

3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, ±45 Slant Polarization



HG358DP4-NF

Features

- 4 x 4 MIMO – Multiple-Input and Multiple-Output
- Four ±45 slant polarization ports with integral N-female connectors in a single enclosure
- UV-resistant radome and rugged mounting hardware for all-weather operation
- 0° fixed electrical downtilt

Applications

- 3.5 GHz Citizens Broadband Radio Service (CBRS) applications
- Wireless LAN systems & IEEE 802.16e applications
- Mobile WiMAX Wireless Internet Provider “cell” sites
- SOFDMA
- Point-to-multipoint (PtMP) requiring 360 degree of horizontal coverage

Description

Superior Performance: The L-COM Brand HG358DP4-NF OMNI Antenna combines four ports with dual ±45 slant polarization, high 8.5 dBi gain with a 360 degree beamwidth in a single enclosure with one mounting point. It is a professional quality antenna designed primarily for 4x4 or 2x2 MIMO point-to-point or point-to-multipoint applications in the 3.5 GHz Citizens Broadband Radio Service (CBRS) frequency band. This antenna incorporates advanced low PIM, dual polarization technology that allows for the interoperability of one 4x4 radio or two 2x2 radios with multiple transmit and receive path. The small 28” OMNI limits the wireless infrastructure footprint and provides 360 degree coverage around the tower. This antenna supports LTE deployments in the CBRS 3.5 - 3.8 GHz spectrum.

Rugged and Weatherproof: The 4-port OMNI antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The heavy-duty, powder-coated mounting brackets allows installation with pipe diameter from 1.6” to 3.5”. This CBRS OMNI antenna is built to withstand speeds of up to 130 mph and survive in a wide-range of challenging environments.

Configuration

Design	Omni
Application Band	CBRS
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	45 Deg. Slant
Connector Type	N Female
Number of Ports	4

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.5		3.8	GHz
Input VSWR		1.5:1	1.7:1	
Impedance		50		Ohms
Gain		8.5		dBi
Electrical Downtilt		0		Degrees
Cross Polarization Ratio	10			dB
Port to Port Isolation		25		dB
Horizontal (Azimuth) HPBW		Omnidirectional		

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
[3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, ±45 Slant Polarization HG358DP4-NF](#)

3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, ±45 Slant Polarization



HG358DP4-NF

Vertical (Elevation) HPBW	11		Degrees
Input Power		100	Watts

Mechanical Specifications

Radome Material	UV protected PVC
Size	
Radome Diameter	6.3 in [160.02 mm]
Length	27.8 in [706.12 mm]
Width	6.3 in [160.02 mm]
Mounting Mast Diameter	1.6 to 3.5 in [40.64 to 88.90 mm]
Weight	12 lbs [5.44 kg]
Mechanical Specification Notes:	
Radome material is UV-resistant PVC.	

Environmental Specifications

Temperature	
Operating Range	-40 to +140 deg C
Wind Survivability	130 MPH [209.21 KPH]
Wind Loading	25 lbs at 130 mph

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

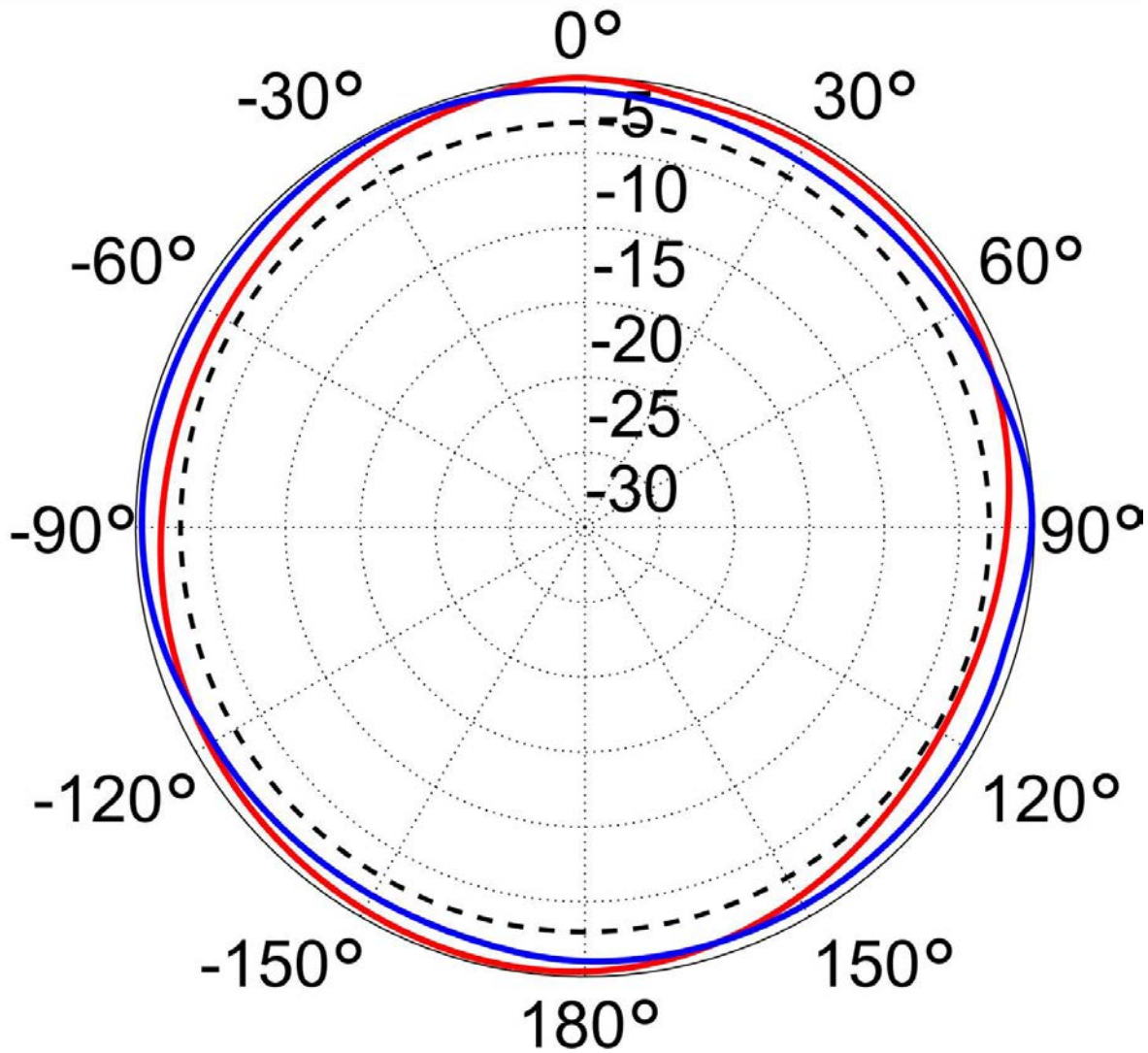
Notes:

3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, ±45 Slant Polarization



HG358DP4-NF

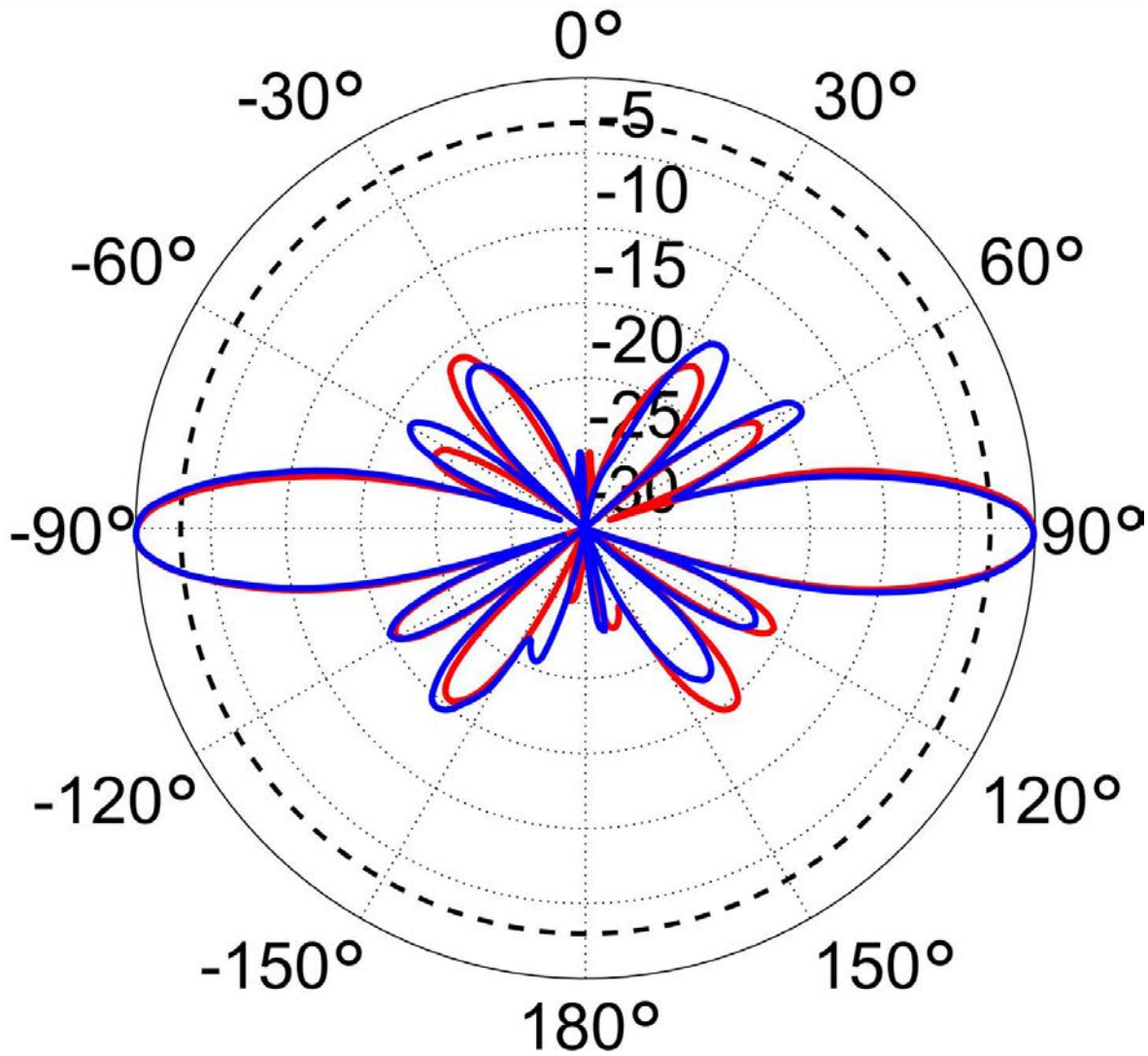
Typical Radiation Pattern



3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, $\pm 45^\circ$ Slant Polarization



HG358DP4-NF



3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, $\pm 45^\circ$ Slant Polarization from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge

3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, ±45 Slant Polarization

HG358DP4-NF



protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

3.5-3.8GHz, OMNI Antenna, 8.5 dBi, 4-Port, ±45 Slant Polarization

L-com CAD Drawing

