

## PCS, 2.4 GHz ISM and 5.8 GHz ISM Directional Panel Antenna Series

The MAXRAD XtremeWave™ directional panel antennas are designed to cover PCS, 2.4 GHz and 5.8 GHz frequencies with a VSWR of less than 1.5:1, obtaining maximum gain with an attractive, low-profile package. All models provide efficient and stable performance across the band and can be mounted indoors or outdoors.

**General Specifications:**  
Directional panel antennas

**Radome Material:**  
UL 94-V0 plastic

**Polarization:**  
Linear, vertical/horizontal. Left hand circular (MP24012CPLXF only).

**Nominal Impedance:**  
50 Ohms

### Mounting Method:

Model/Mount	MPAB7	MPAB8	MPAB10	MPAB11	MPAB12
MP19008XFPT	N/A	N/A	N/A	included	optional
MP19013XFPT	optional	optional	N/A	optional	optional
MP24008XFPT	N/A	N/A	N/A	included	optional
MP24012CPLXFPT	optional	optional	N/A	optional	optional
MP24013XFPT	optional	optional	N/A	optional	optional
MP24018XFPT	optional	optional	optional	N/A	N/A
MP58013XFPT	N/A	N/A	N/A	included	optional
Mount Description	Heavy duty outdoor adjustable mount with +/-35° uptilt/downtilt.  If used with MP24018XFPT the mount provides +/-18° uptilt/downtilt.  Same as MPAB8 but bracket is longer.	Heavy duty outdoor adjustable mount with 17° uptilt/downtilt.  If used with MP24018XFPT the mount provides +/-9° uptilt/downtilt.	Heavy duty outdoor adjustable mount +/-20° uptilt/downtilt and +/-90° polarity.  Includes DSS satellite style house bracket.	Short adjustable indoor mount.  It may be used outdoors with small housing panels only.	Long adjustable indoor corner mount.

### Features and Benefits:

- Patented printed circuit board design. Best performance-to-price ratio.
- UL94-V0 plastic and PC board. Provides UL's highest flame retardant rating allowing maximum placement flexibility. Meets the most stringent building fire rating codes.
- Attractive, low profile housing. Blends well with indoor and outdoor environments where aesthetic considerations are important.
- Corner exit RG-58/U pigtail design (PCS and 2.4 GHz models) or .141 semi-rigid (5.1 and 5.8 GHz models.) Permits the linear polarized panel to be mounted in vertical or horizontal polarity with a wide variety of connectors.
- Optional UL 910 rated Plenum cable. Allows the cable to be installed in the strictest indoor mounting locations, including air ducts.
- Adjustable mounting brackets for indoor and outdoor mounting. Provide maximum flexibility for indoor or outdoor installations.



MP24008XFPT or MP19008XFPT or MP58013XFPT



MP24013XFPT on MPAB12 Corner Mount



MP58013XFPT or MP24008XFPT or MP19008XFPT on MPAB11 Mount



MP24013XFPT on MPAB8 Outdoor Mount



MP24018XFPT

# Specs and Patterns

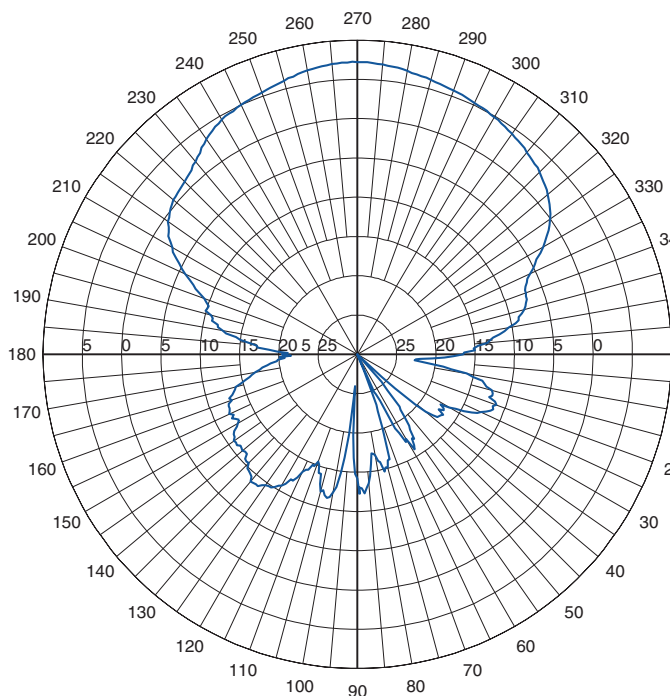
## Electrical Specifications

Model #	Frequency Range	Gain	Front-to-Back Ratio	3 dB Horizontal Beamwidth	3 dB Vertical Beamwidth	VSWR	Maximum Power Input	Connector Options
MP19008XFPT	1850-1990 MHz	8.0 dBi	> 15 dB	90°	60°	< 1.5:1	20 W	N female (part #NF) is standard. Other connector options are available. Please consult factory for details.
MP19013XFPT	1850-1990 MHz	12.5 dBi	> 18 dB	40°	35°	< 1.5:1	20 W	
MP24008XFPT	2300-2500 MHz	8.5 dBi	> 15 dB	60°	60°	< 1.5:1	20 W	
MP24012CPLXFPT	2300-2500 MHz	12.0 dBic	> 20 dB	35°	35°	< 1.5:1	20 W	
MP24013XFPT	2300-2500 MHz	13.0 dBi	> 18 dB	35°	35°	< 1.5:1	20 W	
MP24018XFPT	2300-2500 MHz	18.0 dBi	> 25 dB	18°	19°	< 1.5:1	20 W	
MP51513XFPT	5150-5350 MHz	13.0 dBi	> 23 dB	42°	27°	< 1.5:1	20 W	
MP58013XFPT	5725-5875 MHz	12.5 dBi	> 23 dB	42°	28°	< 1.5:1	20 W	

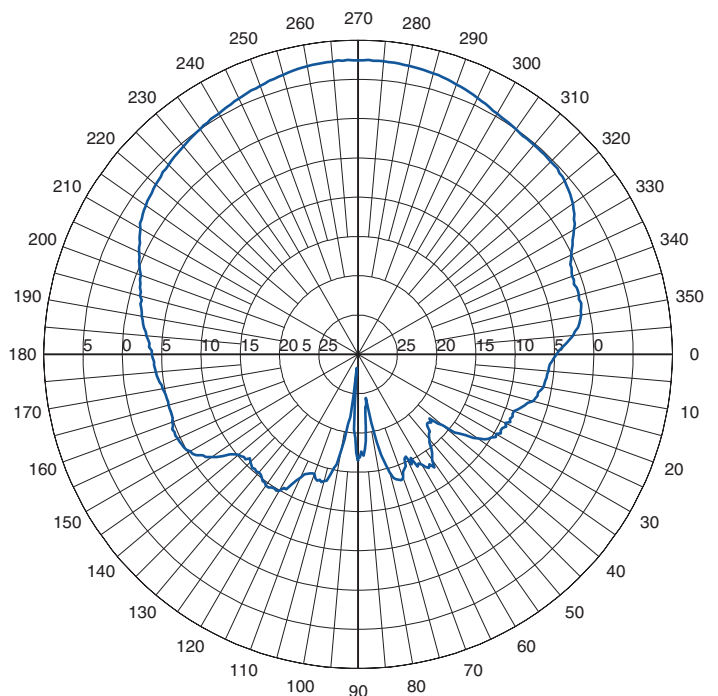
## Mechanical Specifications

Model #	Wind Loading (Frontal) @100 mph Wind	Temperature Range	Dimensions	Weight	Cable
MP19008XFPT	9.3 lbs.	-40°C to +70°C	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	12" (30.5 cm) RG58/U*
MP19013XFPT	27.9 lbs.	-40°C to +70°C	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	12" (30.5 cm) RG58/U*
MP24008XFPT	9.3 lbs.	-40°C to +70°C	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	12" (30.5 cm) RG58/U*
MP24012CPLXFPT	27.9 lbs.	-40°C to +70°C	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	12" (30.5 cm) RG58/U*
MP24013XFPT	27.9 lbs.	-40°C to +70°C	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	12" (30.5 cm) RG58/U*
MP24018XFPT	85 lbs.	-40°C to +70°C	15.1" x 13.9" x 1.9" (38.4 x 35.3 x 4.8 cm)	3.9 lbs (1.8 kg)	12" (30.5 cm) RG58/U*
MP51513XFPT	9.3 lbs.	-40°C to +70°C	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	6" (15.25 cm) .141 semi-rigid*
MP58013XFPT	9.3 lbs.	-40°C to +70°C	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	6" (15.25 cm) .141 semi-rigid*

\* UL910 rated cable optional.



MP19008XFPT Elevation Cut



MP19008XFPT Azimuth Cut