

# Low Broadband Antenna

90° 2.6 m x-polarized FET Antenna

Part Number:  
7488.00

Horizontal Beamwidth: 90°  
Gain: 16.5dBi / 14.4dBd

Electrical Downtilt: 0°  
Connector Type: 7/16 DIN female

806-960 MHz

The Powerwave broadband dual polarized antenna is designed with a slant  $\pm 45^\circ$  configuration having equal signal strengths on both polarizations. The design ensures the highest possible diversity gain, isolation and cross polarization discrimination. Its slim design and sophisticated electrical performance, typical of Powerwave antennas, ensures maximum efficiency as well as stable pattern over the entire frequency range. This design relies on leading-edge patch technology fed via a micro strip PCB network. Special attention has been paid to ensure antenna pattern peak performance, making this an excellent choice for optimal cell planning.



## Key Benefits

- Excellent broad- and multi-band capabilities
- Polarization purity maximizes diversity gain
- Excellent pattern performance and high gain over frequency
- Guaranteed passive intermodulation performance
- Light, slim and robust design

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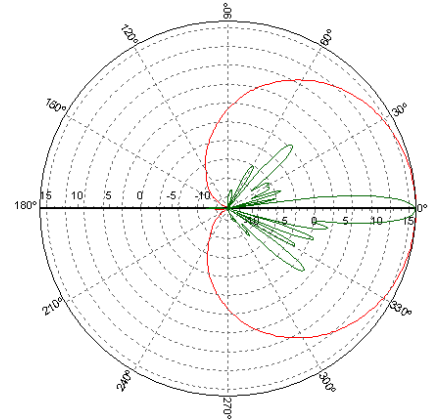
# 806-960 MHz

## Low Broadband Antenna

### Electrical Specifications

Frequency Range (MHz)	806 - 960
Polarization	Dual slant $\pm 45^\circ$
Gain (dBi) / (dBd)	15.8 / 13.7
Nominal Impedance (Ohm)	50
VSWR (824-960 MHz)	< 1.4:1
Isolation	> 30
Horizontal -3 dB beamwidth	90°
Vertical -3 dB beamwidth	8°
Electrical downtilt	0°
Front-to-back ratio, co-polar (dB)	>30
First upper sidelobe suppression (dB)	>20
Maximum input power (W)	600
IM, 3rd order, @2x43dBm (dBc)	<-150

All specifications are subject to change without notice.  
Contact your Powerwave representative for complete performance data.



Typical Horizontal and Vertical 7488.00 Patterns

### Mechanical Specifications

Connector Type	2 x 7/16 DIN female
Connector Position	Bottom
Dimensions, HxWxD	2600x280x125mm (8'8"x11"x5")
Weight Brackets	19 kg
Wind Load, Frontal, 42m/s Cd=1	636 N (143 lbf)
Survival Wind Speed	70m/s (156 mph)
Lightning Protection	DC grounded
Radome Material	GRP
Radome Color	Light Gray
Packing Size	2800x355x255mm (9'4"x1'2"x10")
Shipping Weight	20 kg

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