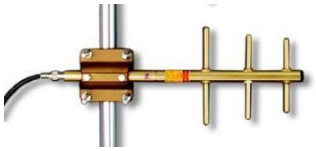
Y(B)8963

Directional Yagi Antennas
896-970 MHz



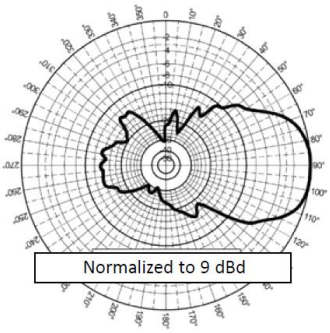
Laird Connectivity premium series directional Yagi antennas are either fully gold anodized or black powdercoat for long life and high corrosion resistance. These antennas feature internal matching to assure broad bandwidth and resistance to severe weather conditions. There is no gamma match to ice up, corrode, or detune. Our engineering staff optimized this product family for forward gain by computer analysis and then field-tested each for conformance.

FEATURES AND BENEFITS

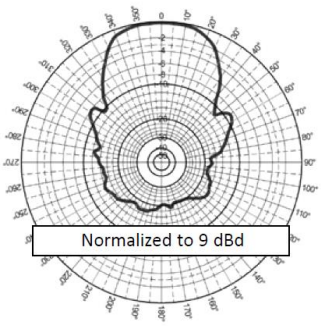
- All UHF and higher frequency antennas feature 360° welds around each element and an end-of-boom N connector feed with an internal transmission line feeding the driven element.
- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a 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 antenna applications used by private organizations and government agencies around the globe
- Transportation such as railroad switching
- Remote locations such as oil fields
- Weather conditions
- Meter data transmissions for utilities



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



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

ELECTRICAL SPECIFICATIONS	
Model Name	Y(B)8963
Operating Frequency (MHz)	896-970
VSWR	<2:1
Nominal Gain (dBd)	6
Front-to-Back Ratio (dBd)	20
Max Power - Ambient 25°C (W)	300
Nominal Impedance (Ohms)	50
Polarization	Vertical or horizontal
Pattern	Directional
Horizontal Plane 3 dB Beamwidth	56°
Vertical Plane 3 dB Beamwidth	52°
Tuning	Fixed
Transmitting/Receiving	Both
Gamma Match Type	Internally matched
Element Construction	Welded
Bracket Included	Included

MECHANICAL SPECIFICATIONS	
Dimensions – L x H – cm (inches)	42.54 x 18.1 (16.75 x 7.13)
Boom Diameter – cm (inches)	26.68 (0.875)
Weight – kg (lbs.)	1.77 (3.9)
Cable Type	None
Connector	Fixed N-female
Color	Gold or black
Lightning Protection	Lightning arrestor (LABH350NN – sold separately)
Mounting (included)	YM78HD Heavy duty cast aluminum bracket fits up to 2.5” mast

ENVIRONMENTAL SPECIFICATIONS	
Rated Wind Velocity – km/hr (mph)	241 (150)
Rated Wind Velocity (with 0.5” radial ice) – km/hr (mph)	130 (80)
Equivalent Flat Area – sq. km (sq. ft.)	2.3151 (0.2492)

CONFIGURATION

PART NUMBER	FREQUENCY RANGE	COLOR
Y8963	896-970 MHz	Gold
YB8963	896-970 MHz	Black

RoHS

sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com