

MT518M49VH/AV/A

18/80 GHz 38/50 dBi 2 Ft Dish



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	39 dBi	
71 – 76, 81 – 86 GHz	50 dBi		51 dBi	
VSWR				
17.7 – 19.7 GHz	2 :1			
71 – 76, 81 – 86 GHz	1.5:1			
3 dB Beam width				
17.7 – 19.7 GHz	1.8°			
71 – 76, 81 – 86 GHz	0.5°			
Polarization				
17.7 – 19.7 GHz	Single or Dual Pol (V + H)			
71 – 76, 81 – 86 GHz	Single or Dual Pol (V + H)			
Side Lobe Suppression	ETSI Class 3, FCC			
Cross Polarization	ETSI Class 3, FCC			
F/B Ratio	ETSI Class 3, FCC 67 dB			
XPD				
17.7 – 19.7 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				
17.7 – 19.7 GHz	WR42 or circular			
71 – 76/81- 86 GHz	WR12 or circular			
Radome	Plastic			
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: Survival Operation	ETSI EN 302 085 V1.1.2 Heavy Duty Heavy Duty			252 Km/h 164 Km/h

Rev
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