

# MT-242044/N/K

902 – 928 MHz, 8 dBi Reader Antenna



## Electrical

Regulatory Compliance	RoHS , CE 0682
Frequency	902 – 928 MHz
Gain	7.5 dBi min 8.5 dBi max
VSWR	1.3 :1 typ 1.35 : 1 max
3 dB Beam Width – AZ	72° typ
3 dB Beam Width – EL	73° typ
Polarization	Linear Vertical or Horizontal
F/B Ratio	-16 dB max
Lightning Protection	DC Grounded
Cross Polarization Azimuth	-12 dB max
Cross Polarization Elevation	-17 dB max
Input Impedance	50 Ohm
Input Power	6 W max

## Mechanical

Dimensions	190 x 190 x 30 max
Weight	0.7 kg max
Connector	N-Type female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating.
Mounting Kit	MT-120018/A

## 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 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		
Quasi Random Vibration				20g rms for 4 hours
Vehicle Vibration Operating	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.
Mechanical Shock Operating	10g, 11 msec, half sine pulse			
Wind Speed Survival				220 Km/h
Operational				160 Km/h
Wind Load Survival				
Front Thrust				10 Kg
Side Thrust				1.6 Kg

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

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