65° 2.0 m MET Antenna

Part Number: 7752.00

Horizontal Beamwidth: 65° Gain: 15.9/17.5 dBi

| Electrical Downtilt: Adjustable | Connector Type: 7/16 DIN female

The Powerwave dual band dual polarized broadband antenna has individual adjustable electrical downtilt per band. Four connector ports allow separate tilts on each frequency band and ensure the use of diversity concepts. The phase shifter technology, based on a patented sliding dielectric, minimizes intermodulation distortion and maximizes efficiency. The slant +/- 45° dual polarization system provides the independent fading signals needed for achieving top-quality coverage via diversity concepts. The Powerwave Broadband antenna design is based on a patented stacked aperture-coupled patch technology, which provides high isolation performance and a wide VSWR bandwidth. The antennas have superior radiation patterns due to a unique reflector design which provides a very small variation of the –3dB horizontal beam width over the frequency band as well as a high front-to-back ratio.



Key Benefits

- Excellent broad- and multi-band capabilities
- Polarization purity makes good diversity gain
- Excellent pattern performance and high gain over frequency
- High passive intermodulation performance
- · Light, slim and robust design



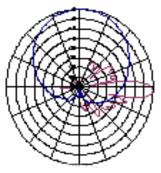




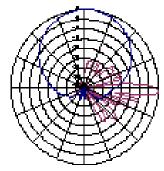


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Electrical Specifications			
Frequency band (MHz)	824-960		1710-2170
Gain, ± 0.5 (dBi)	15.9		17.5
Polarization		Dual linear ±45°	
Nominal Impedance (OHM)		50	
VSWR, 824-960MHz	1.5:1		
VSWR, 1710-2170MHz			1.5:1
Isolation between inputs, 824-960MHz (dB)	30		
Isolation between inputs, 1710-2170MHz (dB)			30
Inter band isolation, MHz (dB)		40	
Horizontal -3 dB beamwidth	$69 \pm 6^{\circ}$		63 ± 7 °
Tracking, Horizontal plane, 824-960MHz, ±60° (d	IB) <1.0		
Tracking, Horizontal plane, 1710-2170MHz, ±60°	(dB)		<2.0
Electrical downtilt range (adjustable)	2° to 9°		0° to 8°
Vertical -3 dB beamwidth	$9.2 \pm 1.0^{\circ}$		6.6 ±1.0°
Sidelobe suppression, Vertical 1 st upper (dB)	> 17,16,15,14		> 17,16,15,14,13 dB
	x=2, 4, 6, 8° MET		x=0, 2, 4, 6, 8° MET
Vertical beam squint	0.8°		0.8°
First null-fill (dB)	< -25		< -25
Front-to-back ratio (dB)	>27		>27
Front-to-back ratio, total power (dB)	>24		>24
Average IM3, 2Tx@43dBm (dBc)	< -153		
Average IM3, 2Tx@43dBm (dBc)			< -153
Average IM7, 2Tx@43dBm (dBc)			< -160
Power Handling, Average per input (W)	300		250
Power Handling, Average total (W)	600		500
All specifications are subject to change without notice. Contact your Powerwave representative for comple			



Typical 800 MHz Horizontal and Vertical 7752.00 Patterns



Typical 1900 MHz Horizontal and Vertical 7752.00 Patterns

Mechanical Specifications

Connector Type 7/16 DIN female

Connector Position Bottom

Dimensions, HxWxD 2033mm x 280mm x 125mm (6'7" x 11"x 5")

Weight Including Brackets

Weigh Excluding Brackets

Wind Load, Frontal, 42m/s Cd=1

Survival Wind Speed

Lightning Protection

Radome Material

19.7kg (44lbs)

16kg (35lbs)

628N (141lbf)

70m/s (156mph)

DC grounded

GRP

Radome Material GRP
Radome Color Light Gray

Packing Size 2175mm x 355mm x 255mm (7'4"x14"x10")

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