

MT-953018/NVD

2.3–2.7/4.9–5.875 GHz, 12/13 dBi Dual Band Triple Pol Directional Antenna



Wireless Edge
Antenna Solutions
An Mti Company

Electrical

Regulatory Compliance	RoHS , CE 0682		
Frequency Range	2.3 – 2.7 GHz	4.9 – 5.875 GHz	
Polarization	Vertical and Dual Slant $\pm 45^\circ$		
VSWR	2.0:1		
Peak Gain	Port V Ports $\pm 45^\circ$	12.0 \pm 1.0 dBi 10.5 \pm 0.5 dBi	11.5 \pm 1 dBi @ 4.9-5.15 GHz 12.5 \pm 1.0 dBi @ 5.15-5.875 GHz
Azimuth Beam Width	Port V 54° typ Ports $\pm 45^\circ$ 77° typ	Port V 28° typ Ports $\pm 45^\circ$ 55° typ	
Elevation Beam Width	Port V 32° typ Ports $\pm 45^\circ$ 27° typ	Port V 16° typ Ports $\pm 45^\circ$ 15° typ	
Azimuth Side Lobes level			Port V -8 dB typ
Elevation Side Lobes level	-12 dB typ	Port V -8 dB typ Ports $\pm 45^\circ$ -13 dB typ	
Azimuth Cross Polarization	Port V -18 dB typ Ports $\pm 45^\circ$ -16 dB typ	-13 dB typ	
Elevation Cross Polarization	Port V -20 dB typ Ports $\pm 45^\circ$ -16 dB typ	Port V -18 dB typ Ports $\pm 45^\circ$ -13 dB typ	
Beam Squint Azimuth	Port V $\pm 5^\circ$ typ Ports $\pm 45^\circ$ 2.3-2.4 GHz $\pm 15^\circ$ typ 2.4-2.7 GHz $\pm 10^\circ$ typ		
Beam Squint Elevation	$\pm 5^\circ$ typ	$\pm 5^\circ$ typ	
Isolation	28 dB min		
F/B Ratio	25 dB min		
Input Impedance	50 ohm		
Input Power	6 W max		
Lightning Protection	DC Grounded		

Mechanical

Dimensions	305 x 305 x 25 mm max
Weight	1.2 kg max
Connector	3 x N-Type Female
Radome	Plastic P.C RAL-9002
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
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			IP67
Solar Radiation	ASTM G53	1000 h		
Flammability	UL 94			CLASS HB
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25 mm Radial
Wind Speed	Survival Operation			220 Km/h 160 Km/h
Wind Load Survival	Front Thrust Side Thrust			26.6 kg 2.2 kg

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