

1710-4200 MHz 20 dBi Gain Mesh Parabolic 2x2 MIMO Dish Antenna - 2 x Type N Female Connector

KP-14DPG-2



Features

- Low Windload Mesh Design
- +/-45 Slant Polarization
- 20 dBi Gain
- 2x2 MIMO
- Type N Female Connector

Applications

- LTE, 5G, CBRS
- Cellular networks
- DAS (Distributed Antenna Systems)
- IEEE 802.11b/g/n WiFi applications

Description

The KP Performance KP-14DPG-2 is a high performance LTE / CBRS Mesh Parabolic Dish antenna specifically designed for cellular networks. KP Performance's KP-14DPG-2 has 20 to 22 dBi gain and can be used to broadcast Cellular LTE signals. The KP-14DPG-2 operates from 1710 to 4200 MHz which is ideal for 5G, LTE, PCS, UMTS, CBRS applications including LoRA, LTE-M, and NB-IOT. The Multi-Band design of the KP Performance KP-14DPG-2 antenna eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of telecommunication applications where wide coverage is desired.

The KP-14DPG-2 from KP Performance has directional patterns with Dual Slant ($\pm 45^\circ$) polarization and features 2 x Type N Female connectors. The Type N connectorized KP-14DPG-2 antenna from KP Performance is designed specifically for outdoor operation and is ideal for point to point use in large open areas such as base station installations or cellular backhaul. The included mounting bracket and hardware makes this antenna very easy to install. This LTE / CBRS Mesh Parabolic Dish antenna just like our wide selection of superior quality RF parts, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other KP Performance products."

Configuration

| | |
|----------------------|---------------------|
| Design | Grid |
| Band Type | Multi |
| Radiation Pattern | Directional |
| Polarization | ± 45 Deg. Slant |
| Connector Type | N Female |
| Lightning Protection | DC Ground |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range | 1,700 | | 4,200 | MHz |
| Impedance | | 50 | | Ohms |
| Gain | | 20 | | dBi |
| Front to Back Ratio | 25 | | | dB |
| Input Power | | | 50 | Watts |

Specifications by Band

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|-----------------|--------------|------------|--------|--------|--------|---------|
| Range | 1.71 to 2.69 | 3.3 to 4.2 | | | | GHz |
| Gain | 20 | 22 | | | | dBi |
| Horizontal HPBW | 15 | 12 | | | | Degrees |
| Vertical HPBW | 15 | 12 | | | | Degrees |
| VSWR Max | 2.5:1 | 2.5:1 | | | | |

Mechanical Specifications

Size

| | |
|------------------------|-------------------------------------|
| Length | 24 in [609.6 mm] |
| Width | 24 in [609.6 mm] |
| Height | 12 in [304.8 mm] |
| Mounting Mast Diameter | 1.18 to 1.96 in [29.97 to 49.78 mm] |
| Weight | 2.2 lbs [997.9 g] |

Environmental Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | -40 to +70 deg C |
| Mechanical Tilt | 20 Degrees |

Plotted and Other Data

Notes:

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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 @ $180^\circ \pm 30^\circ$: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over $\pm 30^\circ$ 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.

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URL: <https://www.kpperformance.com/2300-2700-MHz-17-dBi-Gain-Mesh-Parabolic-2x2-MIMO-Dish-Antenna-2-x-Type-N-Female-Connector-KP-14DPG-2>

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. KP Performance reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. KP Performance does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and KP Performance does not assume liability arising out of the use of any part or document.

KP-14DPG-2 CAD Drawing

