

MT1180M50VH

11/80 GHz 34/51 dBi 2 ft Parabolic Antenna

Electrical

Regulatory Compliance	RoHS , CE, ETSI EN 302 217-4 V2.1.1 (2017-05) FCC 47 CFR 101.115,		
Frequency	10.0 – 11.7 GHz 71.0 – 76.0 & 81.0-86.0 GHz		
Gain	Low Band	Mid. Band	High Band
10.0 – 11.7 GHz	33.6 dBi	34.4 dBi	35.0 dBi
71.0-76.0 & 81.0–86.0 GHz	50.0 dBi		51.0 dBi
	10.0 – 11.7 GHz	71.0-76.0 & 81.0-86.0 GHz	
VSWR	2.0:1	1.5 :1	
Polarization	Single or Dual Pol (V+H)		Single or Dual Pol (V+H)
3 dB Azimuth Beam Width	3.1°		0.4°
Side Lobe Suppression	FCC Category B		FCC
Cross Polarization	ETSI Class 3		ETSI Class 3, FCC
F/B Ratio	55 dB		67 dB
XPD	30 dB		30 dB
Isolation			
Low Range WR75 to WR12	80 dB		
High Range WR12 to WR75	25 dB		
Power Handling	10 W		

Mechanical

Dimensions:	
Diameter	Ø 655 mm
Depth	300 mm
Weight	8 kg max
Interface	Circular or rectangular waveguide
Radome	Plastic
Mounting Kit	MT-120032/A, weight 4kg max.

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 60068-2-1	72 h	-55°C	
High Temperature	IEC 60068-2-2	72 h	+71°C	
Temp. Cycling	IEC 60068-2-14	1 h	-45°C +70°C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	EN300 019-2-4 T4.1E	144 h		95%
Water Tightness	IEC 60529			IP67*
Solar Radiation	ASTM G53	1000 h		
Salt Spray	IEC 60068-2-11 Ka	500 h		
Ice And Snow				25mm Radial
Wind Speed	ETSI EN 302 085 V1.1.2			
Survival	Heavy Duty			252 Km/h
Operation	Heavy Duty			164 Km/h

* For the feed & interface to the radio (when radio installed on antenna).

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