

860 TO 960 MHz NLOS ALUMINUM YAGI ANTENNA

The YA9W NLOS series antenna system offered by Laird is constructed of aluminum for minimal weight and great service life. Individual elements are swaged to the main beam and then riveted for permanent attachment. Riveted elements give more consistent signal performance because they ensure high conductivity across the antenna surface. These antennas have high gain and good front to back performance to minimize external interference. They can be mounted in vertical or horizontal polarization. They come standard with an 18 inch pigtail cable terminated with an N female connector. Other connector types are available upon request.

FEATURES

- Wide band
- High gain directional antenna
- Available in 11 and 13 dBi gain models
- Light weight aluminum construction, low wind loading
- Simple installation - vertical or horizontal polarization
- 18 inch Pigtail with type N female connector standard
- DC ground for lightning protection

MARKETS

- 900 MHz ISM band applications
- Non line-of-sight applications
- WISP CPE equipment
- Cellular applications
- WiMAX

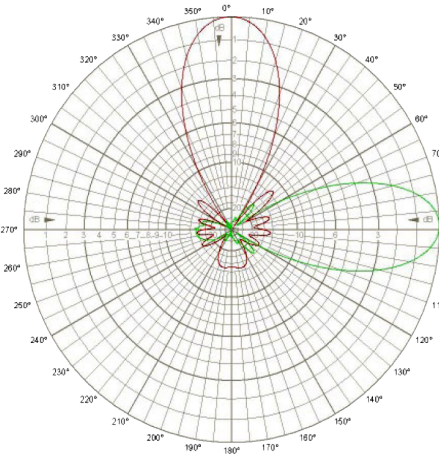
SPECIFICATIONS

PARAMETER	YA9W-11	YA9W-13
Frequency range	860 - 960 MHz	860 - 960 MHz
VSWR	1.5:1	1.5:1
Impedance	50 ohm	50 ohm
Input power	100 watts	100 watts
Pole size	1 to 2 in (25 to 51 mm)	1 to 2 in (25 to 51 mm)
Operating temperature	-45° to +70°C	-45° to +70°C
Rated wind velocity	125 mph (56 m/sec)	125 mph (56 m/sec)
Gain	11 dB	13 dB
Number of elements	10	13
Beamwidth	45°	35°
Front to back	> 15 dB	> 15 dB
Weight	1.2 lbs (0.53 kg)	1.3 lbs (0.58 kg)
Length dimension element width ~6" (152 mm)	33.5 in (0.85 m)	46 in (1.2 m)

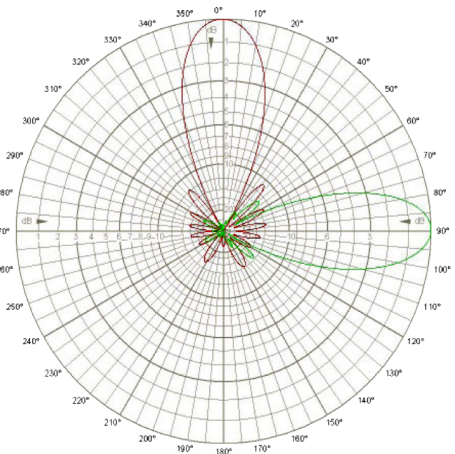
WIND LOADING (LBS.)

MODEL	SQ. IN	100 MPH	125 MPH	100 MPH WITH ½ INCH RADIAL ICE
YA9W-11	31	7.75 lbs	12.1 lbs	16.8 lbs
YA9W-13	45	11.3 lbs	17.6 lbs	22.5 lbs

ANTENNA PATTERNS



YA9W-11 at 960 MHz



YA9W-13 at 960 MHz

SYSTEM ORDERING

- YA9W-11 11 dB NLOS series 900 MHz Yagi antenna with N female connector
- YA9W-13 13 dB NLOS series 900 MHz Yagi antenna with N female connector

NOTES

- All shipments F.O.B. Schaumburg, IL 60173

ANT-DS-YA9W 0915

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