4950 MHz to 7125 MHz, 2-foot Parabolic Antenna, 2x2 MIMO, 30 dBi, NF, 2 Pack

HG4971DP-30D-NF

Features

- 2-Foot standard parabolic antenna
- 4950 to 7125 MHz, 30 dBi
- VSWR < 2.5:1
- All aluminum dish
- Dual slant (V/H or ±45°)
- 50 W max input power per port
- 2 x N female connectors
- DC ground

Applications

- Long distance backhaul
- Point to point data links (PtP)
- Point to multi-point data links (PtMP)
- Wi-Fi 5, Wi-FI 6, Wi-Fi 6E and Wi-Fi 7
- Unlicensed 5GHz and 6GHz bands
- 5G bands - n46, n47, n96, n102, n104
- 2x2 MIMO capability
- High speed internet access

Description

The L-com HG4971DP-30D-NF parabolic antenna is for point to point communications that uses a parabolic reflector to direct the waves to the receiver in its focal point. It has a frequency range of 4950 to 7125 MHz, providing stability over a wide bandwidth to support gigabit transmissions and has operating temperature ranging from -40°C to 70°C (-32°F to 158°F). This antenna has a 30 dBi high gain, which describes electrical power conversion capability.

The L-com HG4971DP-30D-NF parabolic antenna has an N-Female connector capable of carrying microwave frequencies used to join coaxial cables. This point to point antenna has a 50 Ohms impedance and is highly directional, which means it receives greater power in a specific direction. This antenna features dual slant (V/H or ±45°) polarization, which makes them compatible with any single or dual polarized 2 x 2 MIMO radio and eliminates the risk of link strength degradation due to polarization mismatch.

The L-com white parabolic antenna is of 2 feet size and has less than 2.5 VSWR (Voltage Standing Wave Ratio) that results in the best power transfer and reduced losses. It has 50 W maximum power per port within which it has the ability to perform without damage. This antenna has dc ground lighting protection to protect the system from damage due to lighting strikes.

This L-com HG4971DP-30D-NF parabolic antenna, 4950 to 7125 MHz, 30 dBi is in stock and ready to ship same-day. This high-performance 30 dBi wifi 6e antenna is ideal for 4.9/5.1/5.3/5.4/5.8/6 GHz ISM and UNII band, Wi-Fi 6e and Wi-Fi 7, and long distance backhaul and point to point data link applications. Based on your specifications, our expert technical support and highly trained sales team can find the ideal 4950 to 7125 MHz, 30 dBi parabolic antenna.

Configuration

Design	Parabolic
Application Band	MIMO
Band Type	Single
Polarization	H/V or 45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,950		7,125	MHz
Input VSWR			2:1	
Impedance		50		Ohms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Front to Back Ratio	35			dB
Horizontal (Azimuth) HPBW		5		Degrees
Vertical (Elevation) HPBW		5		Degrees
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.95 to 5.1	5.1 to 5.9	5.9 to 7.125			GHz
Gain	29	30	31			dBi
VSWR Max	2.5:1	2:1	2:1			

Mechanical Specifications

Radome Material	Aluminum
Size	
Length	23.6 in [599.44 mm]
Width	23.6 in [599.44 mm]
Height	8 in [203.2 mm]
Mounting Mast Diameter	1.1811 to 3.14961 in [30.00 to 80.00 mm]
Weight	13.22 lbs [6 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Radiation Pattern

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

4950 MHz to 7125 MHz, 2-foot Parabolic Antenna, 2x2 MIMO, 30 dBi, NF, 2 Pack 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.

URL: https://www.l-com.com/4950-mhz-7125-mhz-2-foot-parabolic-antenna-2x2-mimo-30-dbi-nf-2-pack-hg4971dp-30d-nf-p.aspx

HG4971DP-30D-NF CAD Drawing

4950 MHz to 7125 MHz, 2-foot Parabolic Antenna, 2x2 MIMO, 30 dBi, NF, 2 Pack