

Y(B)80612

Directional Yagi Antennas 806-896 MHz

Laird Connectivity's premium series directional Yagi antennas are fully gold anodized for corrosion resistance. All UHF and above frequency antennas feature internal matching to assure broad bandwidth and resistance to severe weather conditions. There is no gamma match to ice up, corrode, or detune. Our engineering staff has optimized the product family for forward gain by computer analysis and then field-tested each for conformance.

FEATURES AND BENEFITS

- All UHF and higher frequency antennas feature 360° welds around each element and an end-of-boom N connector feed with an internal transmission line feeding the driven element
- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR
- All Yagi antennas ship complete with a high-quality cast aluminum mounting kit that includes stainless steel hardware and allows vertical or horizontal orientation during installation

APPLICATIONS

- Point-to-point and multi-point/ omnidirectional outdoor antennas applications used by private organizations and government agencies around the globe
- Typical applications include transportation such as railroad switching, remote locations reporting examples that include oil fields, weather conditions and, meter data transmissions for utilities

ELECTRICAL SPECIFICATION

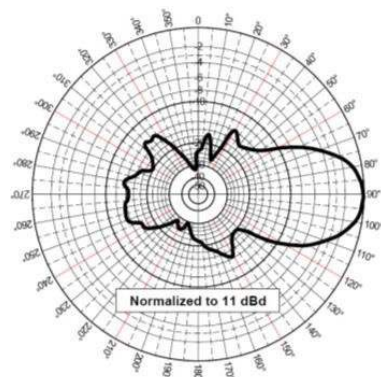
Operating Frequency (MHz)	806-896
Gain (dBd)	11
Tune Capability	Fixed tune
Center Frequency (MHz)	851.00
Bandwidth @ VSWR < 1.5:1	806-896
Bandwidth @ VSWR < 2.0:1	801-911
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	300
Polarization	Align source and destination to same polarization (horizontal or vertical)
Front-to-Back Ratio (dB)	20

MECHANICAL SPECIFICATION

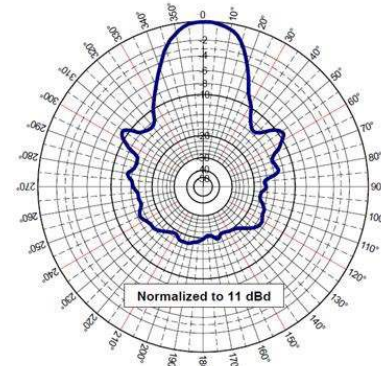
Dimensions - L x W x H- cm (in.)	124.14 x 20.64 x 2.22 (48-7/8 x 8-1/8 x 0.875)
Ground Plane	None
Number of Elements	12
Termination	N-female
Assembly	Fully welded
Mounting	Up to 2.5-inch mast
Hardware	Stainless steel
Lightning Protection	DC grounded
Rated Wind Velocity - km/h (mph)	Not tested

CONFIGURATION

PART NUMBER	FREQUENCY RANGE	COLOR
Y80612	806-896 MHz	Gold
YB80612	806-896 MHz	Black



Vertical-to-Vertical Polarization
Azimuthal Pattern (X, Y or E-Plane)



Horizontal-to-Horizontal Polarization
Elevation Pattern (Y, Z or H-Plane)

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