YF88008

Directional Yagi Antenna
880-960 MHz

U.S. Patent 10,116,063

Laird's premium series directional Yagi antennas (U.S. Patent 10,116,063) are either fully gold or fully black, 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. We 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.
- The antenna has an ingress protection rating of IP67.

APPLICATIONS

- Point-to-point and multi-point/directional 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 Number	YF88008
Operating Frequency (MHz)	880-960
Peak Gain (dBi) – Typ	8.1
Peak Gain (dBi) – Max	8.6
VSWR – Max	<1.5:1
Nominal Impedance (Ohms)	50
Polarization	Vertical
Vertical Plane 3 dB Beamwidth	63°
Horizontal Plane 3 dB Beamwidth	90°
Front-to-Back Ratio (dB)	20
Max Power - Ambient 25°C (W)	200

MECHANICAL SPECIFICATIONS	
Dimensions (L x W x T) – mm (in.)	305 x 165 x 79 (12.0 x 6.50 x 3.11)
Weight – kg (lbs.)	0.42 (0.92) 1.11 (2.44) – with brackets
Connector	Type N female

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Wind Operational – km/hr (mph)	160 (100)
Wind Survival – km/hr (mph)	220 (136)
Ingression Protection	IP67
Material Substance Compliance	RoHS

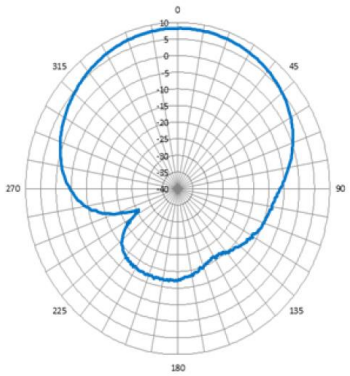
CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
YF88008-30NF	30 cm (12 in.)	Type N-female
YF88008-61NF	61 cm (24 in.)	Type N-female
YF88008B-61NF (bulk)	61 cm (24 in.)	Type N-female

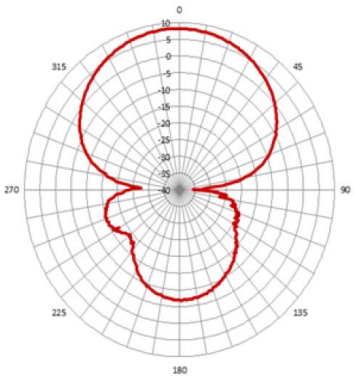
RADIATION PATTERNS

890 MHz

Azimuth

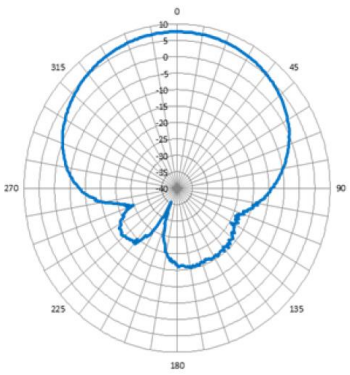


Elevation



925 MHz

Azimuth



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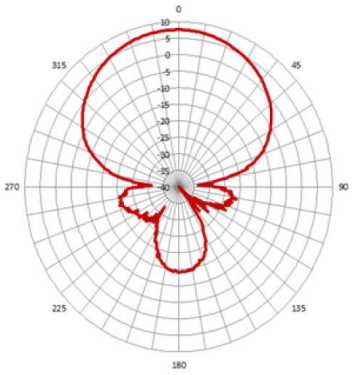
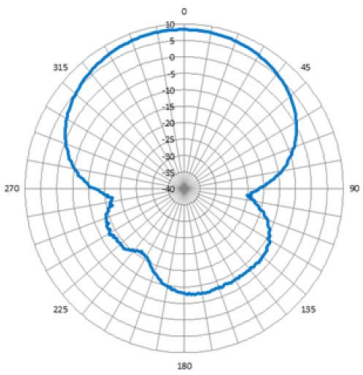
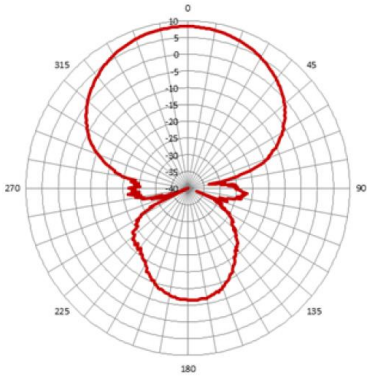


960 MHz

Azimuth



Elevation



RoHS

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