

MT1180M50VH/AV

Dual Band 10.7 – 11.7 GHz, 71 - 76 GHz/ 81- 86 GHz



Electrical				
Regulatory Compliance		ETSI EN 302 217-4 V2.1.1 (2017-05) FCC 47 CFR 101.115 RoHS , CE		
Frequency Range		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	34.4 dBi	35 dBi
71 – 76, 81 – 86 GHz		50 dBi		51 dBi
VSWR				
10.0 – 11.7 GHz		2:1		
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				
10.7 – 11.7 GHz		Single or Dual Pol (V + H)		
71 – 76, 81 – 86 GHz		Single or Dual Pol (V + H)		
Side Lobe Suppression				
10.0 – 11.7 GHz		FCC Category B (Design Goal Category A)		
71 – 76, 81 – 86 GHz		FCC Category A		
F/B ratio				
10.0 – 11.7 GHz		55 dB		
71 – 76, 81 – 86 GHz		67 dB		
XPD		ETSI Category 2		
10.0 – 11.7 GHz		27 dB		
71 – 76, 81 – 86 GHz		25 dB		
Isolation				
WR75 to WR12 @ Low Range		80 dB		
WR12 to WR75 @ High Range		25 dB		
WR75 to WR75 & WR12 to WR12 (for Dual Pol antenna)		30 dB		
Input power		10 W max		
Mechanical				
Diameter		Ø 655 mm		
Depth		300 mm		
Weight		8 Kg max		
Interface				
10.0 – 11.7 GHz		WR75		
71 – 76, 81 – 86 GHz		WR12		
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		Random 4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	EN300 019-2-4 T4.1E	144 h		95%
Water Tightness	IEC 60529			IP67 (for feed and radio interfaces)
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

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