Marathon Yagi Antennas, 400 MHz Series

PCTEL's Bluewave Marathon 400 MHz frequency series is engineered to meet the requirements of a high gain, broadband, premium quality antenna. The Bluewave yagi series 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 aesthetic appearance and corrosion resistance. A heavy-duty clamp is supplied which easily permits horizontal or vertical polarization.



BMYD403G



BWC1001A mount

Features

- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized aesthetic appearance and for corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N Female connector
- Wind survival rating >150 mph

STANDARD CONFIGURATION

Model	Cable	Connector	Elements	Mount
BMYD403G	2 ft RG213	N Female	3	BWC1001 Clamp bracket for 1/2"-7/8" diameter yagis. Mounts to masts 1.25"-2.4" OD (included with all models)
BMYD403K	2 ft RG213	N Female	7	
BMYD403M	2 ft RG213	N Female	11	
BMYD450G	2 ft RG213	N Female	3	BWC1001A clamp bracket for 3/4"-1" diameter yagis. Mounts to masts 1.25"-2.4" OD included
BMYD450K	2 ft RG213	N Female	7	

ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Gain	Azimuth Half Power Beamwidth	Elevation Half Power Beamwidth	Front to Back Ratio	Maximum Power	Nominal Impedance
BMYD403G	403-430 MHz	6.5 dBd	104°	62°	15 dB	250 watts	50 ohms
BMYD403K	403-430 MHz	10 dBd	52°	46°	20 dB	250 watts	50 ohms
BMYD403M	403-430 MHz	12 dBd	44°	39°	20 dB	250 watts	50 ohms
BMYD450G	450-470 MHz	6.5 dBd	104°	65°	15 dB	250 watts	50 ohms
BMYD450K	450-470 MHz	10 dBd	50°	45°	20 dB	250 watts	50 ohms

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Dimensions*	Weight	Cross Sectional Area	Lateral Thrust @ 100 mph	Lateral Thrust @ 100 mph with ½" of Ice	Bending Moment @ 100 mph
BMYD403G	18" x 13.9" x 3.2"	2 lbs (0.9 kg)	0.19 sq ft	6.23 lbs	19.44 lbs	4.19 lb-ft
BMYD403K	44" x 14.4" x 3.2"	4 lbs (1.8 kg)	0.48 sq ft	18.41 lbs	53.62 lbs	29.4 lb-ft
BMYD403M	72" x 14.4" x 3.2"	3.5 lbs (1.6 kg)	0.84 sq ft	32.3 lbs	86.5 lbs	87.7 lb-ft
BMYD450G	18" x 12.9" x 3.2"	2 lbs (0.9 kg)	0.18 sq ft	5.85 lbs	18.23 lbs	3.87 lb-ft
BMYD450K	42" x 11.8" x 3.2"	3 lbs (1.4 kg)	0.46 sq ft	16.72 lbs	48.49 lbs	25.4 lb-ft

* Dimension do not include antenna cable.