

MT502M44VH

15/80 GHz 34/47 dBi 1 ft. Parabolic Antenna

Electrical

Regulatory Compliance	ETSI EN 302 217-4 V2.1.1 (2017-05) FCC 47 CFR 101.115 RoHS , CE			
Frequency	Low Range	14.4 – 15.35 GHz		
	High Range	71 – 76 GHz, 81 – 86 GHz		
Gain	Low Range	Low Band	Mid. Band	High Band
	High Range	31 dBi	33 dBi	41.0 dBi
VSWR	Low Range	1.5:1 typ, 1.7 : 1 max		
	High Range	1.5 : 1		
3 dB Beam width	Low Range	3.6 deg		
	High Range	0.7 deg		
Polarization	Low Range	Single or Dual Pol (V + H)		
	High Range	Single or Dual Pol (V + H)		
Side lobe suppression	Low Range	ETSI Class 3		
	High Range	ETSI Class 3, FCC		
Cross polarization	Low Range	ETSI Class 3		
	High Range	ETSI Class 3, FCC		
F/B ratio	Low Range	ETSI Class 3, 67 dB		
	High Range	ETSI Class 3, FCC, 67 dB		
XPD	Low Range	ETSI Category 2, 27 dB		
	High Range	25 dB		
Isolation WR42 to WR12	Low Range	80 dB		
	High Range	25 dB		
Input power	10 W			

Mechanical

Dimensions	Diameter:	Ø385 mm max
	Depth:	150 mm
Interface	Low Range	WR62 or circular Ø10.5 mm
	High Range	WR12 or circular Ø3.175 mm
Weight	4.6 Kg	
Radome	Plastic	
Mounting Kit	MT-120032/A	

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
Operational	Heavy Duty			

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

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