

**MT-799002/W/A****71 – 86 GHz, 43dBi POINT TO POINT 1 FT DISH ANTENNA****ELECTRICAL**

REGULATORY COMPLIANCE	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 (2010-01) RoHS , CE 0682
FREQUENCY RANGE	71 – 86 GHz
GAIN	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 Class 2, Class 3 43 dBi (min)
VSWR	1.5 : 1 (max) 1.3 : 1 (typ)
POLARIZATION	Plane
3DB ELEVATION BEAMWIDTH	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 Class 2, Class 3 1.2 deg (max)
3DB AZIMUTH BEAMWIDTH	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 Class 2, Class 3 1.2 deg (max)
SIDELobe SUPPRESSION	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 Class 2, Class 3(See Table 1)
F/B RATIO	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 Class 2, Class 3 (See Table 1)
CROSS POLARIZATION	FCC 47CFR101.115 ETSI EN 302 217-4-2 Class 2, Class 3 (See Table 1)
CROSS POLARIZATION DISCRIMINATION	FCC 47CFR101.115 ETSI EN 302 217-4-2 V1.5.1 Class 2, Class 3 25 dB (min)
POWER	10W (max)
INPUT IMPEDANCE	50 (ohm)
MECHANICAL	
DIMENSIONS (D X D)	Ø350 mm (max) X 200 mm (max)
WEIGHT	4kg (max) + Mounting Kit Adapter
MOUNTING KIT	SEE RD41191800C , MT-120032
RADOME MATERIAL	Plastic
INTERFACE	Circular waveguide E Band
OUTLINE DRAWING	RD42825500C

ENVIRONMENTAL

TEST	STANDARD	DURATION	TEMPERATURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-55°C	

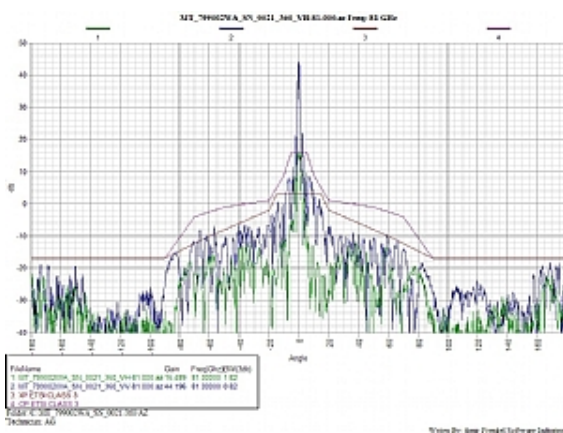
HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
VIBRATION	IEC 60721-3-4	30 min/axis		Random4M3
SHOCK MECHANICAL	IEC 60721-3-4			4M3
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP64
SOLAR RADIATION	ASTM G53	1000h		
SALT SPRAY	IEC 68-2-11 Ka	500h		Operational (96h for no rust)
ICE AND SNOW				25mm Radial
WIND SPEED SURVIVAL OPERATION				220 Km/h 160 Km/h

* IP 64 when antenna installed on the radio enclosure

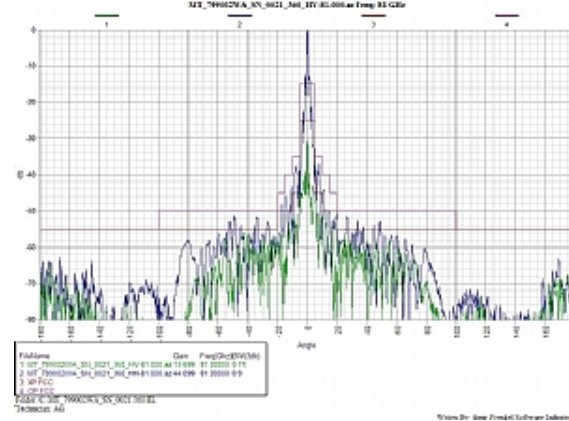
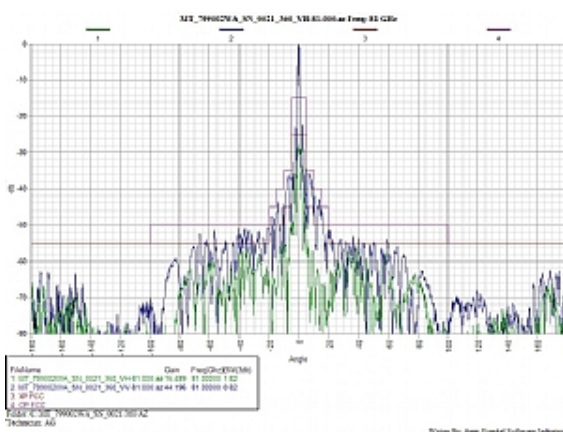
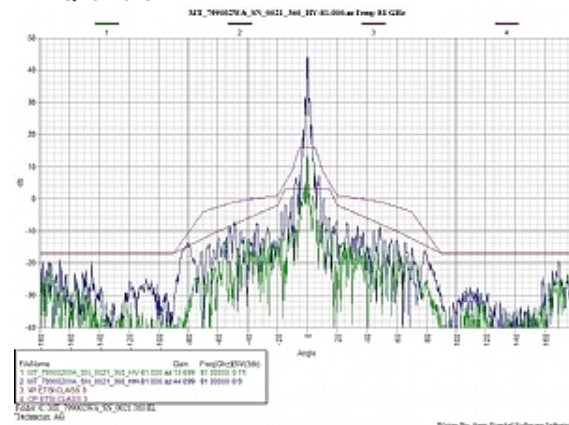
TABLE 1

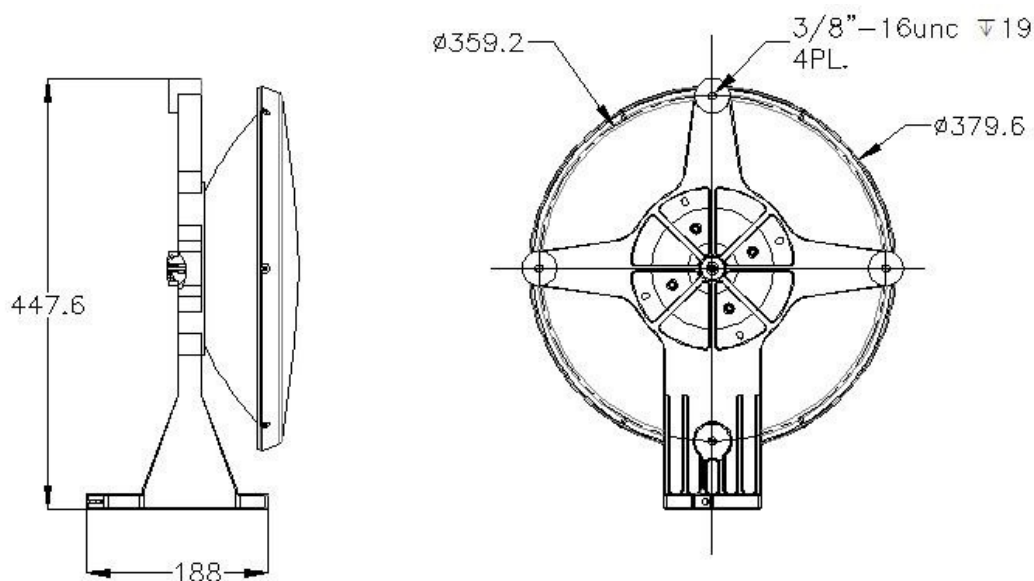
FCC 47CFR 101.115	1.2°-5 °	5 °-10 °	10 ° -15 °	15 ° - 20 °	20 ° -100 °	100 ° -180 °
Co Polar	-28 dBi	-35 dBi	-40 dBi	- 45 dBi	- 50 dBi	- 55 dBi
Cross Polar	-25 dBi	-45 dBi	-50 dBi	-50 dBi	-55 dBi	-55 dBi

**AZIMUTH RADIATION PATTERN MIDBAND
FREQ. 0.76 GHZ**



**ELEVATION RADIATION PATTERN MIDBAND
FREQ. 0.76 GHZ**



NSMA File**RPE File****WAIVER!**

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