

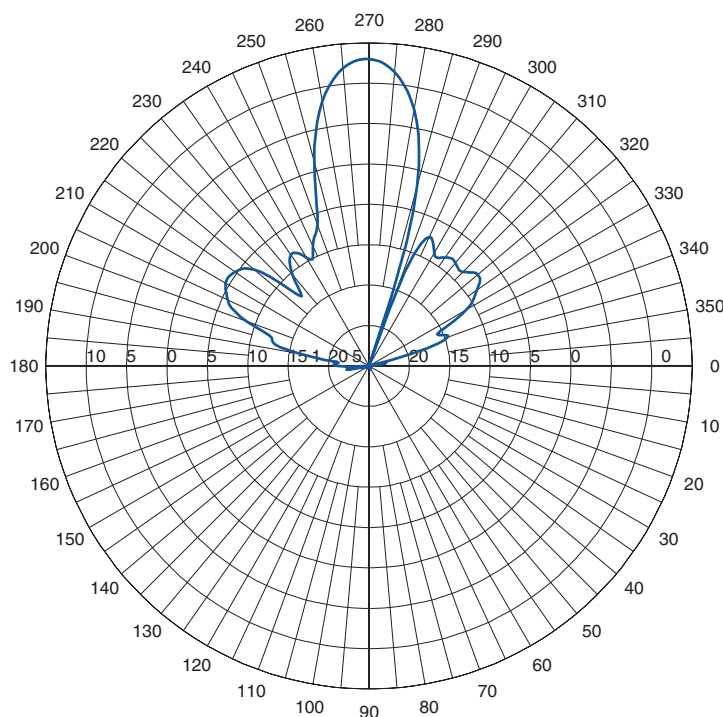
Specs and Patterns

Electrical Specifications

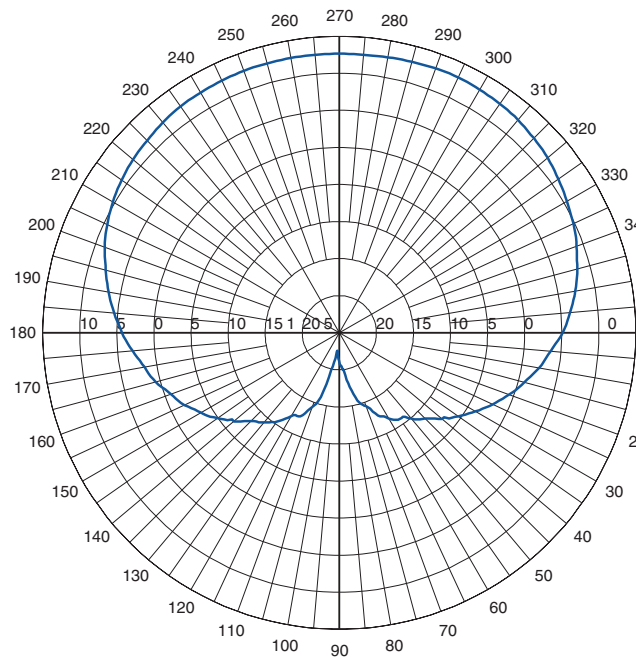
Model #	Frequency Range	Nominal Gain	Front-to-Back Ratio	Horizontal Plane Beamwidth	E-Plane Beamwidth	Typical Cross Poll Discrimination	VSWR	Maximum Power Input
MSP24013MB	2400-2500 MHz	13 dBi at 120° 14 dBi at 90° 16 dBi at 60° 17 dBi at 45°	> 32 dB at 120° > 42 dB at 90° > 42 dB at 60° > 42 dB at 45°	120°, 90°, 60° and 45°	16°	270°-0°, 0°-90° = -20 dB 235°-270°, 90°-135° = -28 dB 180°-235°, 135°-180° = -32 dB	< 1.5:1	50 Watts
MSP24013-120	2400-2500 MHz	13 dBi	> 32 dB	120°	16°	(all models)	< 1.5:1	50 Watts
MSP24014-90	2400-2500 MHz	14 dBi	> 42 dB	90°	16°	270°-0°, 0°-90° = -20 dB	< 1.5:1	50 Watts
MSP24016-60	2400-2500 MHz	16 dBi	> 42 dB	60°	16°	235°-270°, 90°-135° = -28 dB	< 1.5:1	50 Watts
MSP24017-45	2400-2500 MHz	17 dBi	> 42 dB	45°	16°	180°-235°, 135°-180° = -32 dB	< 1.5:1	50 Watts
MSP2401090PT	2400-2500 MHz	10 dBi	> 32 dB	90°	35°	> 20 dB	< 1.5:1	50 Watts

Mechanical Specifications

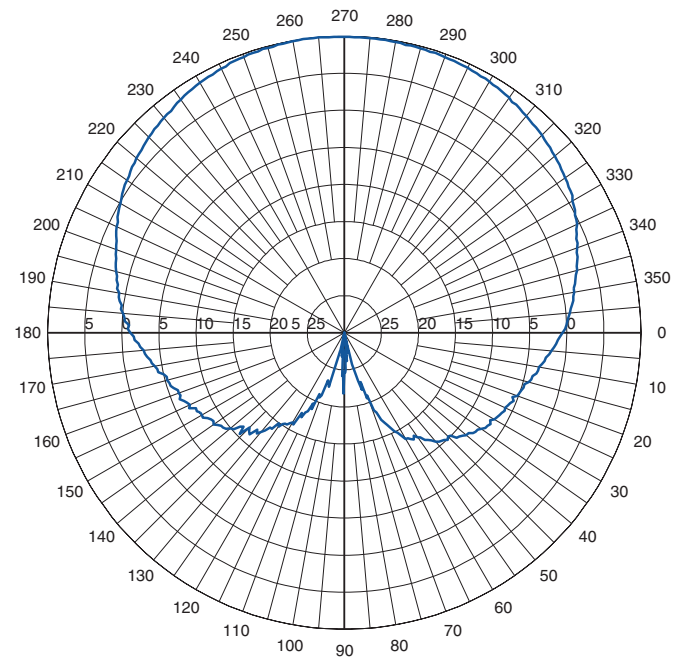
Model #	Rated Wind Velocity	Horizontal Thrust at Rated Wind	Temperature Range	Dimensions	Weight
MSP24013MB	125 mph (200 km/h)	43 lbs (19.5 kg)	-30° C to +75° C	21.5" L x 6.5" W x 2.8" D (546 mm L 16.5 mm W x 7.2 mm D)	4 lbs (1.8 kg)
MSP24013-120	125 mph (200 km/h)	43 lbs (19.5 kg)	-30° C to +75° C	21.5" L x 6.5" W x 2.8" D (546 mm L 16.5 mm W x 7.2 mm D)	4 lbs (1.8 kg)
MSP24014-90	125 mph (200 km/h)	43 lbs (19.5 kg)	-30° C to +75° C	21.5" L x 6.5" W x 2.8" D (546 mm L 16.5 mm W x 7.2 mm D)	4 lbs (1.8 kg)
MSP24016-60	125 mph (200 km/h)	43 lbs (19.5 kg)	-30° C to +75° C	21.5" L x 6.5" W x 2.8" D (546 mm L 16.5 mm W x 7.2 mm D)	4 lbs (1.8 kg)
MSP24017-45	125 mph (200 km/h)	43 lbs (19.5 kg)	-30° C to +75° C	21.5" L x 6.5" W x 2.8" D (546 mm L 16.5 mm W x 7.2 mm D)	4 lbs (1.8 kg)
MSP2401090PT	125 mph (200 km/h)	43 lbs (19.5 kg)	-30° C to +75° C	8.0" L x 6.5" W x 2.8" D (203 mm L x 16.5 mm W x 7.2 mm D)	3 lbs (1.3 kg)



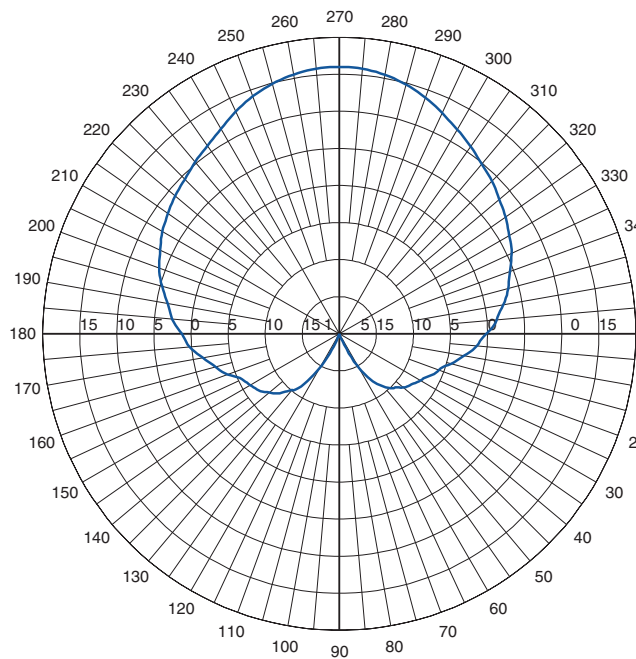
Elevation Beamwidth
45°, 60°, 90° and 120° Sectors



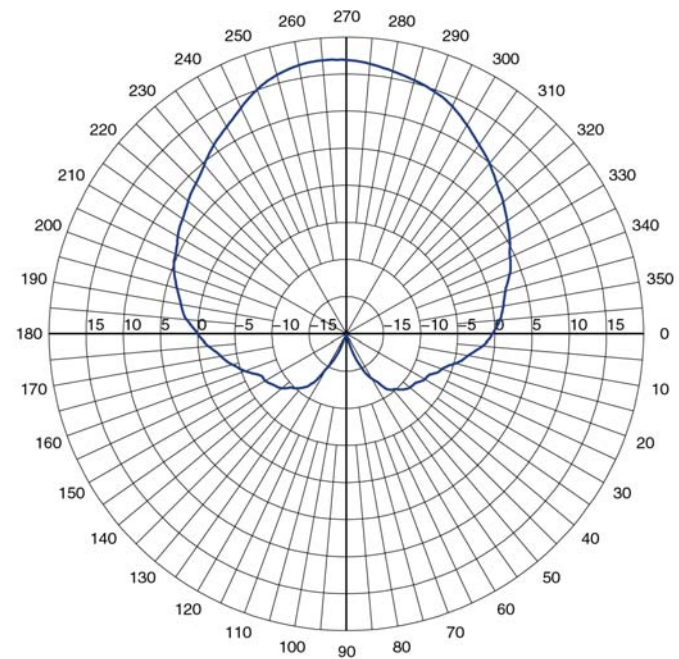
120° Azimuth Cut



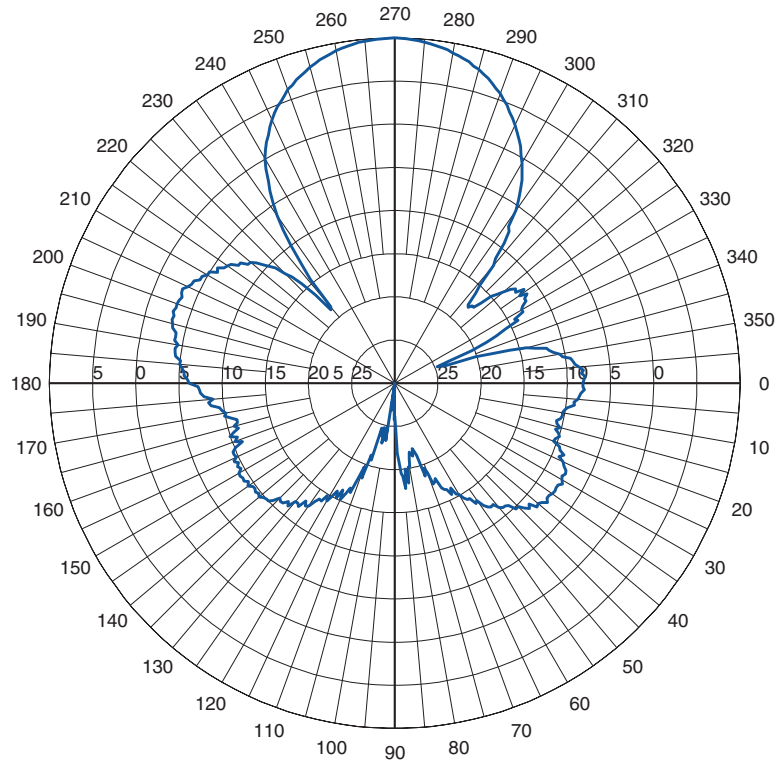
90° Azimuth Cut



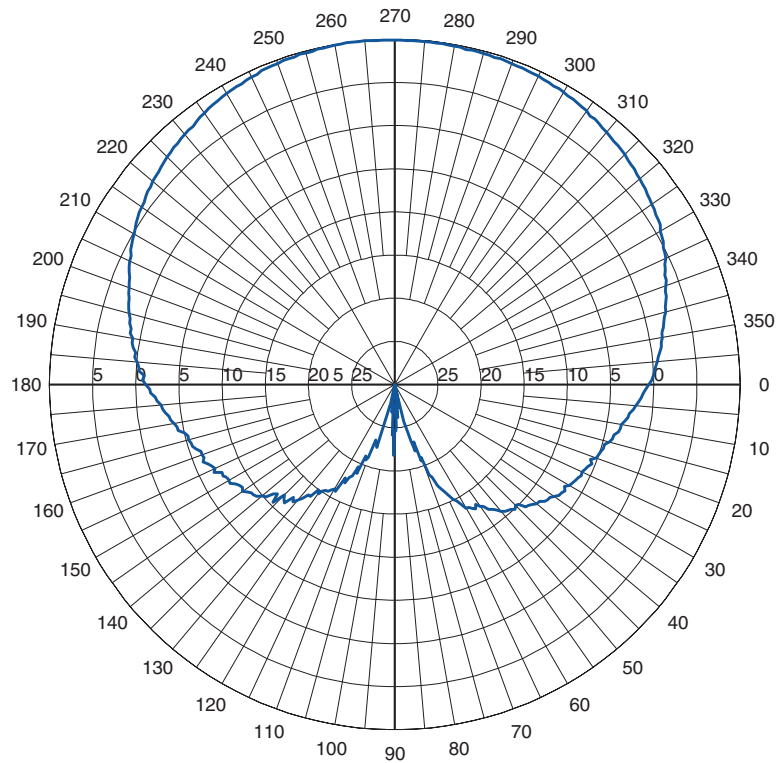
60° Azimuth Cut



45° Azimuth Cut



MSP2401090 Elevation Cut



MSP2401090 Azimuth Cut