

MT536M49VH

Dual Band 21.2 – 23.6 GHz, 71 – 76/81 – 86 GHz



Electrical				
Regulatory Compliance		ETSI EN 302 217-4-2 V2.1.1, FCC 47CFR101.115, RoHS, CE		
Frequency Range		21.2 – 23.6 GHz 71 – 76, 81- 86 GHz		
Gain	Low Band	Mid Band	High Band	
21.2 – 23.6 GHz	39.5 dBi	40 dBi	40.5 dBi	
71 – 76/81- 86 GHz	49 – 50 dBi		50 – 51 dBi	
VSWR				
21.2 – 23.6 GHz	2:1			
71 – 76/81- 86 GHz	1.5 :1			
3 dB Beam width				
21.2 – 23.6 GHz	1.7°			
71 – 76, 81- 86 GHz	0.5°			
Polarization				
21.2 – 23.6 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				
21.2 – 23.6 GHz	27 dB			
71 – 76, 81- 86 GHz	25 dB			
Isolation				
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				
21.2 – 23.6 GHz	WR42 or Ø 9 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			

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.

(C) COPYRIGHT – MTI WIRELESS EDGE LTD.

MTI Wireless Edge Ltd.

11 Hamelacha St., Afek Industrial Park, Rosh Ha'ayin 48091 Israel
Tel: +972-3-9008900, Fax: +972-3-9008901

sales@mtiwe.com | www.mtiwe.com