mounting hardware and clamps are included

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Nominal Gain
BMO1428F	1428-1454 MHz	360°	28°	5 dBi
BMO1428I	1428-1454 MHz	360°	22°	8 dBd
BMO902D	902-928 MHz	360°	28°	3 dBd
BMO902G	902-928 MHz	360°	15°	6 dBd
BMO902J	902-928 MHz	360°	5°	9 dBd

Mechanical Specifications

Model	Dimensions (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity
BMO1428F	33" x 2"	2.7 lbs	.34 ft ²	14.08 lbs	150 mph**
BMO1428I	48" x 2"	4.1 lbs	.75 ft ²	16.4 lbs	150 mph**
BMO902D	52" x 2.5"	5 lbs	.83 ft ²	20.75 lbs	150 mph**
BMO902G	72.5" x 2.5"	10 lbs	1.17 ft ²	29.25 lbs	150 mph**
BMO902J	120.5" x 2.5"	12.5 lbs	1.9 ft ²	47.5 lbs	120 mph***

**125 mph with 1/2" radial ice
***90 mph with 1/2" radial ice

Omnidirectional Antennas, 902-928 MHz, 3 dB Gain

The BGO902D has been designed to provide omni directional performance in the 902-928 MHz frequency band. Antenna base is 6061-T6 Aluminum to provide a solid secure mount for the N-Female termination. The BGO902D is fully enclosed in a UV-stable all season radome.

Features

- All season lightweight clamp and radome
- High strength, extra long Aluminum support collar with vent hole

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Nominal Gain
BGO902D	902-928 MHz	360°	28°	3 dBd

Mechanical Specifications

Model	Dimensions (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGO902D	51.5" x 2.38"	4 lbs	0.72 ft ²	18 lbs	125 mph



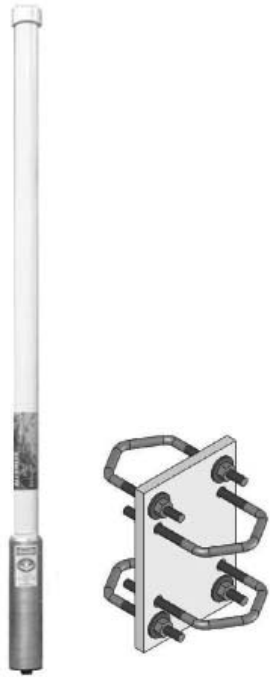
BGO902D (left) with BWC1005 clamp (right)



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Mounting Method: BWC1005 clamp included

**100 mph with 1/2" radial ice



BGO902G (left) with BWC1005 clamp (right)

Omnidirectional Antennas, 902-928 MHz, 6 dB Gain

The BGO902G has been designed to provide omni directional performance in the 902-928 MHz frequency band. Antenna base is 6061-T6 aluminum to provide a solid secure mount for the N-Female termination. The BGO902G is fully enclosed in a UV-stable all season radome.

Features

- All season lightweight clamp and radome
- High strength, extra long Aluminum support collar with vent hole

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Nominal Gain
BGO902G	902-928 MHz	360°	15°	6 dBd

Mechanical Specifications

Model	Dimensions (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BGO902G	71.5" x 2.38"	6 lbs	1.02 ft ²	25.5 lbs	125 mph



Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
Mounting Method: BWC1005 clamp included

**100 mph with 1/2" radial ice

Offset Antennas, 403-470 MHz, 2 dBd Gain

The BME404C is a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna provides 2 dBd gain operating in the 403-470 MHz range and has halfwave spacing to suit your specific needs. This antenna is ideally suited for multi-coupled systems and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME404C series is available with a 5' cable lead and N male connector.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME404CN1H0	403-470 MHz	270°	123°	0 dB	2 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME404CN1H0	60" x 16"	8 lbs	1.4 ft ²	35 lbs	150 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME404CN1H0	Halfwave	RG213	5 ft	N male



Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6

* Dimension does not include antenna cable

**90 mph with 1/2" radial ice



Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6

Offset Antennas, 403-470 MHz, 5 and 5.5 dBd Gain

The BME404F series provides a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna series provides 403-470 MHz range and is ideally suited for multi-coupled systems and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The antennas in this series are available with a 5' cable lead.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME404FN1H0	403-470 MHz	270°	36°	0 dB	5 dBd
BME404FN4H0	403-470 MHz	270°	36°	0 dB	5 dBd
BME404FN1Q0	403-470 MHz	195°	36°	0 dB	5.5 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME404FN1H0	80" x 16"	13 lbs	2.1 ft ²	52.5 lbs	150 mph
BME404FN4H0	80" x 16"	13 lbs	2.1 ft ²	52.5 lbs	150 mph
BME404FN1Q0	80" x 11"	12 lbs	2 ft ²	50 lbs	150 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME404FN1H0	Halfwave	RG213	5 ft	N male
BME404FN4H0	Halfwave	RG213	5 ft	N female
BME404FN1Q0	Quarterwave	RG213	5 ft	N male

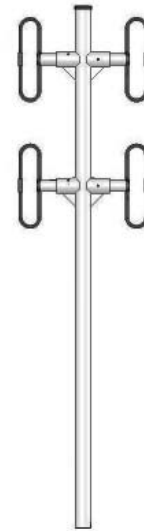
* Dimension does not include antenna cable
 **90 mph with 1/2" radial ice

Offset Antennas, 403-470 MHz, 6 dBd Gain

The BME404G is a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna provides 6 dBd gain operating in the 403-470 MHz range and has quarterwave spacing to suit your specific needs. This antenna is ideally suited for multi-coupled systems and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME404G is available with a 5' cable lead and N male crimp connect.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME404GN1B1	403-470 MHz	55°	38°	0 dB	6 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME404GN1B1	80" x 20"	14 lbs	2.7 ft ²	67.5 lbs	150 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME404GN1B1	Bidirectional	RG213	5 ft	N male crimp



Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6 Hydrophobic coating on caps, dipoles and support tubes

* Dimension does not include antenna cable

**90 mph with 1/2" radial ice



Offset Antennas, 403-470 MHz, 8 and 8.5 dBi

The BME404I is a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna provides frequencies operating in the 403-470 MHz range. This antenna is ideally suited for multi-coupled systems and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME404I series is available with a 5' cable lead and N male connector.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME404IN1H0	403-470 MHz	270°	17°	0 dB	8 dBd
BME404IN1Q0	403-470 MHz	195°	17°	0 dB	8.5 dBd

Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME404IN1H0	120" x 16"	19 lbs	3.6 ft ²	90 lbs	150 mph
BME404IN1Q0	120" x 11"	18 lbs	3.4 ft ²	85 lbs	150 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME404IN1H0	Halfwave	RG213	5 ft	N male
BME404IN1Q0	Quarterwave	RG213	5 ft	N male

* Dimension does not include antenna cable

**90 mph with 1/2" radial ice

Offset Antennas, 403-470 MHz, 11 dBd Gain

The BME404L series provides a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna provides 11 dBd gain operating in the 403-470 MHz range and has halfwave spacing to suit your specific needs. It is ideally suited for multi-coupled systems and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME404L series is available with a 5 feet cable lead and N male connector.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME404LN1H0	403-470 MHz	270°	9°	0 dB	11 dBd
BME404LN1H2	403-470 MHz	270°	9°	0 dB	11 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME404LN1H0	240" x 16"	50 lbs	7.1 ft ²	177.5 lbs	150 mph
BME404LN1H2	240" x 16"	50 lbs	7.1 ft ²	177.5 lbs	150 mph

Model	Antenna Type	Downtilt	Cable Type	Cable Length	Connector Type
BME404LN1H0	Halfwave	0°	RG213	5 ft	N male
BME404LN1H2	Halfwave	2°	RG213	5 ft	N male

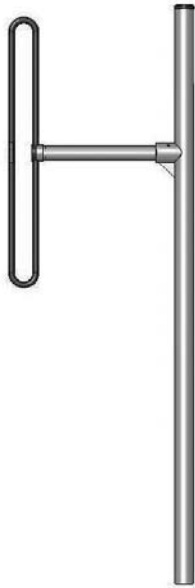


Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6

* Dimension does not include antenna cable

**105 mph with 1/2" radial ice



Offset Antennas, 138-174 MHz, 2 and 2.5 dBd Gain

The BME139C series provides a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna series operates in the 138-174 MHz range and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME139C series is available with a 5' cable leads and N male connector.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME139CN1H0	138-174 MHz	270°	110°	0 dB	2 dBd
BME139CN1Q0	138-174 MHz	195°	60°	0 dB	2.5 dBd



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6 Option for Polytetrafluoroethylene (PTFE) coating on caps, dipoles and support tubes

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME139CN1H0	60" x 40.5"	9.5 lbs	1.8 ft ²	45 lbs	120 mph
BME139CN1Q0	60" x 24"	9 lbs	1.8 ft ²	45 lbs	120 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME139CN1H0	Halfwave	RG213	5 ft	N male
BME139CN1Q0	Quarterwave	RG213	5 ft	N male

* Dimension does not include antenna cable

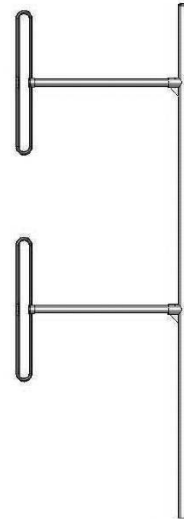
**90 mph with 1/2" radial ice

Offset Antennas, 138-174 MHz, 5 and 5.5 dBd Gain

The BME139F series provides a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna series operates in the 138-174 MHz range and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME139F series is available with a 5' cable lead and N male connector.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance



Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME139FN1H0	138-174 MHz	270°	40°	0 dB	5 dBd
BME139FN1Q0	138-174 MHz	195°	36°	0 dB	5.5 dBd



Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6 Option for Polytetrafluoroethylene (PTFE) coating on caps, dipoles and support tubes

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME139FN1H0	120" x 40.5"	25 lbs	3.6 ft ²	90 lbs	120 mph
BME139FN1Q0	120" x 24"	23.5 lbs	3.2 ft ²	80 lbs	120 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME139FN1H0	Halfwave	RG213	5 ft	N male
BME139FN1Q0	Quarterwave	RG213	5 ft	N male

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)



Offset Antennas, 138-174 MHz, 8 and 8.5 dBd Gain

The BME139I series provides a heavy duty, wide band antenna manufactured using high strength 6061-T6 aluminum. This antenna series operates in the 138-174 MHz range and is manufactured with internal cabling and fixed, welded dipoles. The dipoles are anodized for appearance and corrosion resistance. The BME139I series is available with a 5' cable lead and N male connector.

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Dipole fully-welded to boom
- Antenna is powder coated for corrosion resistance

Antenna Electrical Specifications

Model	Frequency Range	-3 dB Horizontal Beamwidth	-3 dB Vertical Beamwidth	Front to Back Ratio	Nominal Gain
BME139IN1H0	138-174 MHz	270°	20°	0 dB	8 dBd
BME139IN1Q0	138-174 MHz	195°	18°	0 dB	8.5 dBd

Mechanical Specifications

Model	Dimensions* (L x W)	Weight (Mass)	Cross Sectional Area	Lateral Thrust @ 100 mph	Rated Wind Velocity**
BME139IN1H0	240" x 40.5"	55 lbs	7.2 ft ²	180 lbs	110 mph
BME139IN1Q0	240" x 24"	52 lbs	6.4 ft ²	160 lbs	110 mph

Model	Antenna Type	Cable Type	Cable Length	Connector Type
BME139IN1H0	Halfwave	RG213	5 ft	N male
BME139IN1Q0	Quarterwave	RG213	5 ft	N male

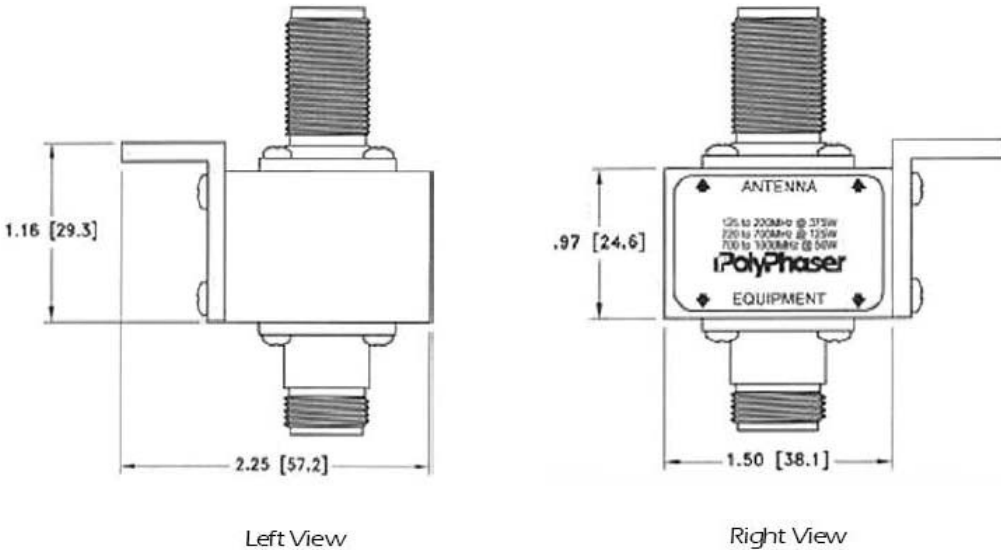
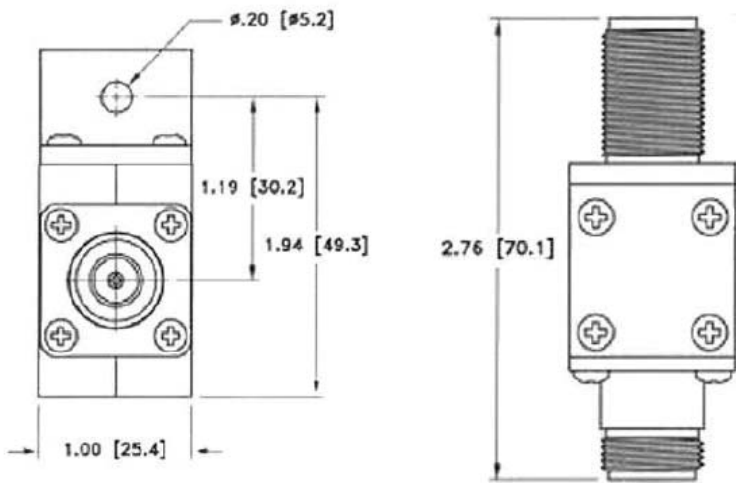
Technical Data

Maximum Power: 300 watts
Nominal Impedance: 50 ohms
Radiator Material: Aluminum 6061-T6

* Dimension does not include antenna cable

**120 mph with 1/2" radial ice (mph)

Bulkhead Mount



Technical Data

Maximum Power: 375W @ 125MHz decreasing to 50W @ 1GHz
Connector: NF to NF

Mechanical Specifications

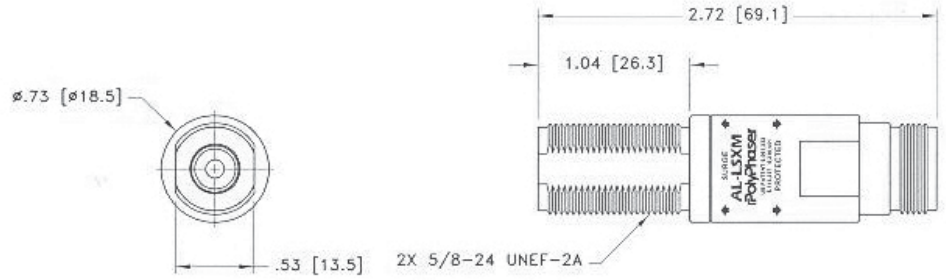
Model	Frequency Range	VSWR	Insertion Loss	Turn-on
BWS07	125 - 1000 MHz	<1.1 over frequency range	<0.1 db over frequency range	600fb Vdc \pm 20%
Model	Throughput Energy	Operating Temperature	Relative Humidity	Vibration
BWS07	<220uJ for 8/20 s waveform	-45°C to +50°C	90% at 40°C	1G at 5Hz to 100Hz

Lightning Arrestor



Patented protection for single or multi-channel transmitters and/or receivers. One of the industry’s BEST RF performance, fully weatherized, compact integrated connector housing, Industry’s lowest throughput energy, maintenance free, and multi-strike compatible for 2.0-6.0 GHz. Weatherproof when installed.

The BWS26 is UL approved and listed (UL497B).



Technical Data

Application: DC Blocked RF
Maximum Power: 10 watts
Unit Impedance: 50 Ω
Thoroughput Energy: ≤ 0.5000 μJ
Connector: NF to NF
Mounting: Bulkhead

Mechanical Specifications

Model	Frequency Range	VSWR	Insertion Loss
BWS26	2.0-6.0 GHz	1.3:1	0.1 dB

BWC Series Mounts

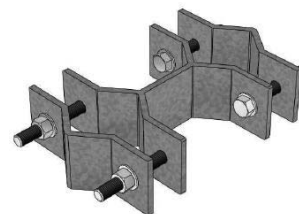
Model	Description	Length	Width	Height	Weight
BWC1001	Yagi clamp, fits mast OD of 0.5 - 0.84". Mounts to legs, towers, accessories with 1.25 - 2.4" OD	4"	1.5"	4"	2 lbs
BWC1001A	Yagi clamp, fits mast OD of 0.75 - 1". Mounts to legs, towers, accessories with 1.25 - 2.4" OD	4"	1.5"	4"	2 lbs
BWC1002	Parallel pipe to pipe clamp, fits 0 - 3.5" to 0 - 3.5" OD pipe. Reverse plates designed to fit 0-1.5"	5"	6.5"	2.5"	7 lbs
BWC1003	Perpendicular pipe to pipe clamp, fits 0 - 3.5" to 0 - 3.5" OD pipe	3.25"	6.5"	6.5"	6.5 lbs
BWC1005	Light duty parallel or perpendicular pipe to pipe clamp, fits 1.5 - 2.4" to 1.5 - 2.4" OD pipe	4"	0.38"	6"	2 lbs
BWC1014A	Rotational perpendicular yagi clamp, fits mast OD of 0.5 - 1". Mounts 90° to legs, towers, accessories with 1.5 - 4.5" OD	5.5"	7.2"	4.5"	5 lbs
BWC1022	Through-boom Guardian yagi clamp, fits 1 - 2.4" OD pipe	4"	1.6"	1"	0.5 lbs



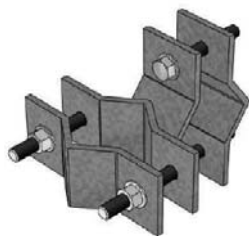
BWC1001



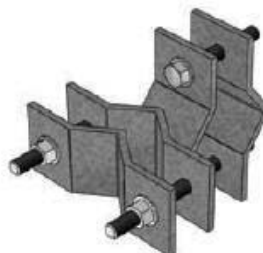
BWC1001(A) - reversible U-bolts



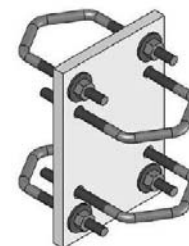
BWC1002



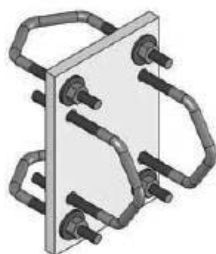
BWC1003



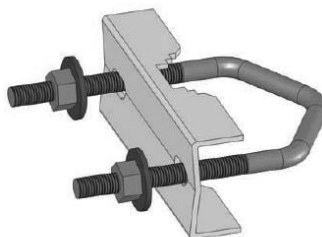
BWC1003 - reverse plates



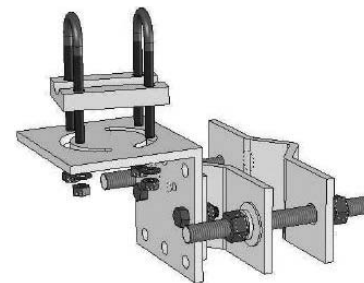
BWC1005



BWC1005 reversible U-bolts



BWC1022



BWC1014A

Jumpers

Model	Cable	Cable Length	Connectors
BWJ02003N1S1	LMR195	3 feet	N male-N SMA
BWJ02004N1N1	LMR195	4 feet	N male-N male
BWJ02A20N1N1	LMR195	20 inches	N male-N male
BWJ02A20N1S1	LMR195	20 inches	N male-N SMA
BWJ02A20N1T1	LMR195	20 inches	N male-TNC male
BWJ10002N1N1	LMR200	2 feet	N male-N male
BWJ10002N1S1	LMR200	2 feet	N male-N SMA
BWJ10002N1T1	LMR200	2 feet	N male-TNC male
BWJ10003N1S1	LMR200	3 feet	N male-N SMA
BWJ10003N1T1	LMR200	3 feet	N male-TNC male
BWJ10003N4S1	LMR200	3 feet	N female-N SMA
BWJ10005N1S1	LMR200	5 feet	N male-N SMA
BWJ10006N1S2	LMR200	6 feet	N male-SMA male reverse polarity
BWJ10006N1T4	LMR200	6 feet	N male-
BWJ10A14N1S1	LMR200	14 inches	N male-N SMA
BWJ10A14N1S3	LMR200	14 inches	N male-SMA male 90°
BWJ10A18N1N1	LMR200	18 inches	N male-N male
BWJ10A18N1S1	LMR200	18 inches	N male-N SMA
BWJ10A18N1S2	LMR200	18 inches	N male-SMA male reverse polarity
BWJ10A18N1T1	LMR200	18 inches	N male-TNC male
BWJ10A18N4S2	LMR200	18 inches	N female-SMA male reverse polarity
BWJ10A20N1S3	LMR200	20 inches	N male-SMA male 90°
BWJ10A20N1T1	LMR200	20 inches	N male-TNC male
BWJ20010N1N1	LMR240	10 feet	N male-N male
BWJ20010N1S3	LMR240	10 feet	N male-SMA male reverse polarity
BWJ20A13N1S1	LMR240	13 inches	N male-N SMA
BWJ20A38N1S2	LMR240	38 inches	N male-SMA male reverse polarity
BWJ30002N1T1	LMR400	2 feet	N male-TNC male
BWJ30003N1S1	LMR400	3 feet	N male-N SMA
BWJ30004N1N1	LMR400	4 feet	N male-N male
BWJ30010N1N1	LMR400	10 feet	N male-N male
BWJ30010N1N4	LMR400	10 feet	N male-N female

Jumpers

Model	Cable	Cable Length	Connectors
BWJ30020N1N1	LMR400	20 feet	N male-N male
BWJ30020N1N4	LMR400	20 feet	N male-N female
BWJ30021N1N4	LMR400	21 feet	N male-N female
BWJ30025N1N1	LMR400	25 feet	N male-N male
BWJ30025N1N4	LMR400	25 feet	N male-N female
BWJ30030N1N1	LMR400	30 feet	N male-N male
BWJ30040N1N1	LMR400	40 feet	N male-N male
BWJ30040N1N4	LMR400	40 feet	N male-N female
BWJ30050N1N1	LMR400	50 feet	N male-N male
BWJ30050N1N4	LMR400	50 feet	N male-N female
BWJ30055N1N1	LMR400	55 feet	N male-N male
BWJ30060N1N4	LMR400	60 feet	N male-N female
BWJ30075N1N1	LMR400	75 feet	N male-N male
BWJ30100N1N1	LMR400	100 feet	N male-N male
BWJ52003S2S7	RG58	3 feet	SMA male reverse polarity-SMA female reverse polarity
BWJ52006S2S7	RG58	6 feet	SMA male reverse polarity-SMA female reverse polarity
BWJ52012S2S7	RG58	12 feet	SMA male reverse polarity-SMA female reverse polarity
BWJ52A08S2S7	RG58	8 feet	SMA male reverse polarity-SMA female reverse polarity
BWJ53003N1N1	RG142	3 feet	N male-N male
BWJ53003N1N2	RG142	3 feet	N male-N male 90°
BWJ53008N1N1	RG142	8 feet	N male-N male
BWJ53008N1N2	RG142	8 feet	N male-N male 90°
BWJ54006M3N1	RG174	6 feet	Mini UHF male-N male
BWJ54012S2S5	RG174	12 feet	SMA male reverse polarity - SMA female reverse polarity
BWJ55020N1N1	RG213	20 feet	N male-N male
BWJ55025N1N4	RG213	25 feet	N male-N female