

# MT-262013/TRH/A/K

902 – 928 MHz 7.5 dBic Reader Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	902 – 928 MHz
Gain	7.5 dBic min
VSWR	1.3:1 max
3 dB Beam Width	Azimuth: 70° ± 3° Elevation: 71° ± 1°
Polarization	RHCP
Sidelobes Level and Front to Back	-19 dB max
Axial Ratio	1 dB typ , 1.3 dB max @ Boresight 2 dB typ , 3.5 dB max @ 3 BeamWidth
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions L x W x D	190 x 190 x 30 mm max
Orientation	Rectangular
Weight	0.8 Kg max
Connector	Reverse polarity TNC
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 to +70°C	3 Cycles
Thermal Shock Non-Operating			-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		
Salt Spray	IEC 68-2-11 Ka	500 h		
Ozone Resistance	ETSI 300			
Quasi Random Vibration				20 g rms for 4 hours
Vehicle Vibration Operating	1g rms, 10-500 Hz, in 3 axis	6 hours total, 2 h in each axis.		Accelerated wear – an additional 50 h 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

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