

# MT-6025/1

2 – 4 GHz Horn Antenna

## Electrical

Frequency	2 – 4 GHz
Peak Gain W.R.T. 45° Pol	13 dBi typ , 13 to 19 dBi over band
Peak Gain W.R.T. Vertical and Horizontal Polarization	10 dBi typ, 10 to 16 dBi over the band
Second Cross Over Gain For Vertical and Horizontal Polarization	-9 dB to -19 dB below peak of beam
VSWR	2 : 1 typ , 2.5 : 1 max
3 dB Azimuth Beam Width	20° - 30°
3 dB Elevation Beam Width	>= 20°
Polarization	45° slant
Sidelobes Level	-18 dB max
V/H Ratio Between Second Cross Over Points	1 dB typ , 2 dB max
Monitor	30 dB ± 6 dB

## Mechanical

Connector	SMA Female
Weight	2.15 Kg max
Dimensions ( L x W x H)	540 x 340 x 187 mm max

## Environmental\*

Temperature	-20°C to +80°C
Humidity	Per MIL – STD – 810E, Method 507.3, Proc I
Salt Fog	Per MIL – STD – 810E, Method 509.3, 5% for a period of 48 hours.
Thermal Cycling	-20°C to +80°C , 5 cycles , 2 hours each
Fungus	Per MIL – STD – 810E, Method 508.4
Altitude	-1,000 to 30,000 ft
Vibration	Random 4 – 100 Hz, 0.01 g <sup>2</sup> /Hz, in 3 axis
Rain	Antennas are not sealed and must be covered with a Radome

\* In accordance with MIL – E – 16400