

MT-2045/D

400 – 1200 MHz Airborne Blade Antenna

Electrical

Frequency	400 – 1200 MHz					
Peak Gain	MHz	400	450	500	1000	1200
	dBi min	2	2.5	4	4	1.5
VSWR		4:1	4:1	2.5:1	2.5:1	3:1
Gain @ ±65° Elevation	MHz	400	500	750	1000	1200
	dBi	2	3	1.5	2	1
Azimuth Beam Width	Omni					
-3 dB Elevation Beam Width	400 MHz	500 – 750 MHz		750 – 1200 MHz		
	65° min	40° min		35° min		
-10 dB Elevation Beam Width	132° min	75° min		60° min		
Polarization	Vertical					
Power Handling	Receive only					

Mechanical

Dimensions	101.5 x 54.6 x 112.3 mm
Weight	310 g
Connector	N-Type Female
Color	MIL-C-83286 Gray # 36375
Base Plate	Aluminum with chemical conversion coating

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	+85° C	
Temperature/Altitude	MIL-STD-810C Method 504.2 Proc. I	33 h	-57° to 85° C	50,000 ft
Temperature Shock	MIL-STD-810E Method 503.3	2 h	-45° to 85° C	3 Cycles
Vibration	MIL-STD-810D Method 514.3 Cat. 4	3 X 1 h/axis	Li=0.6g ² /Hz F1 68 Hz	
Shock	MIL-STD-810D Method 516.4 Proc. I	11 msec/axis		3 x 20 g/axis
Humidity	MIL-STD-810E Method 507.3 Proc. I 98% @ 45°	240 h	98% 10 cycles of 24 h	
Salt Spray	MIL-STD-810E Method 509.3 Proc. I	48 h	5% Nacl	
Side Pressure			6 PSI	
Sand	MIL-STD-810E Method 510.3 Proc. II			
Dust	MIL-STD-810E Method 510.3 Proc. I			
Solar Radiation	MIL-STD-810E Method 505.3 Proc. I		7 cycles of 24 h	
Acceleration	MIL-STD-810E Method 513.4 Proc. I			13.5 g all axis
Rain		30 mm	10 cm/hr 18 m/sec Each side	
Fungus	MIL-STD-810E Method 508.4			
Endurance	MIL-STD-810D Method 514.4 Fig. 514.4-7 a	3 X 1 h/axis	L1=2.4 g ² /Hz F1=687 Hz	

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