

MT-261002/H

500 – 3000 MHz 3.5 dBiL Wide Band Blade Antenna

Electrical

Frequency	0.5-3 GHz	
Gain-measured on 1.2 m diameter circular ground plane	3.5 dBiL typ	
VSWR- measured on 1x2 m ground plane	2.5:1 max	
3 dB Azimuth Beamwidth	Omni Directional	
3 dB Elevation Beamwidth	25° - 50° typ Quarter Wave Monopole	
Polarization	Vertical	
Phase Matching Between Antennas at Bore sight measured on 1x2 m ground plane	Frequency	Phase Matching
	0.5 ÷ 1.5 GHz	±2°
	1.5 ÷ 2.0 GHz	±3°
	2.0 ÷ 2.5GHz	±4°
2.5 ÷ 3.0GHz	±8°	
Input Impedance	50 ohm	
Input Power	250 W CW	

Mechanical

Dimensions (LxWxD)	101.6 x 117.8 x 16.7 mm
Orientation	Vertical
Weight	9 oz max 255 gm
Connector	N Type Female
Radome	Fiberglass
Base Plate	Aluminum with chemical conversion coating
Color	Polyurethane per MIL-C-83286 color 37038 per FED-STD-595 Color Black

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	MIL-STD-810E Method 501.3 Proc.I&II	24 h	-54°C	
High Temperature	MIL-STD-810E Method 501.3 Proc.I&II	96 h	+100°C	
Temperature Altitude	MIL-STD-810C Method 504.2 Proc.I	33 h	-57°C +100°C 40,000 ft	
Temperature Shock	MIL-STD-810E Method 503.3	2 h	-45°C+100°C	3 Cycles
Vibration	MIL-STD-810F Method 514.5	3x1hours/axis	Grms=23G Fig 514.5C-8	
Shock Mechanical	MIL-STD-810D Method 516.4 Proc.I	11 msec/axis	3 x 18 g/axis	
Humidity	MIL-STD-810E Method 507.3 Proc.I 98% RH at 45°C	240 h		98% 10 Cycles of 24 hours
Corrosion Salt Spray	MIL-STD-810E Method 509.3 Proc.I	48 h	5% NaCl	
Side Pressure			2.3 Atm	
Acceleration	MIL-STD-810E Method 513.4 Proc.I		13G	
Rain		30 mm	10 cm/hr 18 m/sec	30 mm
Sand	MIL-STD-810E Method 510.3 Proc.II			
Dust	MIL-STD-810E Method 510.3 Proc.I			
Solar Radiation				
Fungus	MIL-STD-810E Method 508.4			
Wind Speed			0.85 mach @ sea level	

* Accessories: conductive gasket MP42186300M supplied separately.

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