

XtremeWave™ MPR Wideband Parabolic Reflector Series

MAXRAD

4.6 to 6.0 GHz Wideband Parabolic Reflector Antennas

The XtremeWave™ prime focus parabolic reflector antennas utilize leading edge technology that suppresses extraneous sidelobe and cross-polarized energy and directs the radiated signal towards its target area of coverage. The result is outstanding coverage with high gain and minimum interference. These antennas provide wideband coverage of frequencies ranging from 4.9 GHz to 6 GHz without additional tuning. They can be mounted for vertical or horizontal polarization and feature a micro fine azimuth and elevation adjustment mechanism for easy path alignment.

General Specifications:

Prime focus, wideband parabolic reflector antennas

Polarization:

Vertical or horizontal, linear (installer selectable)

Nominal Impedance:

50 Ohms

Mounting Method:

Accommodates 1.25" to 2.38" pipe OD
Can be tower leg or wall mounted

Termination:

N, female bulkhead (MPRW49027, MPRW49029, MPRW49031)
N, male cable jumper optional

Features and Benefits:

- Leading edge technology suppresses unnecessary sidelobes and directs all energy towards its target area of coverage thus minimizing interference and providing outstanding data throughput.
- Wideband coverage allows the use of one antenna to cover all frequencies ranging from 4.9 GHz to 6.0 GHz.
- Extremely robust mounting structure. Mount is bolted to the dish in an eight star pattern that provides the optimum number of mounting points to firmly secure the dish. This design prevents reflector distortion and oscillation due to windy conditions thus providing better signal throughput.
- Micro adjustable azimuth and elevation mechanism. Allows user to properly align the antenna to ensure maximum performance and signal throughput.
- Compact and light weight, high grade spun aluminum reflector. Provides maximum parabola accuracy for more consistent and reliable antenna performance. Its compact design permits pipe, wall or tower leg mounting even in locations where space is limited.
- Extremely durable design. Larger roll on the edge of the dish vastly increases strength and prevents bending when vertical pressure is applied.
- UPS shippable. Shipping box dimensions are 27.5" x 27.5" x 10.5", totalling less than 108" girth and width for reduced shipping and storage costs (24" parabolic dish only).



The MPRW series of parabolic reflector antennas provide wideband coverage in frequencies ranging from 4.9 GHz to 6.0 GHz.



The MPR's compact and light weight spun aluminum reflector provides maximum parabola accuracy for more consistent and reliable antenna performance. Its robust mounting structure prevents bending and oscillation that can cause signal degradation.

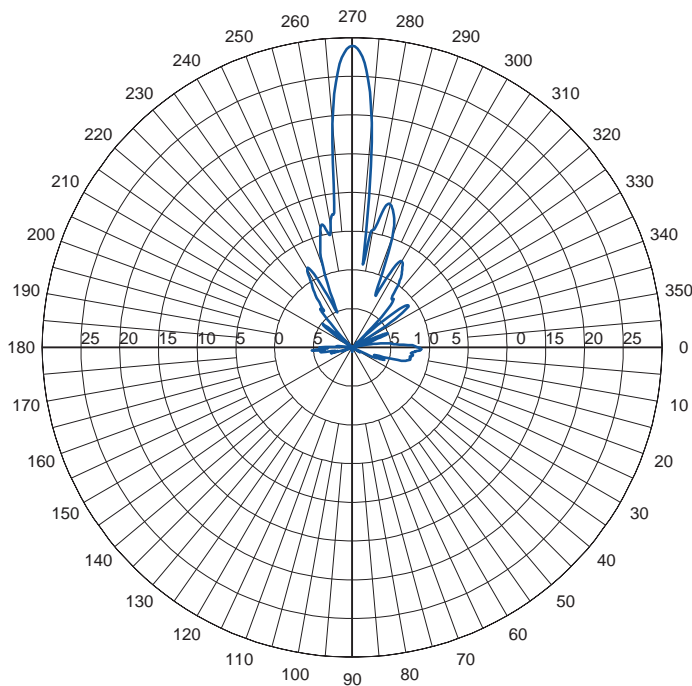
Specifications

Electrical Specifications

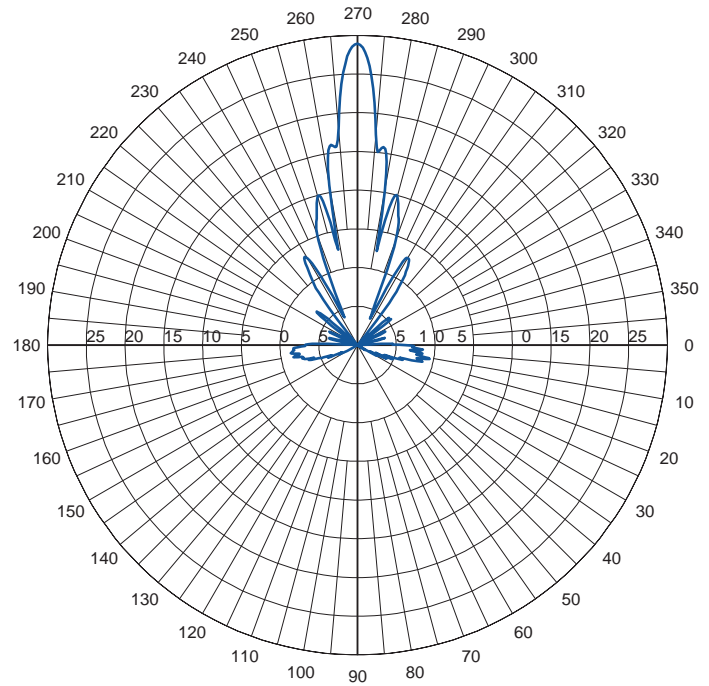
Model #	Frequency Range	VSWR	Front-to-Back Ratio	Nominal Gain at 4.9 GHz (+/- .5 dBi)	Nominal Gain at 5.25 GHz (+/- .5 dBi)	Nominal Gain at 5.8 GHz (+/- .5 dBi)	Vertical and Horizontal Beamwidth (+/- .3°)	Typical Cross-Pol @ Bore-site	Maximum Sidelobe Level	Maximum Power
MPRW49027	4.9 - 6.0 GHz	< 1.5:1	-35 dB	27 dBi	28 dBi	29 dBi	5.9°	> -28	-18 dB	5 Watts
MPRW49029	4.9 - 6.0 GHz	< 1.5:1	-35 dB	29 dBi	30 dBi	31 dBi	4.7°	> -28	-23 dB	5 Watts
MPRW49031	4.9 - 6.0 GHz	< 1.5:1	-35 dB	31 dBi	32 dBi	33 dBi	4.0°	> -28	-20 dB	5 Watts

Mechanical Specifications

Model #	Wind Survival with 1/2" of ice	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area	Temperature Range	Cable	Diameter	Weight
MPRW49027	110 mph	327 lbs	3.6 ft ²	-40°C to +80°C	N female bulkhead	24" (609 mm)	8.5 lbs (3.8 kg)
MPRW49029	110 mph	396 lbs	5.7 ft ²	-30°C to +60°C	N female bulkhead	29" (736 mm)	9.0 lbs (4.08 kg)
MPRW49031	110 mph	738 lbs	8.2 ft ²	-40°C to +80°C	N female bulkhead	36" (914 mm)	9.5 lbs (4.08 kg)



MPRW49027 Elevation Cut



MPRW49027 Azimuth Cut