

# MT-262009/NRH/K

950 – 956 MHz 8.5 dBic RHCP Reader Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	950 – 956 MHz
Gain	8.5 dBic min , 10 dBic max
VSWR	1.5:1 max
3 dB Beam Width	63° typ
Polarization	RHCP
Sidelobes Level @ 90°	-16 dB max
Axial Ratio at Boresight	3 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 L x W x D	305 x 305 x 25 mm max
Orientation	Rectangular
Weight	1.2 Kg max
Connector	N-type
Radome	Plastic UV Resistant Per ESTI 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		
Ozone Resistance	ETSI 300			
Flammability	UL 94			Class HB
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice and Snow				25 mm Radial
Wind Speed:	Survival			220 Km/h
	Operation			160 Km/h
Wind Load	Front Thrust			26.8 kg
Survival:	Side Thrust			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

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.