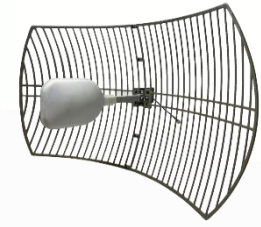


Outdoor Directional Parabolic Antenna

OPG-022V21MJUN

Narrow Beam Parabolic Antenna, 617-698/698-960/1695-2700/3300-4200MHz, N-Female

- **Wideband Frequency Coverage:** 617-698/698-960/1695-2700/3300-4200MHz supporting 4G LTE, 5G NR n71, n48 (CBRS), and n77 bands
- **Narrow Beamwidth:** Provides highly directional coverage while minimizing interference with adjacent coverage areas
- **High gain:** 10/13/22/21dBi respectively



Electrical Specification

Product Model	ODG-022V21MJUN			
Frequency (MHz)	617-698	698-960	1695-2700	3300-4200
Gain (dBi). Typical	10	13	22	21
Polarization	Vertical or Horizontal			
Beamwidth Horizontal (°)	25 ± 5	21 ± 5	9 ± 5	9 ± 5
Beamwidth Vertical (°)	38 ± 5	32 ± 5	14 ± 5	7 ± 5
Front Back Ratio (dB)	≥ 15	≥ 18	≥ 25	≥ 20
VSWR. Typical	2.0	2.2	1.8	1.8
PIM (dBc)	< -151dBc @ 2x43dBm			
Average Power, max (W)	100			
Impedance (ohm)	50			
Lightening Protection	DC Ground			

Mechanical Specification

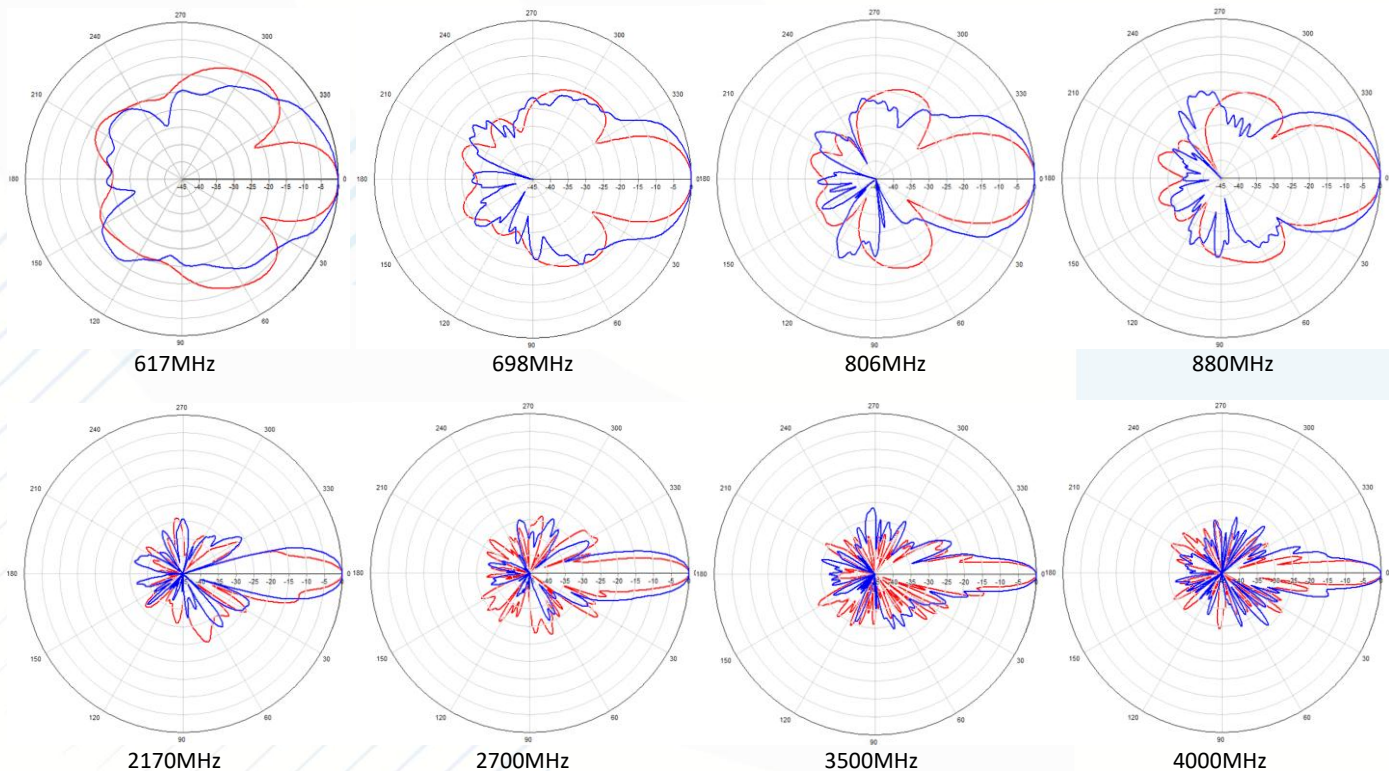
Dimension Diameter, height (in/mm)	23.6x35.4 / 600x900
Weight(lb./kg) with bracket	5.0 / 2.25
Shipping Dimension(in/mm)	26.0x.23.6x7.1 / 660x600x180
Shipping Weight(lb./kg)	10.4 / 4.70
Diameter of the mounting pole (in/mm)	Ø1.4 – 2.0 / Ø35 - 50
Antenna Tilt adjustment (°)	±25
Wind Rating (mph)	134
Connector	N-type Female
Materials	Feeder: UV rated ABS with aluminum holder; Cable -UV resistant, 1ft long Bracket, bolts, washers, and nuts: Dacromet-coated steel

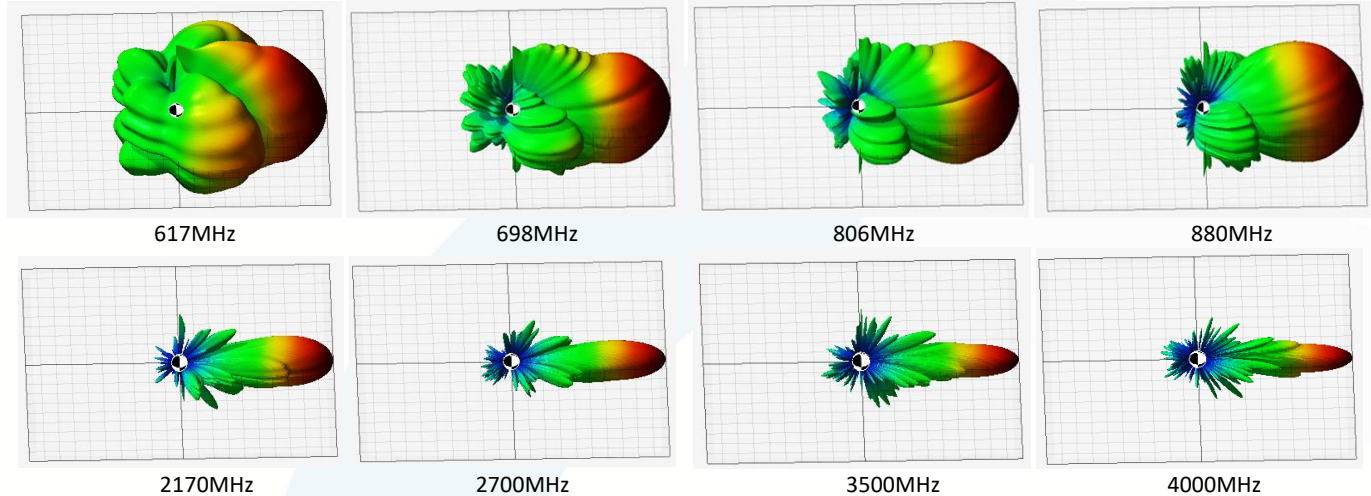
Environment & Compliance

Application	Outdoor
Operating Temperature	-40°C to +60°C
Relative Humidity	Up to 95%
RoHS	Compliant
Environment	IP-67

Antenna Pattern

— Horizontal — Vertical

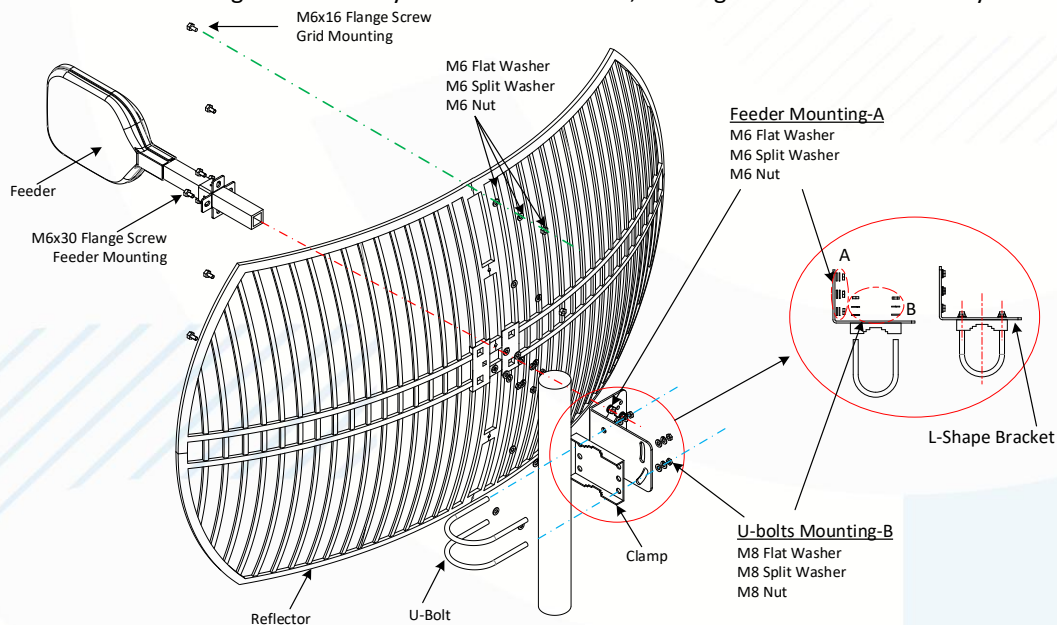




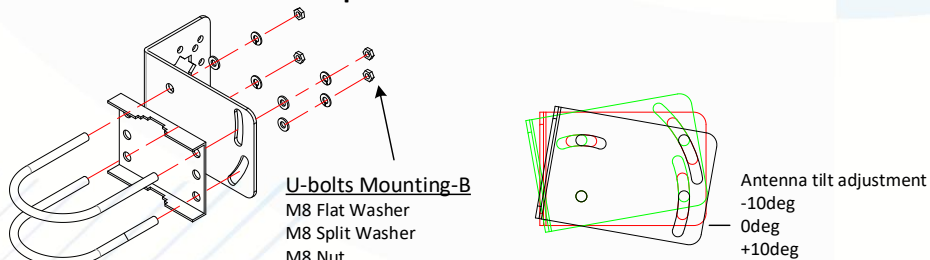
Outline Drawing & Installation Instruction

1. Installation

- Assemble the two pieces of the grid reflector using M6x16 bolts, flat washers, split washers, and nuts as shown in the diagram provided.
- Attach the feeder to the reflector and L-shape bracket using M6x30 bolts, flat washers, split washers, and nuts as shown in the diagram.
- Securely install the U-bolts to the antenna mounting pole using a clamp and L-shape bracket. Insert flat washers and split washers as needed. Ensure that the U-bolts are inserted into holes of the clamp for proper placement.
- Adjust the antenna tilt angle to aim it in your desired direction, then tighten the nut to securely mount it.



Antenna parts and installation



U-Bolts mounting with clamp and L-shape bracket.

2. Packing list

Item	Qty
Reflector, grid	2
Feeder	1
L-shape antenna bracket	1
U-bolt, M8	2
Clamp	1
M6x16 bolt & flat washer & split washer & nut	4 sets
M6x30 bolt & flat washer & split washer & nut	4 sets
M8 flat washer & split washer & nut	4 sets