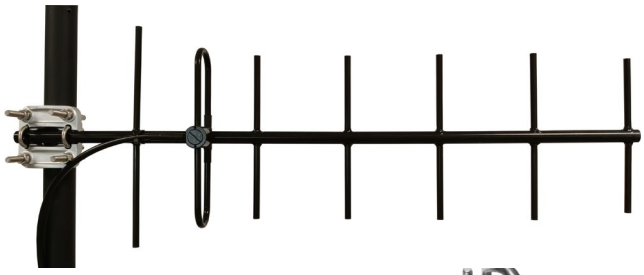
em wave inc.

Product Data Sheet







EM-BY11410-NJ
7 Element Yagi Antenna
10 dBi, 450-470 MHz

- Fully Welded Aluminum Construction
- UV and Environmentally Resistant Black Poly Coat Finish
- Boom: 3/4” 6063 Aluminum
- Radiators: 3/8” 6061 Aluminum, Solid Rod
- V or H Polarization Mountable
- Mounting Hardware Included
- Integrated Low Loss Feeder Cable

Electrical Specifications

Frequency Band	450-470 MHz
VSWR	<1.5:1
Impedance	50Ω
Gain	10 dBi / 7.9 dBd
E-Plane HPBW	56º, typical
H-Plane HPBW	46º, typical
F/B	≥10 dB
Power Handling	250 W

Mechanical Specifications

Color / Finish	Black / Poly Coat
Dimensions	39 x 13.9 x 3.15 in. (991 x 353 x 80mm)
Mounting Diameter, Pipe	1.75 in. dia. (44.5mm), max (1-1/4 in. pipe)
Weight	3.9 lb. (1.8 kg), includes mounting hardware
Mounting Application / Type	Pole/Mast Mount
Feeder Cable / Connector	Low Loss 400 Type / Type N, Jack
Mounting Material	Stainless Steel & Aluminum
Wind Velocity, Rated	134 mph (216 km/h)
Operating Temperature Range	-40° to 85° C
Corrosion	Salt Fog
Humidity	95%

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