



Smart Technology. Delivered.

DIRECTIONAL YAGI ANTENNAS

YF880012

DIRECTIONAL 12 dBi YAGI ANTENNA

Laird's patent pending premium series directional Yagi antennas 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. Our engineering staff has optimized the product family for forward gain by computer analysis and then field-tested each for conformance.

FEATURES AND BENEFITS:

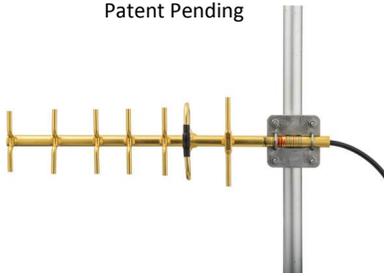
- All UHF and higher frequency antennas feature 360° welds around each element and an end-of-boom N connector feed with an internal transmission line feeding the driven element.
- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a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



Patent Pending



PARAMETER	SPECIFICATIONS
Model Number	YF880012-61NF
Frequency Range	880 – 960 MHz
Peak Gain, dBi (Max)	12.2
VSWR, Max	< 1.5:1
Nominal Impedance	50Ω
Polarization	Linear
Azimuth 3 dB Beamwidth	54°
Elevation 3 dB Beamwidth	47°
Front-to-Back Ratio	20 dB
Max Power (Ambient 25°C)	200 Watts
Antenna Dimension (LxWxT)	610 x 168 x 79 mm (24.0" x 6.61" x 3.11")
Cable Type, Exposed Length	RG213, 48.8 cm (19.2 in)
Connector	Type N, female
Weight	0.68 kg (1.5 lbs); w/brackets 1.37 kg (3.02 lbs)
Wind Operational	160 km/h (100 mph)
Wind Survival	220 km/h (136 mph)
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +85°C
Ingression Protection	IP67

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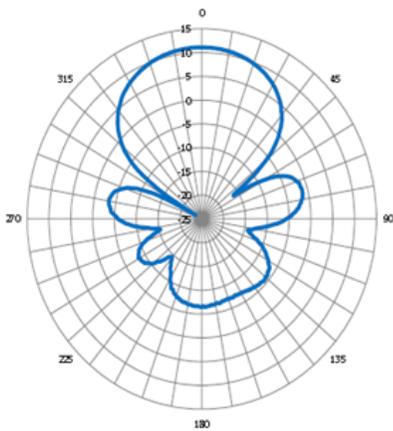
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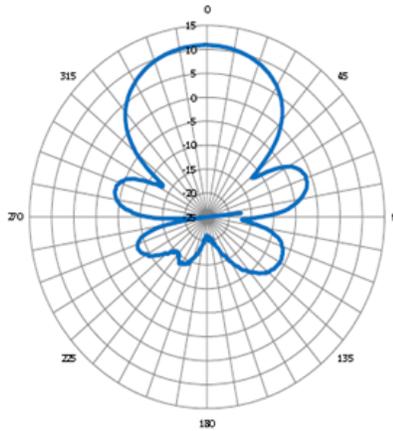
RADIATION PATTERNS

AZIMUTH PATTERNS

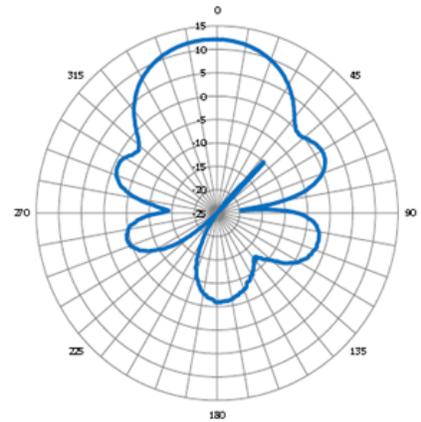
890 MHz



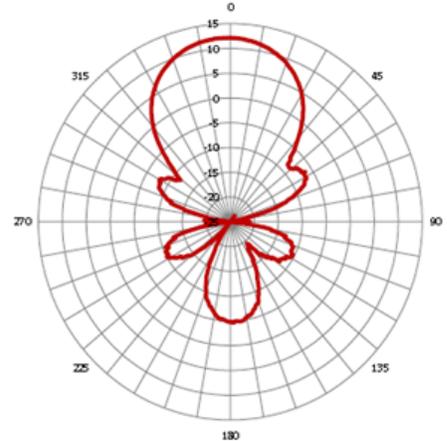
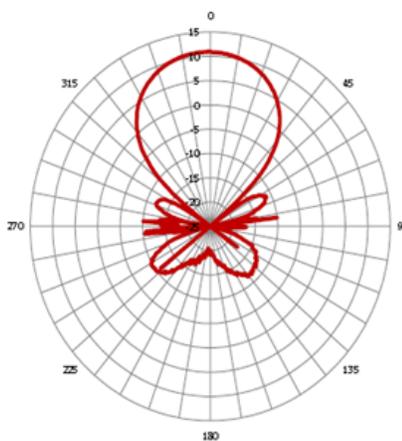
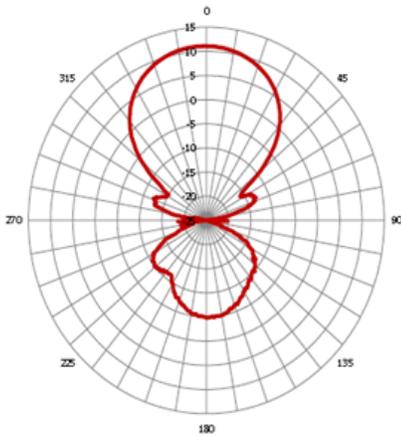
925 MHz



960 MHz



ELEVATION PATTERNS



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