

MT045D08V0

2 – 7 GHz 7.5 dBi Horn Antenna

Electrical

Frequency	2 – 7 GHz		
Gain	5 dBi min @ 2 GHz 8 dBi min @ 3 GHz 8 dBi min @ 4 GHz 10 dBi min @ 5 GHz 12 dBi min @ 7 GHz		
VSWR	2:1 typ 2.3:1 max		
3 dB Beam Width	Frequency	Azimuth	Elevation
	2 GHz	50° min	90° min
	3 GHz	30° min	48° min
	4 GHz	30° min	40° min
	5 GHz	30° min	40° min
7 GHz	25° min	30° min	
Polarization	Vertical		
Input Impedance	50 ohm		
Input Power	5 W CW		
Phase Matching (relative to reference antenna)	±4.5° @ 2 GHz ±6.5° @ 7 GHz		

Mechanical

Dimensions WxHxL	125 x 110 x 160 mm
Weight	750 gr
Connector	SMA Female

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	MIL-STD-810E Method 502.2 Procedure I & II	24 h	-54° C	
High Temperature	MIL-STD-810E Method 502.2 Procedure I & II	96 h	+85° C	
Temp. Altitude	RTCA/DO 160E Section 4	14 h		40,000 ft
Random Vibration	RTCA/DO 160E Section 8	1 h/axis 3 axis		5.85 g rms
Mechanical Shock	RTCA/DO 160E Section 7	11 msec		6 g
Crash Safety	RTCA/DO 160E Section 7	11 msec		20 g
Salt Spray	MIL-STD-810E Method 509.3 Procedure I	96 h		
Humidity	MIL-STD-810E Method 507.3 Procedure I 98% RH @ 45°	240 h		98% RH 10 cycles of 24 h
Acceleration	MIL-STD-810E Method 513.4 Procedure I			13 g all axis

This document and the information contained in it are proprietary and confidential to MTI. No person is allowed to copy reprint reproduce or publish any part of this document nor disclose its contents to others nor make any use of it nor allow or assist others to make any use of it, unless by the prior written express authorization of MTI and then only to the extent authorized.