

Y4505

450-470 MHz Directional Yagi Antennas

Y4505 directional yagi antennas are fully gold anodized and offer high performance directional coverage in the 450-470 MHz frequency range.

Each antenna is factory tuned on a network analyzer for optimal power match and lowest VSWR.

FEATURES AND BENEFITS

- Fully gold anodized to help prevent corrosion
- All radial elements are welded to the boom
- Delivered fully assembled
- Every yagi is tuned on a network analyzer for optimal power match and lowest VSWR
- Supplied with stainless steel mounting kits

APPLICATIONS

- Point-to-point and multi-point
- Typical applications include transportation such as railroad switching, remote locations reporting examples that include oil fields, weather conditions and, meter data transmissions for utilities

SPECIFICATIONS

ELECTRICAL SPECIFICATION	
Operating Frequency (MHz)	450-470
VSWR - Max	<2.0:1
Return Loss	-10 dB max
Nominal Gain	9.2 dBd / 11.3 dBi
Front to Back Ratio	20 dB
Maximum Power - W	500
Nominal Impedance	50 Ω
Horizontal Beamwidth (For Horizontal Polarization)	115°
Vertical Beamwidth (For Vertical Polarization)	114°
Transmitting/Receiving	Both
Polarization	Vertical or Horizontal
Pattern	Directional

MECHANICAL SPECIFICATION

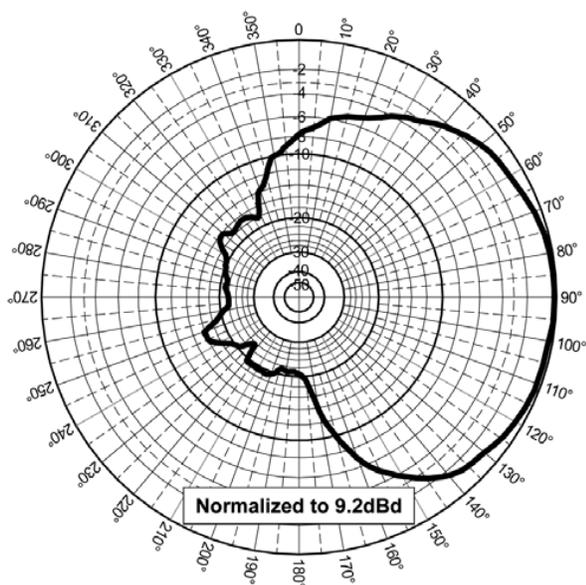
Number of Elements	5
Material	Element - Aluminum - Solid 6061-T6 Rod Boom - Aluminum - Heat Treated 6061-T6 Tube
Length - mm (in.)	940 (37.0)
Height - mm (in.)	342.9 (13-1/2)
Boom Diameter - mm (in.)	22.2 (7/8)
Weight - kg (lbs.)	0.9 (2.0)
Cable	None
Connector	N-Type Female
Lightning Protection	Lightning Arrestor LABH350NN (Sold Separately)
Mounting	Mounting Kit Included Max Mast Diameter - 63.5mm / 2.5"

ENVIRONMENTAL SPECIFICATION

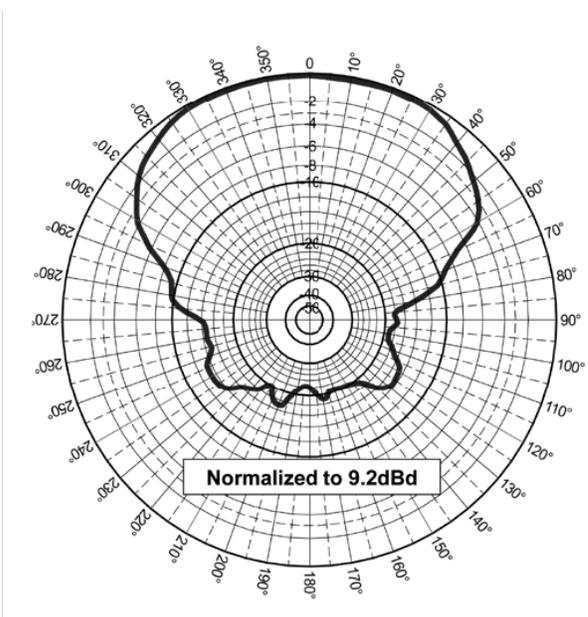
Operating Temp. °C (°F)	-30° to +85° (-22° to +185°)
Storage Temperature °C (°F)	-30° to +85° (-22° to +185°)
Material Substance Compliance	RoHS Compliant CE & UKCA Compliant

RADIATION PATTERNS

Vertical-to-Vertical Polarization Azimuthal Pattern (Y, Z, or E-plane)

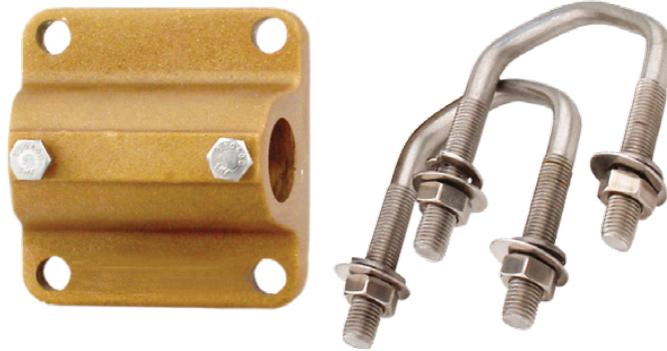


Horizontal-to-Horizontal Polarization Azimuthal Pattern (Y, Z, or H-plane)



MOUNTING KIT

Heavy-Duty Mounting Kit Included



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