





Laird Connectivity premium series directional Yagi antennas are available in either fully gold anodized or black powder coat for long life and high corrosion resistance. These 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

- These antennas feature 360° welds around each element and an end-of-boom N connector feed with an internal transmission line feeding the driven element.
- Each Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a highquality cast aluminum mounting kit that includes stainless-steel hardware and allows vertical or horizontal orientation during installation (VHF models require light assembly)

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 SPECIFICATIONS		
Model Name	Y(B)8066	
Operating Frequency (MHz)	806-896	
Frequency Bandwidth (MHz)	90	
VSWR	<2.0:1	
Return Loss (dB)	-10 max	
Gain (dBd)	9.0	
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	300	
Polarization	Vertical or horizontal	
Pattern	Directional	
Vertical Plane 3 dB Beamwidth	52°	
Horizontal Plane 3 dB Beamwidth	56°	
Tuning	Fixed	
Transmitting/Receiving	Both	
Front-to-Back Ratio (dB)	20	
Gamma Match Type	Internally matched	
Element Construction	Welded	
Bracket Included	Included	

MECHANICAL SPECIFICATIONS			
Dimensions – L x H – cm (inches)	70.33 x 18.41 (27.69 x 7.25)		
Weight – kg (lbs.)	1.77 (3.9)		
Mounting	Up to 2.5-inch diameter mast		
Cable Type	None		
Material	Aluminum		
Equivalent Flat Area – sq. ft.	0.2505		
Termination	N-female connector		
Color	Gold or black Lightning Arrestor		
Lightning Protection	Gold or black Lightning Arrestor LABH350NN (Sold Separately		

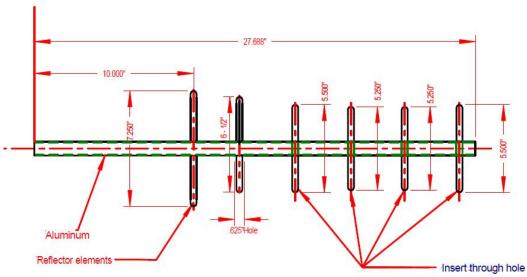
ENVIRONMENTAL SPECIFICATIONS	
Rated Wind Velocity – km/hr (mph)	241 (150)
Rated Wind Velocity w/ 0.5: radial ice - km/hr (mph)	130 (80)

CONFIGURATION

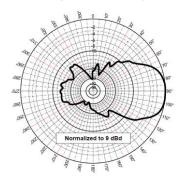
PART NUMBER	FREQUENCY RANGE	COLOR
Y8066	806-896 MHz	Gold
YB8066	806-896 MHz	Black



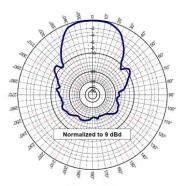
MECHANICAL DRAWING



RADIATION PATTERNS

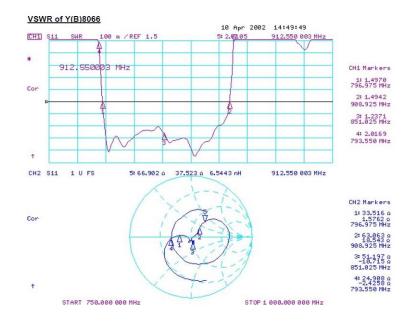


Vertical-to-Vertical Polarization zimuthal Pattern (X, Y or E-Plane)



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

VSWR



Y8066 Typical VSWR sweeps – Primary Specifications Marker 1: 1.4970 to 1 @ 796.975 MHz Marker 2: 1.4942 to 1 @ 908.925 MHz Marker 3: 1.2371 to 1 @ 851.025 MHz Y8066 Typical VSWR sweeps – Secondary Specifications Marker 4: 2.0 to 1 @ 793.550 MHz

Marker 5: 2.0 to 1 @ 912.550 MHz 4/10/2002



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