

20 dBi Parabolic Antenna 3,500-3,800 MHz N Type Connector

HG3538DP-20D



Features

- 20 dBi gain with 1ft dish
- 2 x 2 MIMO dual polarization +/-90deg
- Rugged design with heavy-duty brackets and thick powder coating for industrial and corrosive applications
- Comes with 36" LMR 200 Pigtailed and N-type Female Connectors
- Low side lobes and high front to back
- Compact shipping size

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
- Outdoor or indoor point-to-point (PtP) requiring high gain

Description

Superior Performance The L-COM Brand HG3538DP-20D is 1-foot Parabolic Antenna that combines two ports with dual horizontal and vertical polarization and provides high 20 dBi gain with a 18 degree beamwidth. It is a rugged and professional quality antenna that includes 36" LMR 200 pig-tail cables with N-female connectors. This parabolic antenna is designed primarily for 2x2 MIMO point-to-point or point-to-multipoint applications in the 3.5 GHz Citizens Broadband Radio Service (CBRS) frequency band. The small 14" x 14" x 14" parabolic antenna provides high gain with low side lobes and high front to back ratio for stable PtP links. This antenna supports LTE deployments in the CBRS 3.5 - 3.8 GHz spectrum.

Rugged and Weatherproof The 1-foot parabolic antenna features an industrial-grade, powder-coated reflector, feed horn, and mounting brackets which allow 15 degree of elevation mechanical tilt. and allows pipe-mount installation pipe diameter from 1.2" to 2.5". This CBRS parabolic antenna is built to withstand speeds of up to 130 mph and survive in a wide range of challenging environments.

Configuration

Design	Parabolic
Application Band	CBRS
Band Type	Single
Radiation Pattern	Directional
Polarization	Vertical/Horizontal
Cable Type	LMR 200
Connector Type	N Female
Number of Ports	2

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		20		dBi
Front to Back Ratio		25		dB
Electrical Downtilt		0		Degrees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[20 dBi Parabolic Antenna 3,500-3,800 MHz N Type Connector HG3538DP-20D](#)

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Cross Polarization Ratio	25		dB
Horizontal (Azimuth) HPBW	18		Degrees
Vertical (Elevation) HPBW	17		Degrees
Input Power		50	Watts

Electrical Specification Notes:
Max input power is 50W per port.

Mechanical Specifications

Width	14 in [355.6 mm]
Height	14 in [355.6 mm]
Mounting Mast Diameter	1.2 to 2.5 in [30.48 to 63.50 mm]
Weight	12 lbs [5.44 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	125 MPH [201.17 KPH]

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

Plotted and Other Data

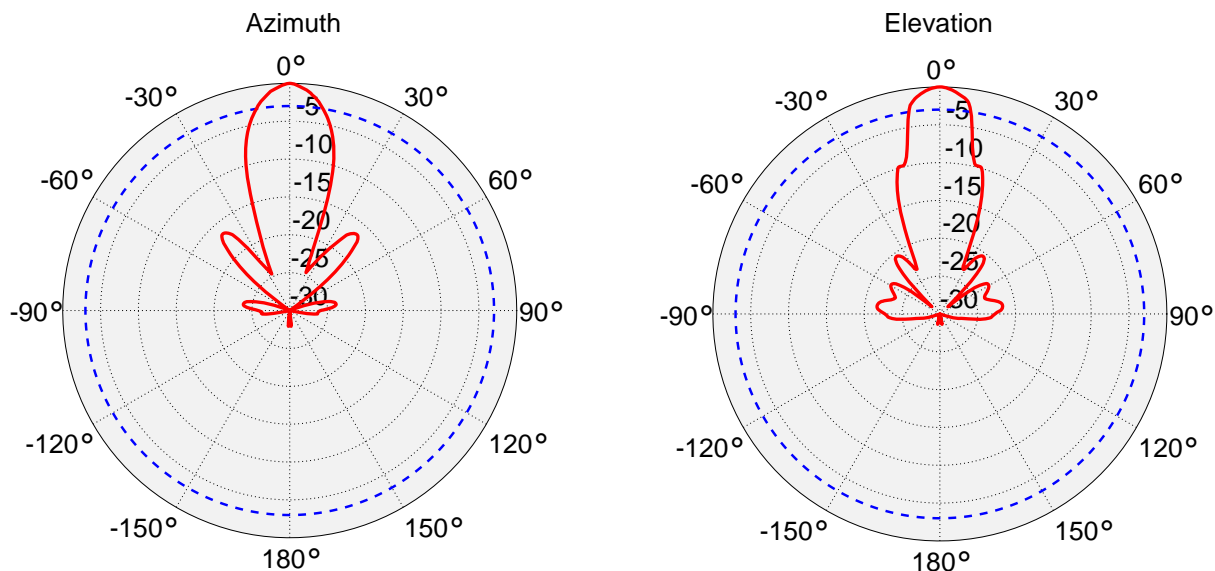
Notes:

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Typical Radiation Pattern



20 dBi Parabolic Antenna 3,500-3,800 MHz N Type Connector 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 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.

L-com CAD Drawing

