



The 5 GHz omnidirectional antenna systems offered by Laird are constructed of UV-stable fiberglass with all stainless-steel brackets standard. They have type N female bulkhead connectors. N male connectors also available for mounting directly to equipment. The horizontal pattern is a full 360 degrees with gain flatness better than 2 dB. The antennas are vented at the base to prevent any moisture build-up inside. Antennas are DC grounded for lightning protection.

FEATURES AND BENEFITS

- 12 dBi antenna gain
- Type N female integrated bulkhead connector
- Rugged, lightweight, and waterproof
- Also available with N male connector
- All stainless-steel bracket for better corrosion protection
- Extra wide strap and larger diameter base for better stability
- Extended connector shroud and extended length N connector for easier/more reliable weatherproofing

APPLICATIONS

- 5.4 to 5.8 GHz ISM band applications
- Base station antennas
- 802.11a wireless systems
- Point-to-multi-point systems
- Wireless broadband systems
- WLAN access points
- Mesh networks
- WiMax

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	5470-5850
VSWR	1.5:1
Gain (dBi)	12
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Vertical Plane 3 dB Beamwidth	7°
Horizontal Plane 3dB Beamwidth	360°

MECHANICAL SPECIFICATIONS

Pole Diameter (OD) – mm (in.)	25.0-51.0 (1.0-2.0)
Dimensions – diameter x height – mm (inches)	20 x 25-51 (0.8 x 1-2)
Weight – kg (lbs.)	0.5 (1.1)
Lightning Protection	DC Grounded

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-40 to +70°C (-40 to +158°F)
Wind Velocity – m/sec (mph)	56 (125)
Wind Loading – km/hr (mph)	8.75lb @ 160.9 (100), 13.7lb @ 201 (125)
Material Substance Compliance	RoHs compliant

CONFIGURATION

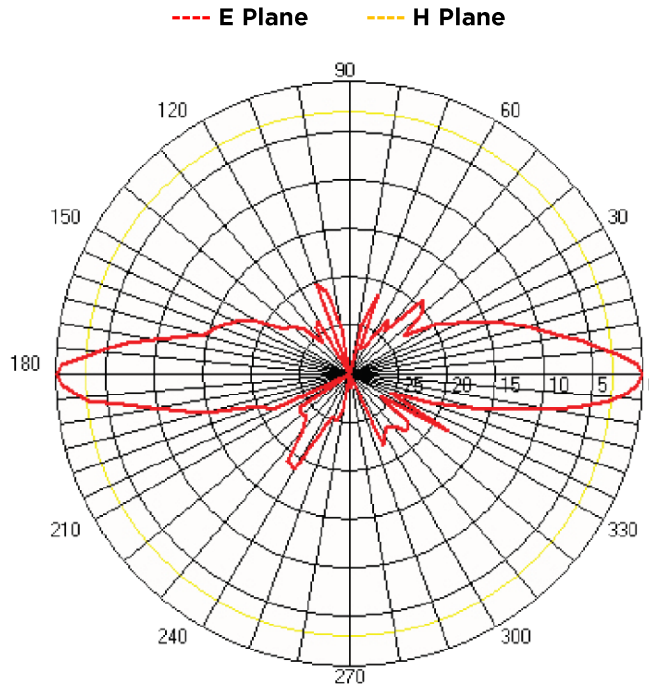
PART NUMBER	DESCRIPTION
OD58-12	12 dBi 5740-5850 MHz wide-band omnidirectional antenna
OD58M-12	12 dBi 5740-5850 MHz wide-band omnidirectional antenna with N-male connector

MOUNTING OPTIONS



Figure 1: Mast Mount

RADIATION PATTERNS



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