

PCS, 2.4 GHz ISM and MMDS Omnidirectional Base Station Antenna Series

The XtremeWave™ wireless broadband omnidirectional antennas are designed to provide maximum performance and reliability under the toughest weather conditions. These antennas feature a UV stable, vented radome that provides ultimate protection against weather elements. They can be mast, wall or ceiling mounted.

General Specifications:

Radome Material:

UV resistant pultruded fiberglass

Polarization:

Vertical

Lightning Protection:

Not standard, but all models can be ordered with DC grounding. Add a "DC" suffix to the part number to choose the DC grounded version of the antenna.

Nominal Impedance:

50 Ohms

Mounting Base Diameter:

1.25 inches (all models except MFB24012)

1.5 inches (model MFB24012)

Mounting Method (sold separately):

MMK1924 - L bracket mount for wall or pipe mount (all models, except MFB24010 and MFB24012)

MMK8A - Aluminum extruded bracket for mast mounting (all models, except model MFB24012)

MMK11 - Ceiling mount bracket (for MFB24004, MFB24006 and MFB24008 only)

MMK12 - Heavy duty bracket for mast mounting the MFB24012

MMK14 - Light duty mounting clamp for MFB24012

Termination:

N female standard with all models, except MFB24012

N female, reverse polarity and reverse threaded connectors optional

16" RG-213 pigtail with N female connector for model MFB24012 only

N male connector option available with models MFB24010, MFB24008, MFB24006 and MFB19008. To order, add "NM" to part number.

Features and Benefits:

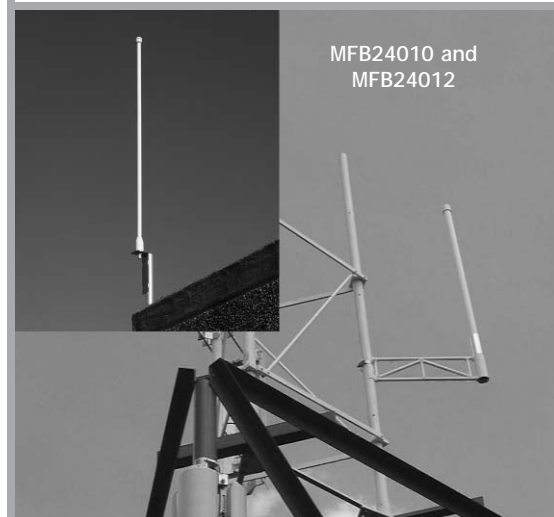
- UV stable, pultruded fiberglass radome. Allows outdoor installation even in harsh climates.
- Vented system design (all models except MFB24012). Provides reliable performance by protecting the electrical design against extreme moisture and/or temperatures.
- Thread relief on connector (all models, except MFB24012 which has a pigtail). Improved accessibility for taping reduces installation time and improves overall effectiveness.
- Internal o-ring seal in the base of the antenna with integrated connector at the base. Assures a watertight seal to prevent water from migrating into the antenna connector (all models, except MFB24012 which has a pigtail.)
- Electrical downtilt options on select models. Provide system planners flexibility in challenging operating environments.



XtremeWave™ MFB24012



XtremeWave™ Models 25007 MMDS, MFB19008A PCS, MFB24006 and MFB24008 2.4 GHz ISM Antennas



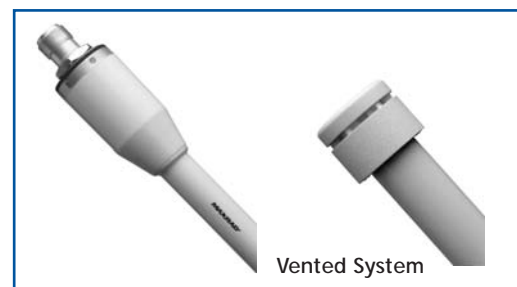
Specifications

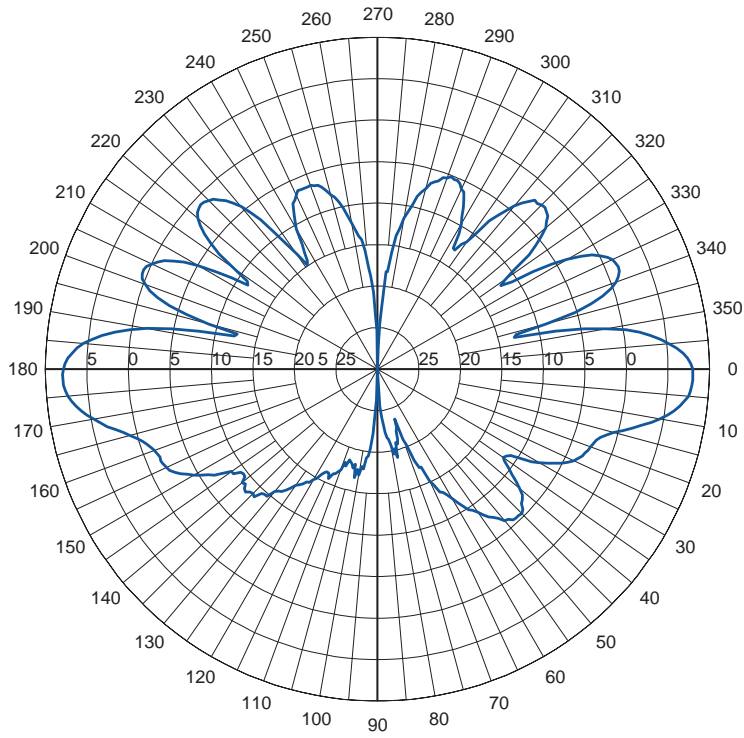
Electrical Specifications

Model #	Frequency Range	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth @ 1/2 Power	VSWR	Maximum Power	Downtilt
MFB19008A	1850-1990 MHz	8 dBi	140 MHz	12°	< 1.5:1	25 Watts	N/A
MFB24004	2400-2483.5 MHz	4 dBi	100 MHz	30°	< 1.5:1	25 Watts	N/A
MFB24006	2400-2483.5 MHz	6 dBi	100 MHz	20°	< 1.5:1	25 Watts	N/A
MFB24008	2400-2483.5 MHz	8 dBi	100 MHz	13°	< 1.5:1	25 Watts	N/A
MFB24008DT3	2400-2483.5 MHz	8 dBi	100 MHz	13°	< 1.5:1	25 Watts	3°
MFB24008DT5	2400-2483.5 MHz	8 dBi	100 MHz	13°	< 1.5:1	25 Watts	5°
MFB24008DT7	2400-2483.5 MHz	8 dBi	100 MHz	13°	< 1.5:1	25 Watts	7°
MFB24008DT12	2400-2483.5 MHz	8 dBi	100 MHz	13°	< 1.5:1	25 Watts	12°
MFB24010	2400-2483.5 MHz	10 dBi	100 MHz	9°	< 1.5:1	25 Watts	N/A
MFB24012	2400-2500 MHz	12 dBi	100 MHz	7°	< 1.5:1	25 Watts	N/A
MFB25007	2500-2700 MHz	7 dBi	200 MHz	13°	< 1.5:1	25 Watts	N/A
MFB25007DT3	2500-2700 MHz	7 dBi	200 MHz	13°	< 1.5:1	25 Watts	3°

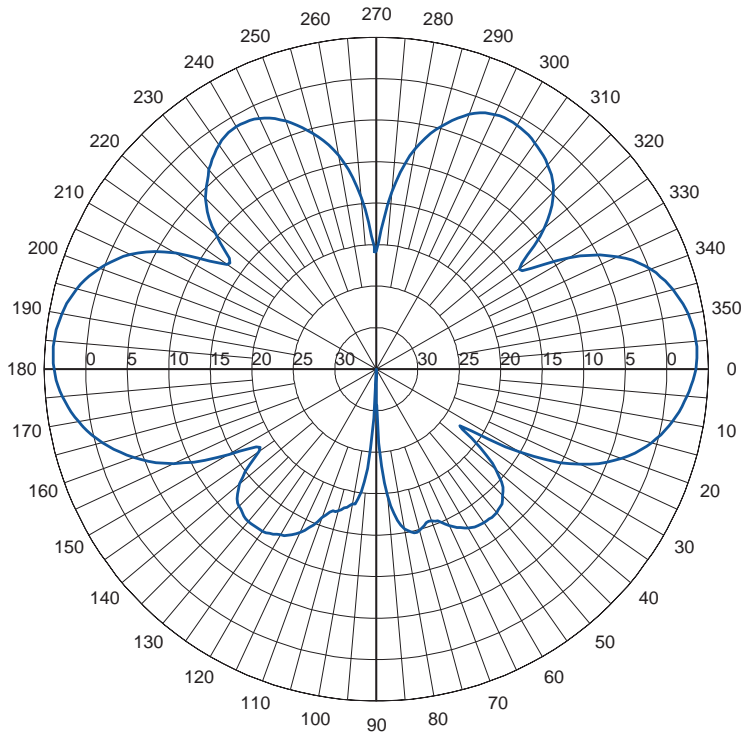
Mechanical Specifications

Model #	Wind Survival	Equivalent Flat Plate Area	Lateral Thrust @ Rated Wind	Bending Moment @ Rated Wind	Height	Weight
MFB19008A	125 mph	.07 ft ²	5.9 lbs	5.7 ft-lbs	24.0" (609.6 mm)	0.70 lbs (0.318 kg)
MFB24004	125 mph	.02 ft ²	2.1 lbs	0.7 ft-lbs	8.1" (205.7 mm)	0.34 lbs (0.154 kg)
MFB24006	125 mph	.04 ft ²	3.0 lbs	1.4 ft-lbs	11.6" (294.6 mm)	0.38 lbs (0.172 kg)
MFB24008	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)
MFB24008DT3	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)
MFB24008DT5	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)
MFB24008DT7	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)
MFB24008DT12	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)
MFB24010	125 mph	.11 ft ²	10.1 lbs	14.7 ft-lbs	36.0" (914.4 mm)	0.65 lbs (0.295 kg)
MFB24012	125 mph	.25 ft ²	22.4 lbs	41 ft-lbs	44.0" (1,118 mm)	3.00 lbs (1.400 kg)
MFB25007	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)
MFB25007DT3	125 mph	.06 ft ²	5.2 lbs	4.4 ft-lbs	20.2" (513.1 mm)	0.50 lbs (0.226 kg)

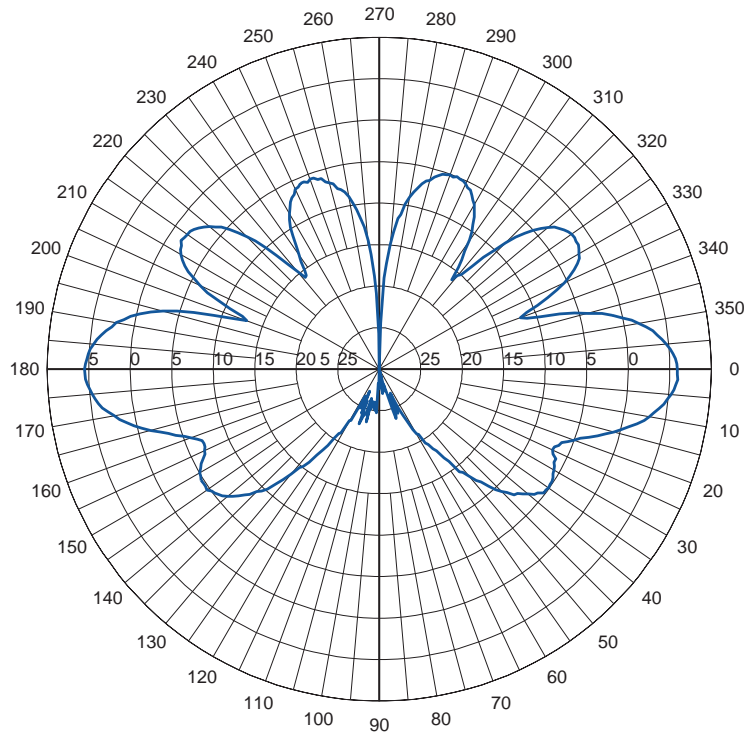




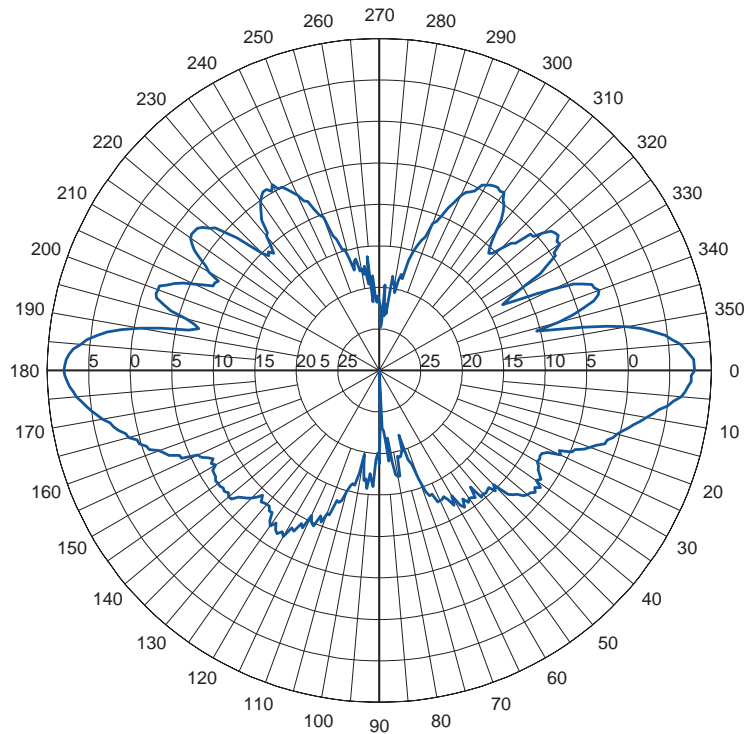
MFB19008A Elevation Cut



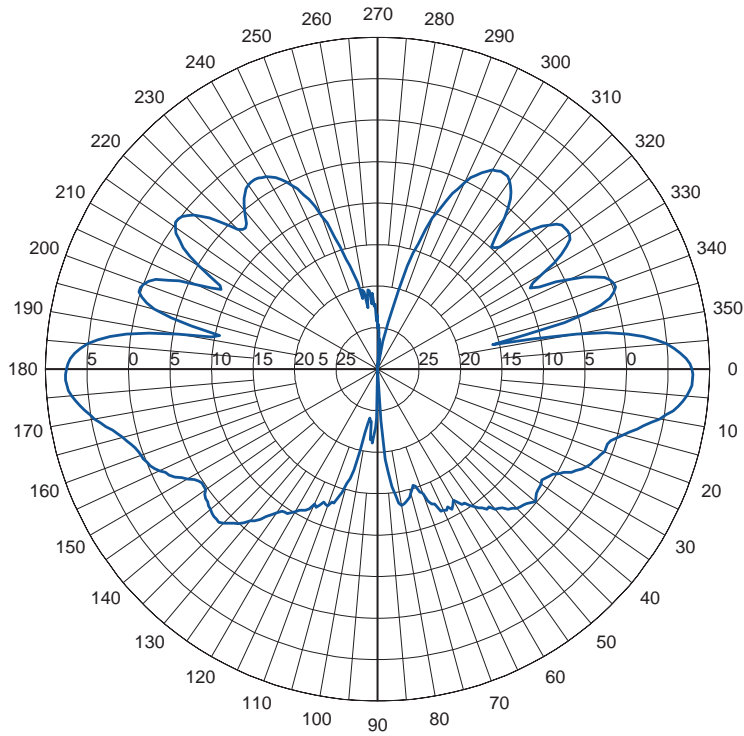
MFB24004 Elevation Cut



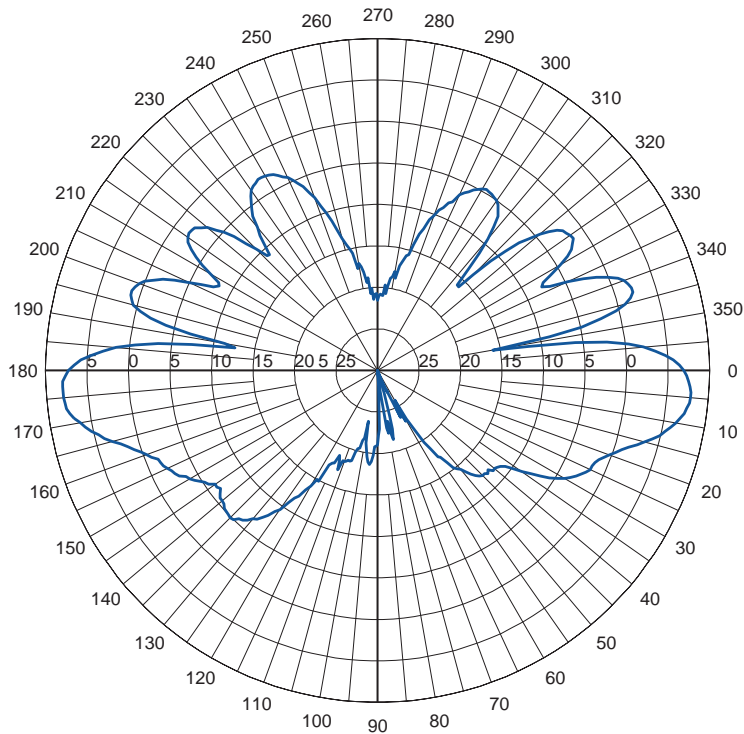
MFB24006 Elevation Cut



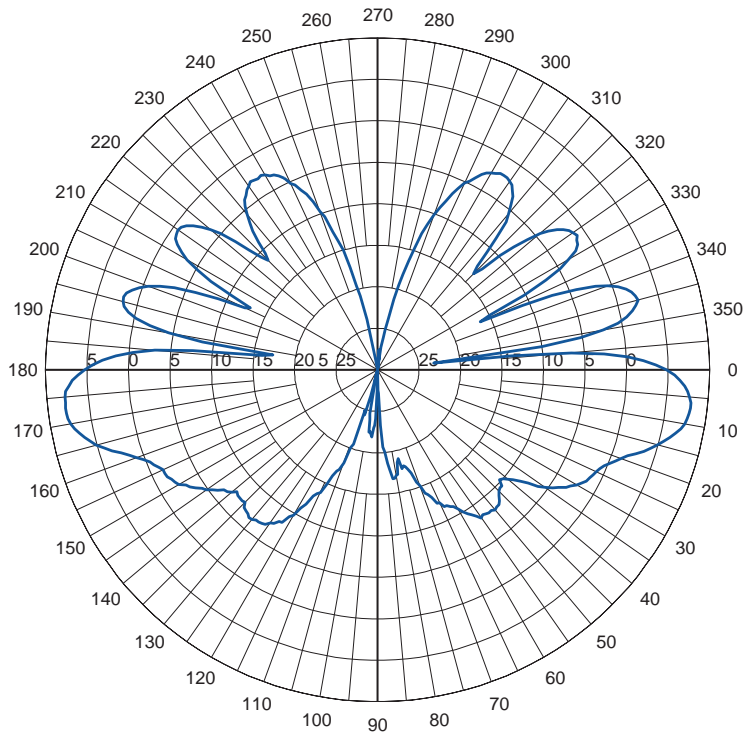
MFB24008 Elevation Cut



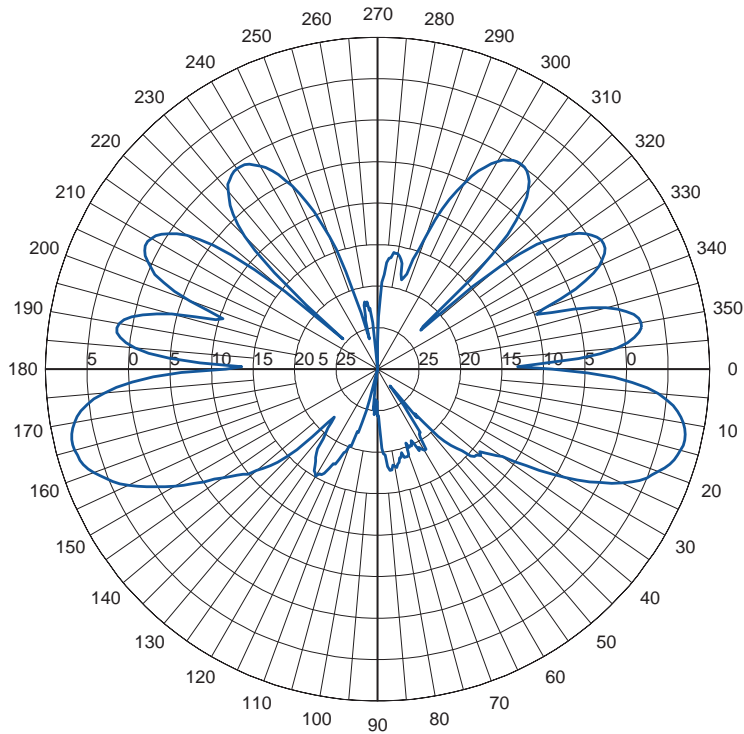
MFB24008DT3 Elevation Cut



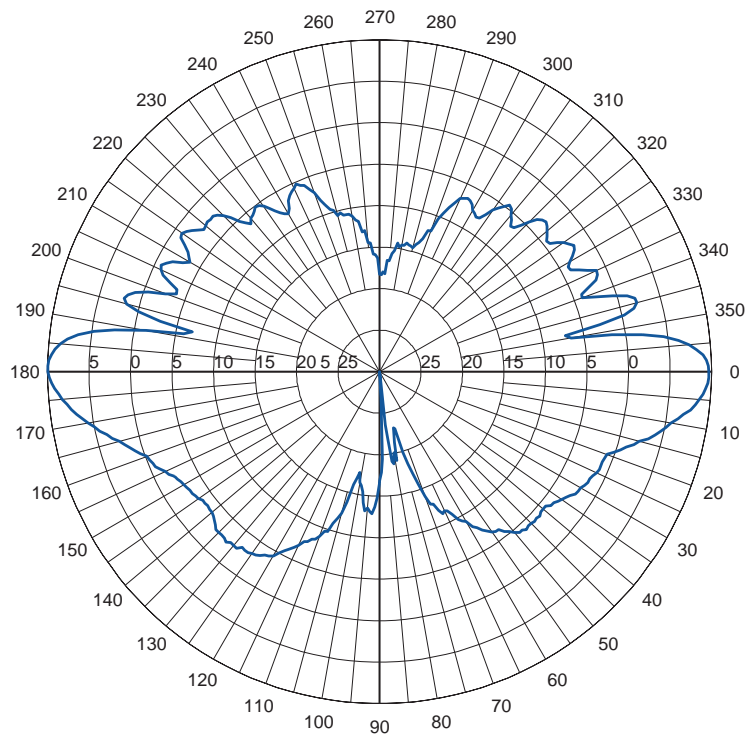
MFB24008DT5 Elevation Cut



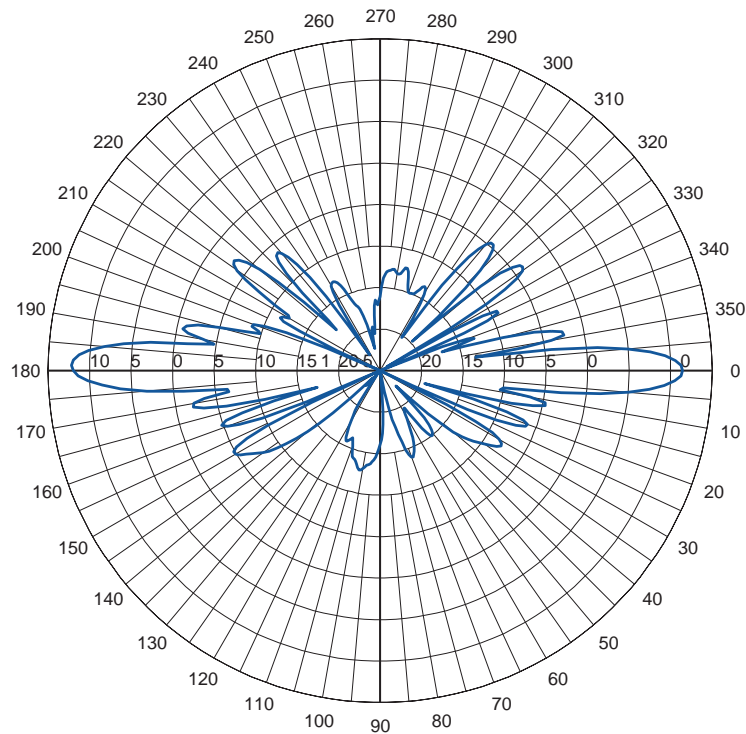
MFB24008DT7 Elevation Cut



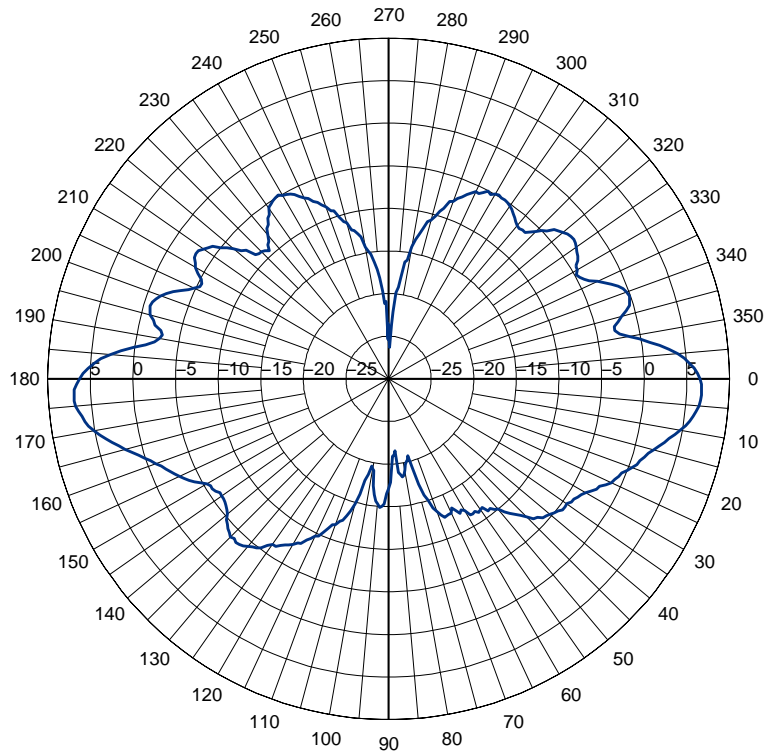
MFB24008DT12 Elevation Cut



MFB24010 Elevation Cut



MFB24012 Elevation Cut



MFB25007DT3 Elevation Cut