

4.9-6.0 GHz Wideband Dual Polarized Parabolic Reflector Antenna Series with Radome

The MPRD prime focus parabolic reflector antenna suppresses extraneous sidelobe and cross-polarized energy. These antennas feature a micro fine elevation and azimuth adjustment kit. The MPRD series is provided with a radome as a standard feature.

Features

- Availability in two and three foot diameter sizes
- Radome comes standard and installed
- Rear mounted feed - radome never has to be removed
- Linear, continuous polarization adjustment
- Fine adjustment mechanism for elevation and azimuth
- Assembled and attached offset mount allows easy access to connector
- Double saddle mounting brackets will accommodate pipe attachments ranging from 1.625" to 4.5" OD
- Robust mounting structure. Three point mount attachment improves stability and prevents reflector distortion and mechanical oscillation
- 2 foot versions are UPS shippable



Antenna Electrical Specifications

Model	Frequency Range	Nominal Gain (+/- 0.5 dB)	3 dB Beamwidth, Nominal
MPRD2449	4.9-6.0 GHz	27.5 dBi at 4.9 GHz 28.1 dBi at 5.15 GHz 29.4 dBi at 5.875 GHz	6°
MPRD3649	4.9-6.0 GHz	29.8 dBi at 4.9 GHz 31.0 dBi at 5.15 GHz 32.0 dBi at 5.875 GHz	4°

Mechanical Specifications

Model	Wind Survival with 1/2" of radial ice	Temperature Range	Diameter
MPRD2449	125 mph	-40°C to +80°C	26" (66 cm)
MPRD3649	125 mph	-40°C to +80°C	36" (91 cm)



Technical Data

General Specifications: Prime Focus Parabolic Reflector Antenna
Maximum Power: 25 watts
Nominal Impedance: 50 ohms
SWR/return loss: < 1.5 / >13.9 dB for 5.15-6.0 GHz operation < 1.7/ >12 dB for 4.9-5.15 GHz operation
Polarization: Dual linear, continuously adjustable
Front-to-back Ratio: 36 dB (MPRD2449) 43 dB (MPRD3649)
Interport Isolation: > 35 dB
Cross Polarization Discrimination: > 30 dB
Interface Connector: Type N female
Mount Interface: Accommodates 1.625" to 4.5" pipe OD