



## OD9 0121

### OD9 SERIES NLOS SERIES OMNIDIRECTIONAL ANTENNAS 860-960 MHz

The NLOS series omnidirectional antenna system offered by Laird Technologies are constructed of UV stabilized fiberglass and stainless steel for long service life. Mounting is easy with a dual u-bolt mounting system. The antennas are vertically polarized and are DC grounded for lightning protection. The 6 dBi and 8 dBi come standard with 18 inch pigtails terminated in an N female connector. The 5 dBi and 11 dBi come standard with an integrated N Female connector. The 11 dBi is available with 1° electrical downtilt which provides null fill and improved close-in coverage.

#### FEATURES AND BENEFITS

- 900 MHz omnidirectional antenna
- Available in 5, 6, 8 and 11 dBi gain models
- 1° electrical downtilt available on the 11 dBi model
- Mounting hardware included
- UV stabilized fiberglass / stainless steel construction
- 18 in pigtail with type N female connector standard (6 dBi and 8 dBi models only)

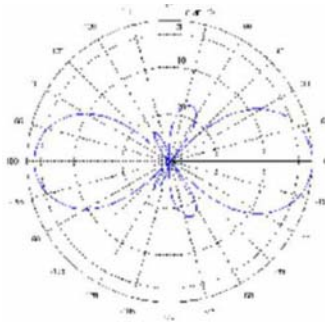
ELECTRICAL SPECIFICATIONS	OD9-5	OD9-6	OD9-8	OD9-11	OD9-11D1
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Impedance (Ohms)	50	50	50	50	50
Input Power (W)	100	100	100	100	100
Outer diameter mm (Inch)	25-51 (1-2)	25-51 (1- 2)	25-51 (1- 2)	25-51 (1- 2)	25-51 (1- 2)
Operating temperature (°C)	-45 to 70	-45 to 70	-45 to 70	-45 to 70	-45 to 70
Rated wind velocity mph (m/s)	125 (56)	125 (56)	125 (56)	125 (56)	125 (56)
Gain (dBi)	5	6	8	11	11
VSWR 1.5:1 bandwidth (MHz)	890-950	865-945	865-945	860-960	860-960
VSWR 2.0:1 bandwidth (MHz)	-	860-960	860-960	-	-
Vertical 3dB beamwidth (°)	36	16	10	7	7
Electrical downtilt	0	0	0	0	1

MECHANICAL SPECIFICATION	OD9-5	OD9-6	OD9-8	OD9-11	OD9-11D1
Dimensions - D x H - mm (inches)	38 x 610 (1.5 x 25.19)	38 x 1700 (1.5 x 66.93)	38 x 2600 (1.5 x 102.36)	38 x 3400 (1.5 x 133.86)	38 x 3400 (1.5 x 133.86)
Radome Material	UV Stabilized Fiberglass				

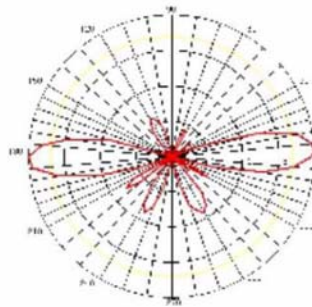
## CONFIGURATION

PART NUMBER	DESCRIPTION	CABLE LENGTH	CONNECTOR
OD9-5	5 dBi Slimline NLOS Series 900 MHz Omni Antenna	N/A	N-Female bulkhead connector
OD9-6	6 dBi NLOS Series 900 MHz Omni Antenna	45.72 cm (18 in.)	N-Female connector
OD9-8	8 dBi NLOS Series 900 MHz Omni Antenna	45.72 cm (18 in.)	N-Female connector
OD9-11	11 dBi NLOS series 900 MHz Omni Antenna	N/A	N-Female connector
OD9-11D1	11 dBi 1° elec downtilt NLOS series 900 MHz omni antenna	N/A	N-Female connector

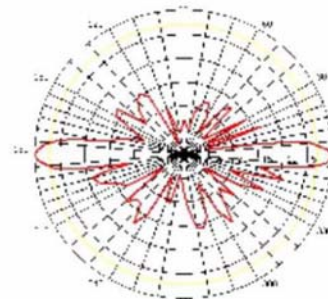
## RADIATION PATTERNS



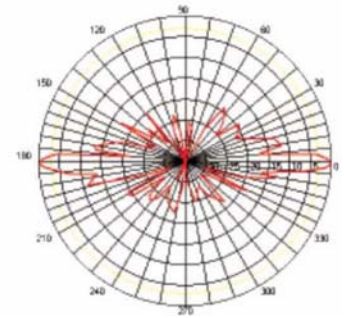
**OD9-5**



**OD9-6**



**OD9-8**



**OD9-11D1**

### TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

### te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

©2021 TE Connectivity. All Rights Reserved.

12/21 Original

