High Broadband Antenna

65° 2.0 m MET Antenna

710-2170 MHZ

Part Number: 7722.00

Horizontal Beamwidth: 65°

Gain: 19.5 dBi

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

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 that provides a very small variation of the -3dB horizontal beam width over the frequency band as well as a high front-to-back ratio. Powerwave broadband antennas come with manually adjustable electrical tilt (MET) for tuning flexibility of tilt angles. This design ensures the highest possible cross-polar discrimination value.



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

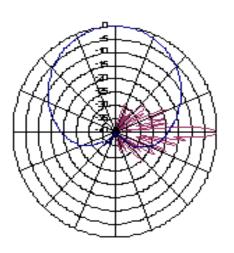




COVERAGE Systems



Electrical Specifications			
Frequency band (MHz) Gain, ± 0.5 (dBi)	1710-1880 19	1850-1990 19.2	1900-2025, 2110-2170 19.7
Polarization Nominal Impedance (Ohm) VSWR		Dual slant ±45° 50	
Isolation between inputs (dB) Horizontal -3 dB beamwidth		1.4:1 >30	
Tracking, Horizontal plane, ±60° (dB) Electrical downtilt range (adjustable)	67 ± 3°	66 ± 2° <1.0	65 ± 3°
Vertical -3 dB Beam width Sidelobe suppression, 1st upper (dB)	4.7 ± 0.3°	0° to 5.5° 4.4 ± 0.2° 3.18.16.16.14 @ 0.1,	4.2° ± 0.3° 2 3 4 5°
Vertical beam squint First null-fill (dB)	210,10	0.4°	2,0,1,0
Front-to-back ratio (dB) Front-to-back ratio, total power (dB)		>30 >27	
Cross-polar discrimination (XPD) 0° (dB) Cross-polar discrimination ±60° (dB)	>18 >20	>20 >17	>21 >12
Power Handling, Average per input (W) Power Handling, Average total (W)		250	
IM3, 2Tx@43dBm	<-153	500 <-153	
IM7, 2Tx@43dBm All specifications are subject to change without notice).		< -160



Typical Horizontal and Vertical 7722.00 Patterns

Mechanical Specifications

Connector Type 7/16 DIN female

Contact your Powerwave representative for complete performance data.

Dimensions, HxWxD 1934x167x89.5mm (6'4"x6.6"x3.5")

Weight Including Brackets 12.6 kg (27.7 lbs) Wind Load, Frontal, 100 mph Cd=1 412 N (92.6 lbf) Survival Wind Speed 70m/s (156 mph) Lightning Protection DC Grounded

Radome Material ASA

Radome Color Grey (RAL 7035 on all visible plastic part)

Packing Size 2105x200x200mm (6'11"x8"x8") Pole Clamps, Panning Mechanism Mounting

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