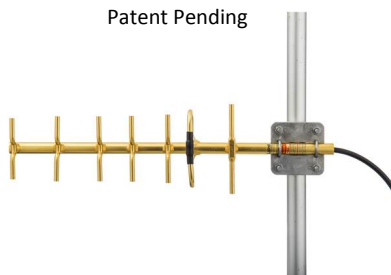


# DIRECTIONAL YAGI ANTENNAS

## YF880012



Patent Pending



### 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.

| 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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Smart Technology. Delivered.

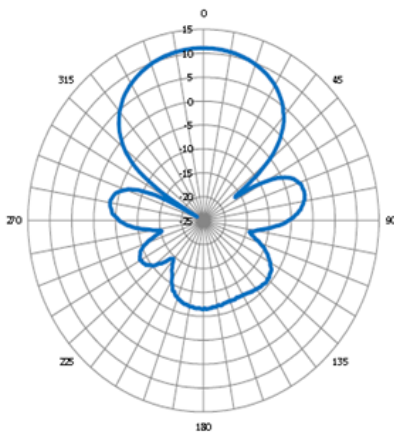
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### YF880012

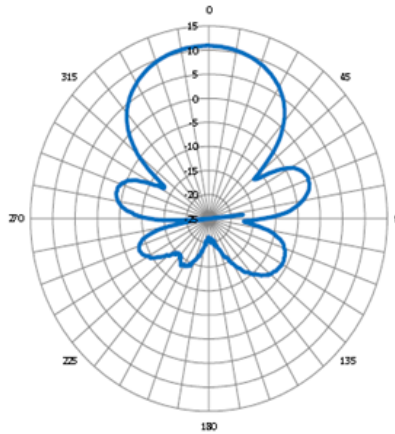
### RADIATION PATTERNS

#### AZIMUTH PATTERNS

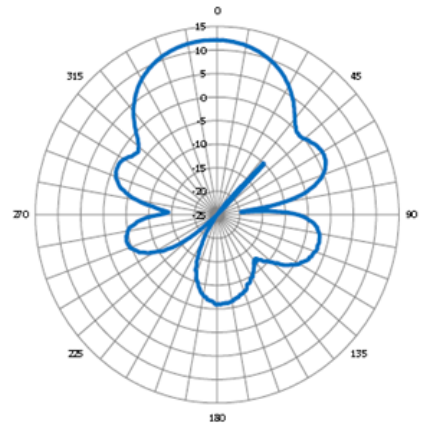
890 MHz



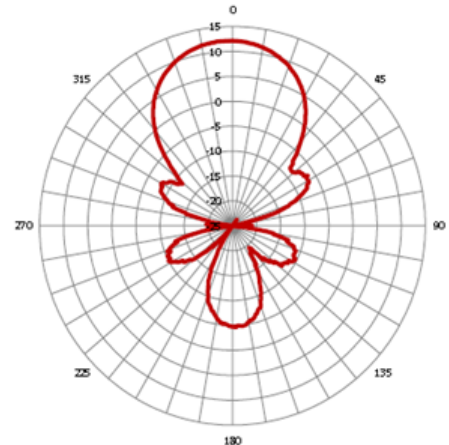
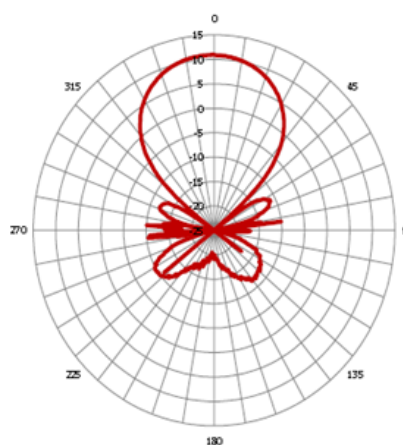
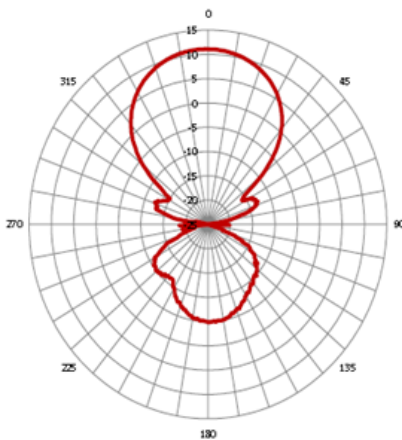
925 MHz



960 MHz



#### ELEVATION PATTERNS



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