

# MT518M49VH

Dual Band 17.7 – 19.7 GHz, 71 – 76/81 – 86 GHz



Electrical				
Regulatory Compliance	ETSI EN 302 217-4-2 V2.1.1, FCC 47 CFR 101.115, RoHS, CE			
Frequency Range	17.7 – 19.7 GHz 71 – 76 GHz, 81- 86 GHz			
Gain	Low Band	Mid Band	High Band	
17.7 – 19.7 GHz	38 dBi	38 dBi	38.5 dBi	
71 – 76, 81 – 86 GHz	49 – 50 dBi		50 – 51 dBi	
VSWR	2 :1 1.5:1			
17.7 – 19.7 GHz	2 :1			
71 – 76, 81 – 86 GHz	1.5:1			
3 dB Beam width	1.8° 0.5°			
17.7 – 19.7 GHz	1.8°			
71 – 76, 81 – 86 GHz	0.5°			
Polarization	Single or Dual Pol. (V+H) Vertical or Horizontal			
17.7 – 19.7 GHz	Single or Dual Pol. (V+H)			
71 – 76, 81 – 86 GHz	Vertical or Horizontal			
Side Lobe Suppression	ETSI EN 302 217-4-2 V2.1.1 Class 3, FCC 47CFR101.115			
Cross Polarization	ETSI EN 302 217-4-2 V2.1.1 Class 3, FCC 47CFR101.115			
F/B Ratio	67 dB			
XPD	27 dB min 25 dB min			
17.7 – 19.7 GHz	27 dB min			
71 – 76, 81- 86 GHz	25 dB min			
Isolation	80 dB 25 dB			
WR42 to WR12	80 dB			
WR12 to WR42	25 dB			
Input Power	10 W max			
Mechanical				
Diameter	Ø 655 mm			
Depth	300 mm			
Weight	8 Kg (max)			
Interface	WR42 or Ø 10.5 mm WR12			
17.7 – 19.7 GHz	WR42 or Ø 10.5 mm			
71 – 76/81- 86 GHz	WR12			
Radome	Polypropylene			
Environmental				
Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72h	-55°C	-
High Temperature	IEC 68-2-2	72 h	+71°C	-
Temp. Cycling	IEC 68-2-14	1h	-45°C +70°C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M5
Shock Mechanical	IEC 60721-3-4	-	-	4M5
Humidity	ETSI EN300-2-4 T4.1E	144h	-	95%
Water Tightness	IEC 529	-	-	IP67 (for feed and radio interfaces)
Solar Radiation	ASTM G53	1000 h	-	-
Salt Spray	IEC 68-2-11 Ka	500h	-	-
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			

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