

# MT1180M50VH/AV/A

11/80 GHz 35/50 dBi 2 Ft Dish



Electrical				
Regulatory Compliance		ETSI EN 302 217-4 V2.1.1 (2017-05) FCC 47 CFR 101.115 RoHS, CE		
Frequency		10.0 – 11.7 GHz 71 – 76 GHz , 81 – 86 GHz		
Gain		Low Band	Mid. Band	High Band
10.0 – 11.7 GHz		33.6 dBi	35 dBi	35.5 dBi
71 – 76, 81 – 86 GHz		50dBi		51.5 dBi
VSWR				
10.0 – 11.7 GHz		2.0 : 1		
71 – 76, 81 – 86 GHz		1.5 : 1		
3 dB Beam width				
10.0 – 11.7 GHz		3.2°		
71 – 76, 81 – 86 GHz		0.5°		
Polarization		Single or Dual Pol (V + H)		
10.0 – 11.7 GHz		Single or Dual Pol (V + H)		
71 – 76, 81 – 86 GHz				
Side Lobe Suppression		ETSI Class 3 , FCC Category B		
10.0 – 11.7 GHz		ETSI Class 3 , FCC		
71 – 76, 81 – 86 GHz				
F/B Ratio				
10.0 – 11.7 GHz		60 dB		
71 – 76, 81 – 86 GHz		69 dB		
XPD		ETSI Category 2		
10.0 – 11.7 GHz		30 dB		
71 – 76, 81 – 86 GHz		30 dB		
Isolation		80 dB		
WR90 to WR12 @ Low Range		25 dB		
WR12 to WR90 @ High Range				
Input Power		10 W		
Mechanical				
Dimensions		Ø655 mm max		
Depth		300 mm		
Weight		6.2 Kg (max)		
Interface		WR90 or Circular		
10.0 – 11.7 GHz		WR12 or Circular		
71 – 76, 81 – 86 GHz				
Radome		Plastic		
Mounting Kit		MT-120032/A, weight 4.4kg 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			252 Km/h
Survival	HEAVY DUTY			164 Km/h
Operation	HEAVY DUTY			

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

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