

MT518M44VH

18/80 GHz 35/47 dBi 1 Ft Parabolic Antenna

Electrical

Regulatory Compliance		ETSI EN 302 217-4-2 V1.5.1 (2010-01) RoHS, CE 0682		
Frequency		17.7 – 19.7 GHz 71 – 76 GHz, 81- 86 GHz		
Gain	Low Range High Range	Low Band 33.5 dBi 45.0 dBi	Mid Band 34 dBi	High Band 35 dBi 47.0 dBi
VSWR	Low Range High Range	1.7:1 typ 2:1 max 1.5:1		
3 dB Beam Width	Low Range High Range	2.8° 0.7°		
Polarization	Low Range High Range	Single or Dual Pol Single or Dual Pol		
Side Lobes Suppression	Low Range High Range	ETSI Class 3, FCC Category B2 ETSI Class 3, FCC		
Cross Polarization	Low Range High Range	ETSI Class 3, FCC ETSI Class 3, FCC		
F/B Ratio	Low Range High Range	ETSI Class 3, FCC Category B2 67 dB ETSI Class 3, FCC 67 dB		
XPD	Low Range High Range	ETSI Category 2, 30 dB 30 dB		
Isolation				
WR42 to WR12	Low Range	80 dB		
WR42 to WR12	High Range	25 dB		
Input Power		10 W max		

Mechanical

Dimensions	Ø385 x 150 mm depth		
Weight	4.6 kg max		
Interface			
Low Range	WR42 or circular		
High Range	WR12 or circular		
Radome	Plastic		
Mounting Kit	MT-120032/A		

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		Random 4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Solar Radiation	ASTM G53	1000 h		
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25 mm Radial
Wind Speed	Survival			252 Km/h
	Operation			164 Km/h

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