

MT-809519/S

2 – 6 GHz Constant Beam Width Horn Antenna

Electrical

Frequency	2 – 6 GHz
Peak Gain	9.5 dBi
Gain @ $\pm 15^\circ$ Azimuth	6.5 dBi min
VSWR	2.5 : 1 max 90% Of Band 3.5 : 1 max 100% Of Band
Polarization	45° Slant
Second Cross Over @ $\pm 30^\circ$	12 \pm 3 dB Below Peak
3 dB Azimuth Beam Width	30° $\pm 2^\circ$ 90% Of Band 30° $\pm 3^\circ$ 100% Of Band
3 dB Elevation Beam Width	$\geq 30^\circ$ @ A Min. Gain Of 8 dBi
Peak Gain Tracking	2 dB
Monopulse Gain Tracking *	The monopulse gain tracking of all the elements pairs deviates by less than 2 dB from the mean curve in between the second cross over points
Input Impedance	50 Ω
Input Power	10 W CW

Mechanical

Dimensions (LxWxH)	487 x 370 x 183 mm max
Weight	3 Kg
Connector	SMA Female
Color	Polyurethane GRAY 26373 Per FED-STD-595

Environmental

Storage life	-20°C to +71°C with 95% RH
High temperature	+85° C
Low temperature	-54° C
Altitude	Per MIL-STD-810D, Method 504.1. Proc. I Category 7 up to 40,000 ft.
Thermal shock, operation	Per MIL-STD-810D, Method 503.2, Paragraph 3.2.5.4 (-54°C to +85°C)
Thermal shock, non - operation	Per MIL-STD-810D, Method 503.2, Paragraph 3.2.5.4 (-62°C to +85°C)
Humidity	Per MIL-STD-810D, Method 507.2, Proc. I (“Constant High Humidity”)
Salt fog	Per MIL-STD-810D, Method 509.2, Proc. I
Fungus	Per MIL-STD-810D, Method 508.3
Vibration	Per MIL-STD-810D, Method 514.3, Proc. I, Category 4, paragraph 3.2.5.9. Li=1.26g ² /Hz, F1, F2=2*F2, F3=3*F1, F4=4*F1
Shock,	Per MIL-STD-810D, Method 516.3, Procedure I & V.
Acceleration, Structural	Per MIL-STD-810F Method 513.5 Procedure I, values per table 513.5-I
Acceleration, crash safety	Per MIL-STD-810F Method 513.5 Procedure III, values per table 513.5-III
Explosive Atmosphere	Per MIL-STD-810D, Method 511.2, Proc. I

* Applicable only in circular array of horn.