0.3m | 1ft. Mesh Parabolic Reflector Antenna, Dual-Polarized, 1.71 to 4.2 GHz



MPD1-1.7

The RadioWaves MPD1-1.7 is a high performance LTE / CBRS Mesh Parabolic Dish antenna specifically designed for cellular networks. RadioWaves' MPD1-1.7 has 16 to 18 dBi gain and can be used to broadcast Cellular LTE signals. The MPD1-1.7 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 MPD1-1.7 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 MPD1-1.7 from RadioWaves has directional patterns with Dual Slant (±45°) polarization and features 2 x Type N Female connectors. The Type N connectorized MPD1-1.7 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
- 17 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

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SPECIFICATIONS

General

Antenna Type	Mesh Parabolic Reflector Antenna
Size, nominal	1 ft | 0.3 m

Polarization	Dual
Standard RF Connector Type	N-Female

Electrical

Operating Frequency Band	1.71 - 2.69 GHz	3.3 - 4.2 GHz
Half Power Beamwidth, Horizontal	25 degrees	15 degrees
Half Power Beamwidth, Vertical	25 degrees	15 degrees
Front to Back Ratio (F/B)	25 dB	25 dB
Gain, Low Frequency	16 dBi	18 dBi

Gain, Mid Frequency	17 dBi	19 dBi
Gain, High Frequency	18 dBi	20 dBi
VSWR	2.5:1	2.5:1
Return Loss	-7.4 dB	-7.4 dB
Input Power per Port, Max (Watts)	50 Watts	

Mechanical

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	2.2 lbs | 1 kg
Wind Velocity Operational	90 mph | 145 km/h
Wind Velocity Survival Rating	125 mph | 201 km/h

Mechanical Configuration	MPD1-1-7
Axial Force (FA)	46 lbs | 204 N
Side Force (FS)	13 lbs | 58 N
Twisting Moment (MT)	27 ft-lbs | 36 Nm
Operating Temperature Range	-40 to +60 C

Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

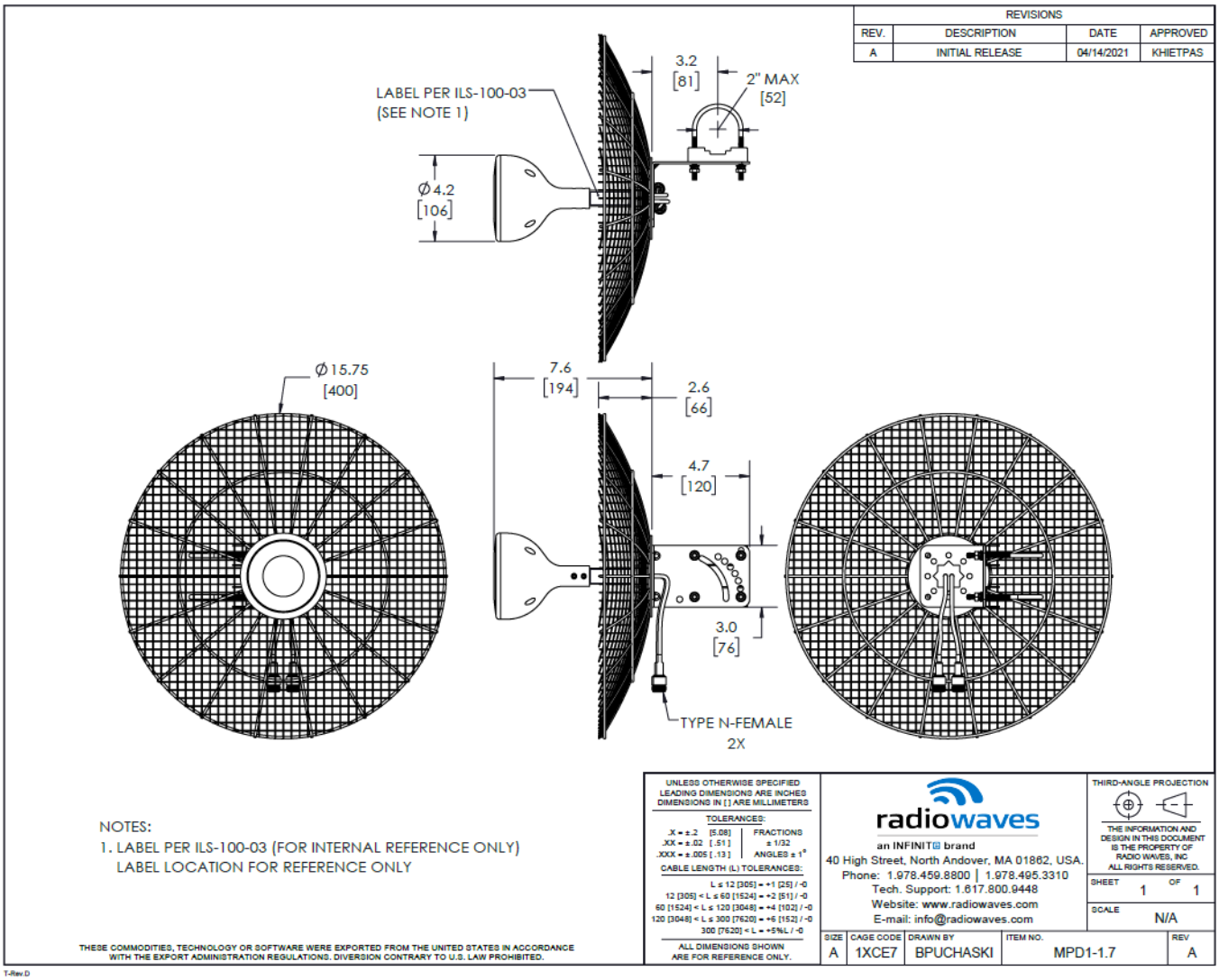
Shipping Information

Package Type	Cardboard
Gross Weight	4 lbs | 1.8 kg

Dimensions, L x W x H	16 x 16 x 10in | 40 x 40 x 13 cm
Shipping Volume	1.48 cu ft | 0.04 cu m

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TECHNICAL DRAWINGS



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