

# MT-251007

0.5 – 2.0 GHz, 7.5 dBi Wide Band Cavity Backed Dipole Antenna

## Electrical

Frequency	700-2000 MHz , Extended band 500 to 2000 Mhz	
Gain	F(MHz)	dBi
	0.5	-3
	0.7	4.5
	1.0	9
	1.5	9
	2.0	9
VSWR	3.5:1 max 700 to 2000 MHz	
3 dB Azimuth and Elevation Beam Width	60° typ	
F/B ratio	>25 dB	
Polarization	Linear Vertical ,Horizontal or Slant	
Cross Polarisation Discrimination At Boresight	>15 dB	
Input Impedance	50 ohm	
Input Power	1 watt	
Lightning Protection	DC Grounded	

## Mechanical

Dimensions (Dia x t)	360 x 70 mm max
Weight	1.45 Kg max
Connector	SMA female
Base Plate	Aluminum with chemical conversion coating
Paint	Polyurethane GRAY 16480 Per FED-STD-595

## Environmental

Test	Standard	Duration	Temperature	Notes
High/Low Temperature	MIL-STD-810, method 501 Procedure II.	72 h	-40°& +70°C	
Vibration	MIL-STD-167-1	60 min/axis		with a maximum frequency of 33 Hz
Shock Mechanical	MIL-S-901.	3 Shock in each direction		25 G in horizontal direction 50G vertical direction
Humidity	MIL-STD-810, method 507	144 h		95%
Water Tightness	IEC 529			*
Solar Radiation	ASTM G53			*
Flammability	UL 94			Class V2
Salt Spray	IEC 68-2-11 Ka	168 h		*
Ice And Snow				*
Wind Speed				*

\* The antenna shall be covered with a suitable radome to provide the antenna protection against the environmental conditions