

0.6m | 2ft, Grid Parabolic Reflector Antenna, Dual-Polarized, 1.71 to 4.2 GHz

MPD2-1.7

The RadioWaves MPD2-1.7 is a high performance LTE / CBRS Mesh Parabolic Dish antenna specifically designed for cellular networks. RadioWaves' MPD2-1.7 has 20 to 22 dBi gain and can be used to broadcast Cellular LTE signals. The MPD2-1.7 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 RadioWaves MPD2-1.7 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 MPD2-1.7 from RadioWaves has directional patterns with Dual Slant ($\pm 45^\circ$) polarization and features 2 x Type N Female connectors. The Type N connectorized MPD2-1.7 antenna from RadioWaves 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 RadioWaves products.

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

SPECIFICATIONS

General

| | |
|---------------|----------------------------------|
| Antenna Type | Mesh Parabolic Reflector Antenna |
| Size, nominal | 2 ft 0.6 m |

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|----------------------------|----------|
| Polarization | Dual |
| Standard RF Connector Type | N-Female |

Electrical

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|----------------------------------|-----------------|---------------|
| Operating Frequency Band | 1.71 - 2.69 GHz | 3.3 - 4.2 GHz |
| Half Power Beamwidth, Horizontal | 15 degrees | 12 degrees |
| Half Power Beamwidth, Vertical | 15 degrees | 12 degrees |
| Front to Back Ratio (F/B) | 25 dB | 25 dB |
| Gain, Low Frequency | 19 dBi | 21 dBi |

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|-----------------------------------|----------|--------|
| Gain, Mid Frequency | 20 dBi | 22 dBi |
| Gain, High Frequency | 21 dBi | 23 dBi |
| VSWR | 2.0:1 | 2.0:1 |
| Return Loss | -10 dB | -10 dB |
| Input Power per Port, Max (Watts) | 50 Watts | |

Mechanical

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|-------------------------------|--------------------|
| Fine Elevation Adjustment | +/- 30 degrees |
| Mounting Pipe Diameter, Min | 1.2 inch 3 cm |
| Mounting Pipe Diameter, Max | 1.8 inch 5 cm |
| Net Weight | 4.4 lbs 2 kg |
| Wind Velocity Operational | 90 mph 145 km/h |
| Wind Velocity Survival Rating | 125 mph 201 km/h |

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|-----------------------------|---------------------|
| Mechanical Configuration | MPD2-1-7 |
| Axial Force (FA) | 222 lbs 988 N |
| Side Force (FS) | 14 lbs 62 N |
| Twisting Moment (MT) | 225 ft-lbs 305 Nm |
| Operating Temperature Range | -40 to +60 C |

Regulatory Compliance

| | |
|----------------------------|------------|
| Industry Canada Compliance | undeclared |
| RoHS-compliant | Yes |

Shipping Information

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|--------------|----------------|
| Package Type | Cardboard |
| Gross Weight | 6 lbs 2.7 kg |

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| Dimensions, L x W x H | 28 x 8 x 28in 71 x 20 x 71 cm |
| Shipping Volume | 3.62 cu ft 0.1 cu m |

TECHNICAL DRAWINGS

