

# XtremeWave™ Sector Series

## Dual Band, Dual Input Sector

**MAXRAD**

### 2.4-2.5 GHz and 4.9-5.9 GHz Dual Band, Dual Input Sector Panel Antenna for Broadband Wireless and Public Safety

The XtremeWave™ MSPDBDI244914NF sector panel antenna provides coverage of 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.9 GHz frequencies in a single antenna housing. Its dual N female bulkhead inputs permit simultaneous operation of 4.9 GHz Public Safety, 802.11a, b, g and WiMAX radio devices. This antenna features a rugged UV resistant housing and includes a pipe mount for outdoor installations.

#### General Specifications:

Dual band, dual input sector panel antenna

#### Radome Material:

Sky Gray UV resistant plastic

#### Termination:

2.4 to 2.5 GHz N female bulkhead

4.9 to 5.9 GHz N female bulkhead

#### Polarization:

Vertical

#### Lighting Protection:

Each input DC grounded

#### Mounting Method:

Adjustable mount

Pipe mount included

#### Nominal Impedance:

50 Ohms

#### Feature and Benefits:

- Covers 2.4 to 2.5 GHz and 4.9 to 5.9 GHz frequencies with excellent VSWR performance.
- Outstanding front-to-back ratio and controlled sidelobe radiation ensures that the radiated energy is targeted towards the area of coverage.
- Included adjustable pipe mount permits uptilt, downtilt or vertical adjustment of +/-15 degrees for more precise coverage of the geographic area.
- Slim, low profile housing and included pipe mount provide added mounting flexibility for locations where space availability is limited.
- High isolation design – outstanding for both bands. 68dB is typical when antennas are radially spaced and used for omnidirectional coverage (typically 3 antennas are used radially spaced, 120° apart).



This antenna is designed to cover frequencies from 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.9 GHz. Its slim, low profile housing and pipe mount provide added mounting flexibility for locations where space availability is limited.

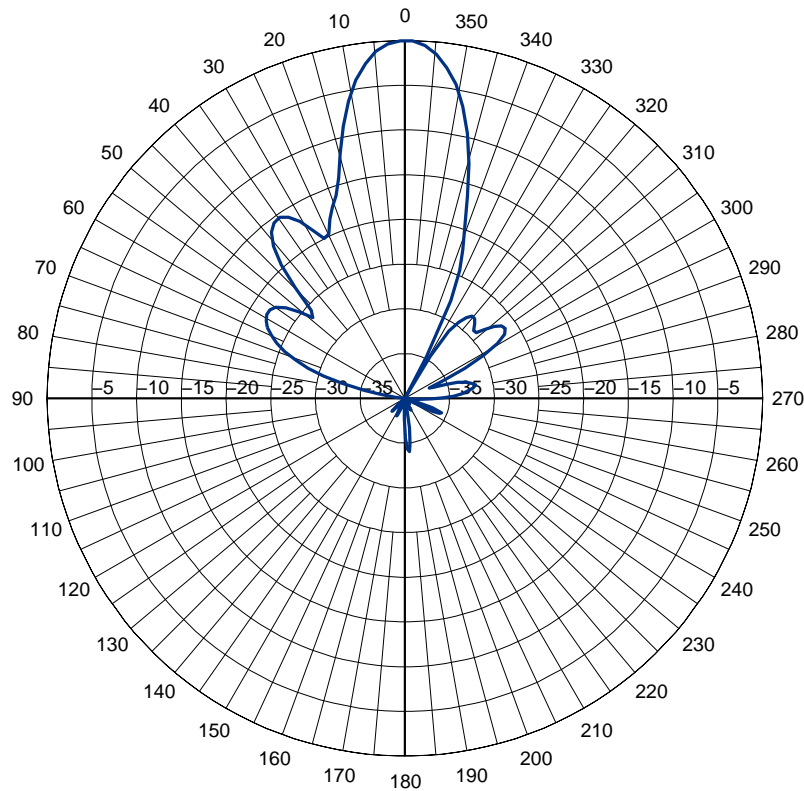
# Specifications

## Electrical Specifications

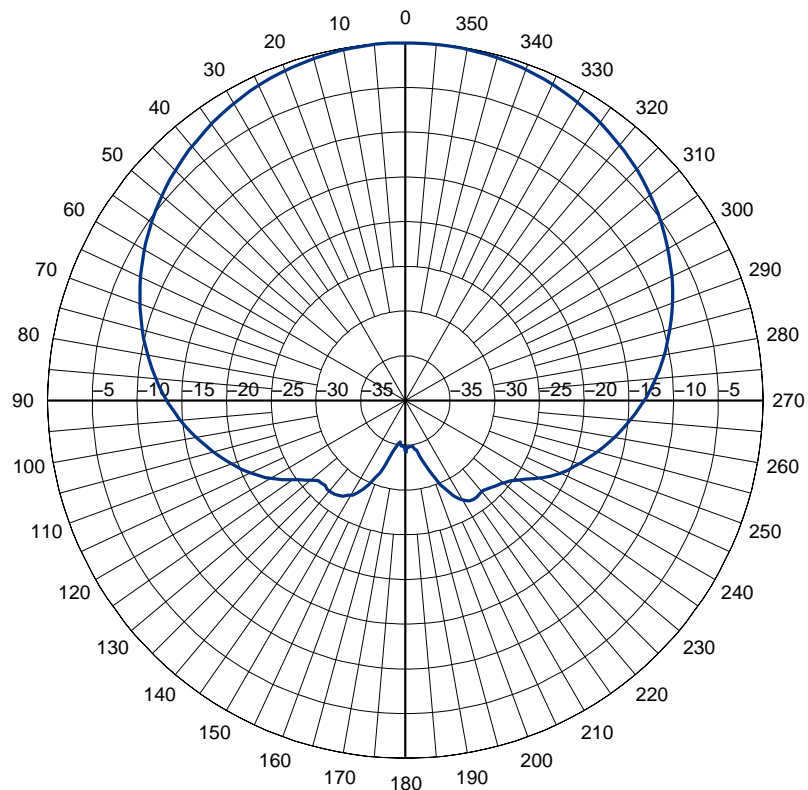
Model #	Frequency Range	Nominal Gain	Front-to-Back Ratio	Horizontal Plane Beamwidth	E-Plane Beamwidth	Nominal Isolation (radially spaced 120° apart)	VSWR
MSPDBDI244914NF	2400-2500 MHz	14 dBi +/- 0.5	> 32 dB	90°	15°	- 68 dB	< 1.5:1
	4925-5925 MHz	14 dBi +/- 0.5	> 32 dB	120°	8°	- 68 dB	< 1.7:1

## Mechanical Specifications

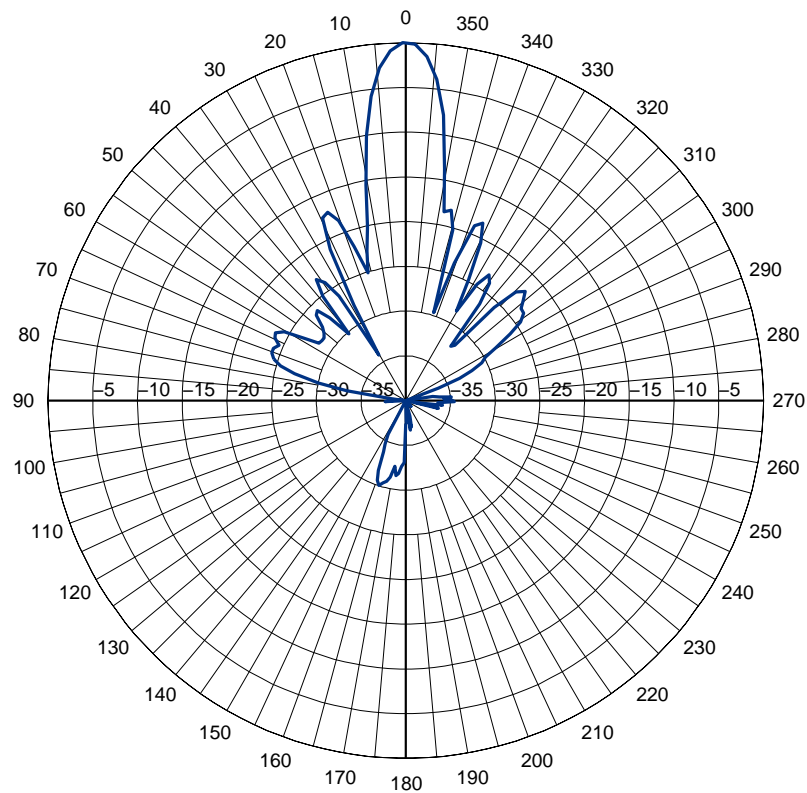
Model #	Rated Wind Velocity	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area	Temperature Range	Dimensions	Weight
MSPDBDI244914NF	125 mph	67 lbf	0.68 ft <sup>2</sup>	-30°C to +75°C	36" L x 5.5" W x 3" D (91.4 x 13.9 x 7.6 cm)	6 lbs (13.2 kg)



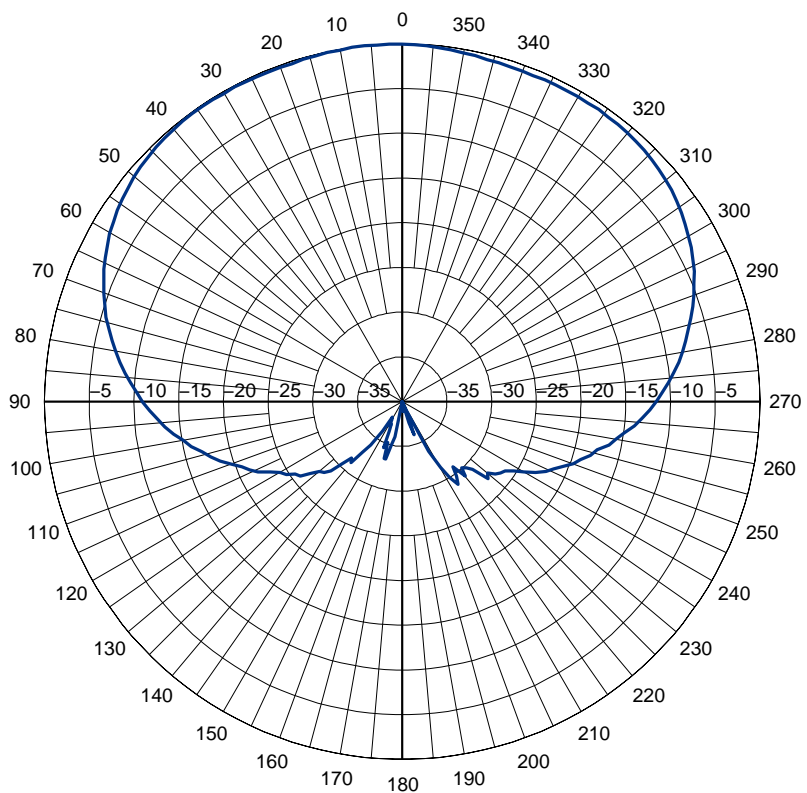
MSPDBDI244914NF 2.4 GHz Elevation Cut



MSPDBDI244914NF 2.4 GHz Azimuth Cut



**MSPDBDI244914NF 5.8 GHz Elevation Cut**



**MSPDBDI244914NF 5.8 GHz Azimuth Cut**