

# MT-262011/TRH/A/K

902 – 928 MHz 8.5 dBic RHCP Reader Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	902 – 928 MHz
Gain	8.5 dBic min , 9.5 dBic max
VSWR	1.5:1 max, 1.3:1 typ
3 dB Beam Width	Azimuth: 63° Elevation: 68°
Polarization	RHCP
Side lobes Level @ 90°	-14 dB max
Axial Ratio at Bore sight	4 dB max , 3 dB typ
F/B Ratio	-18 dB typ
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions L x W x D	260 x 260 x 25 mm max
Orientation	Rectangular
Weight	1.2 Kg max
Connector	Reverse polarity TNC
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 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		
Ozone Resistance	ETSI 300			
Flammability	UL94			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				26.8 Kg 2.2 Kg
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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