

# MT536M49VH

23/80 GHz 40/50 dBi 2 Ft Parabolic Antenna

## Electrical

Regulatory Compliance		ETSI EN 302 217-4 V2.1.1 (2017-05), FCC 47 CFR 101.115, RoHS, CE 0682		
Frequency		21.2 – 23.6 GHz 71 – 76 GHz, 81- 86 GHz		
Gain	Low Range	Low Band	Mid Band	High Band
	High Range	39.5 dBi	40 dBi	41 dBi
VSWR	Low Range	2:1 max		51.0 dBi
	High Range	1.5:1		
3 dB Beam Width	Low Range	1.7°		
	High Range	0.5°		
Polarization	Low Range	Single or Dual Pol		
	High Range	Single or Dual Pol		
Side Lobes Suppression	Low Range	ETSI Class 3, FCC Category A		
	High Range	ETSI Class 3, FCC		
Cross Polarization	Low Range	ETSI Class 3, FCC		
	High Range	ETSI Class 3, FCC		
F/B Ratio	Low Range	ETSI Class 3, FCC 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 max		

## Mechanical

Dimensions	Ø655 x 300 mm depth
Weight	6.8 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			IP64
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

This document and the information contained in it are proprietary and confidential to MTI. No person is allowed to copy reprint reproduce or publish any part of this document nor disclose its contents to others nor make any use of it nor allow or assist others to make any use of it, unless by the prior written express authorization of MTI and then only to the extent authorized.