

# VERTICALLY POLARIZED BROADBAND OMNI ANTENNAS

## OP58509



### 5850-6000 MHz VERTICALLY POLARIZED OMNIDIRECTIONAL ANTENNA

The Laird OP58509 broadband omnidirectional antenna has a UV-stable fiberglass radome and is IP67 rated for dust and water intrusion providing excellent durability, reliability and performance. The OP58509 is available with a 914 mm (3') RG58 Low Temperature Rated Plenum cable with Type N-male connector. The vertical pattern is a full 360 degrees with 9.1 dBi gain to improve high-speed broadband system performance in a highly rugged and durable package for both indoor and outdoor applications.

#### FEATURES

- 9.1 dBi antenna gain.
- Type N male connector with 914 mm (3') RG58 Low Temperature Rated Plenum cable.
- IP67 Rated, lightweight design for indoor & outdoor use.
- UV Stable polycarbonate radome.
- All stainless steel bracket for better corrosion protection.
- Performance engineered for optimum high speed broadband performance.

#### MARKETS - APPLICATIONS

- Wireless broadband systems
- DSRC (Dedicated Short Range Communications)
- ITS (Intelligent Transportation Systems)
- Point-to-multi-point systems
- WLAN access points

PARAMETER	SPECIFICATIONS
Model	OP58509-91NM
Frequency Bands, MHz	5850-6000 MHz
Peak Gain, dBi (Typ)	8.8 dBi
Peak Gain, dBi (Max)	9.1 dBi
VSWR, Max	<2.0:1
Nominal Impedance	50Ω
Polarization	Vertical
Azimuth 3 dB Beamwidth	360°
Azimuth 3 dB Beamwidth	12°
Max Power (Ambient 25°)	25 Watts
Antenna Dimension (H X Dia)	311.7 x 21.2 mm (12.3" x 0.83")
Weight	163 g (0.36 lbs) w/o Mounting Kit
Exposed Cable Length	914.4 mm (3 ft.)
Mounting	Mast Mount
Antenna Color	White
Radome	Polycarbonate, UV
Wind Operational	193 km/h (120 mph)
Wind Survival	220 km/h (136 mph)
Operating Temperature	-30° to + 70°C (-22° to + 158°F )
Storage Temperature	-40° to + 85°C (-40° to + 185°F )
Ingression Protection	IP67
Material Substance Compliance	RoHS

#### CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
OP58509-91NM	91 cm (3 ft)	Type N-male

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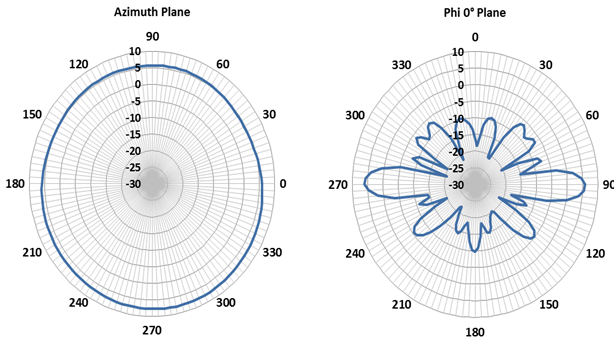


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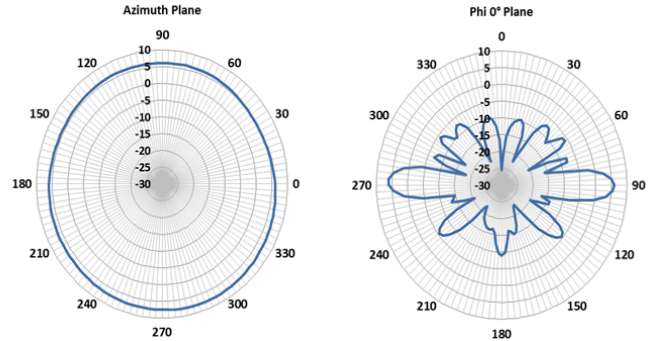
## OP58509

### RADIATION PATTERNS

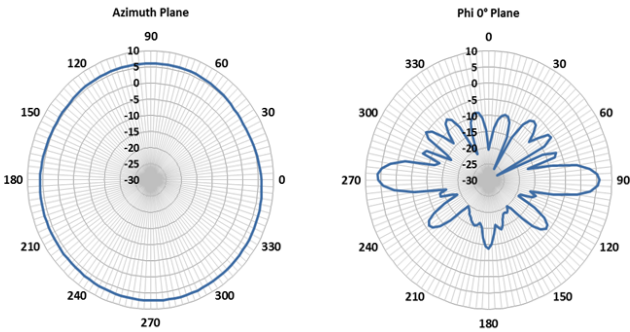
**5850 MHz**



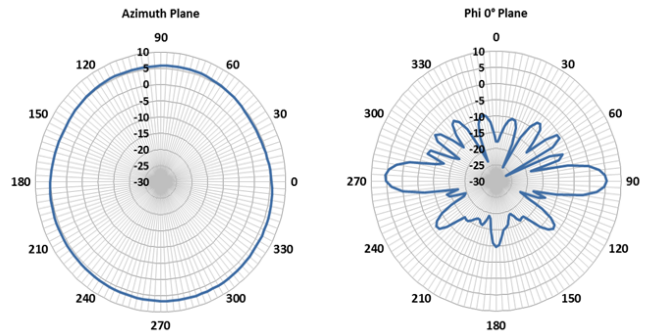
**5900 MHz**



**5950 MHz**



**6000 MHz**



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