

MT-182011/NV

405 - 450 MHz 8 dBi Subscriber Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682		
Frequency	405-450 MHz		
Gain	8 dBi min @ 405 – 410 MHz	8 dBi min @ 410–445 MHz	7 dBi min @ 445 – 450 MHz
VSWR	2:1 typ 2.5:1 max @ 405 – 415 MHz	1.5:1 typ 1.7:1 max @ 415 – 440 MHz	2:1 typ 2.5:1 max @ 440 – 450 MHz
3 dB Beam Width	Azimuth: 70° typ Elevation: 68° typ		
Polarization	Linear Vertical		
Cross Polarization Azimuth	-14 dB max @ 405 – 410 MHz -17 dB max @ 410 – 425 MHz -19 dB max @ 425 – 440 MHz at 0±90° -15 dB max @ 425 – 440 MHz at ±90 to ±180° -15 dB max @ 440 – 450 MHz at 0±90° -12 dB max @ 440 – 450 MHz at ±90 to ±180°		
Cross Polarization Elevation	-18 dB max		
F/B Ratio	405-410 MHz @ -14dB max 410-450 MHz @ -18dB max		
Input Impedance	50 ohm		
Input Power	6 W max		
Lightning Protection	DC Grounded		

Mechanical

Dimensions	370 x 370 x 40 max
Weight	2 kg max
Connector	N-type Female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating

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
Thermal Shock Non-Operation			-30° C to +70° C	Ramp 30°C/min
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67*
Dust Resistance				IP67*
Solar Radiation	ASTM G53	1000 h		
Ozone Resistance	ETSI 300			
Flammability	UL 94			Class HB
Quasi Random Vibration			20 g rms for 4 hours	
Vehicle Vibration Operating	1 g rms, 10-500 Hz, in 3 axis		6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.	
Mechanical Shock Operating	10g, 11 msec, half sine pulse			

* For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

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.

11 Hamelacha st. Afek Industrial Park, Rosh-Ha'AYin 4809121 | Tel. +972.3.9008900 | Fax. +972.3.9008901