

MT-262006/TRH/A/K/F

902 - 928 MHz 9 dBic RHCP Reader Antenna



Wireless Edge

Antenna Solutions

An MTI Company

Electrical

Regulatory Compliance	RoHS , CE 0682
Frequency	902-928 MHz
Gain	9 dBic min; 10 dBic max Linear gain 7 dBi max
VSWR	1.3:1 max
3 dB Beam Width	Azimuth: 63° typ Elevation: 63° typ
Polarization	RHCP
Side Lobes Level @ 90°	-16 dB max
Axial Ratio At Boresight	4 dB max
F/B Ratio	-18 dB max -20 dB typ
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions	305 x 305 x 25 max
Orientation	Rectangular
Weight	1.2 kg max
Connector	Reverse Polarity TNC Female
Radome	Plastic UV Resistant per ETSI 300
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			-30°C to +70°C	Ramp 30°C/min
Non-Operation				
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
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25mm Radial
Wind Speed Survival				220 Km/h
Operation				160 Km/h
Wind Load Survival Front Thrust				26.8 kg
Side Thrust				2.2 kg
Quasi Random Vibration				20g rms for 4 hours
Vehicle Vibration	1g rms, 10-500 Hz, in 3 axis		6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.	
Operating				
Mechanical Shock	10g, 11 msec, half sine pulse			
Operating				

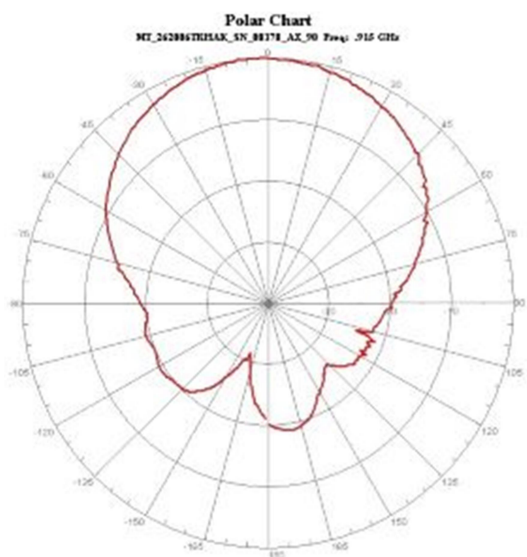
* For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

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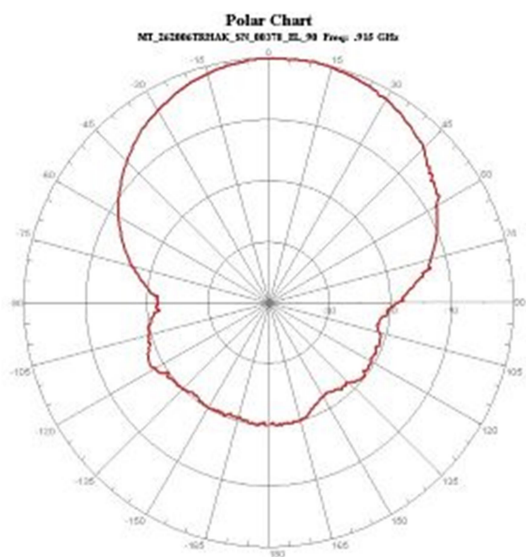
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Azimuth Radiation Pattern (2D):



Elevation Radiation Pattern (2D):



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