

MT-242027/NRH/K

865 – 870 MHz 8.5 dBic RHCP Reader Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	865 – 870 MHz
Gain	8.5 dBic min , 9.5 dBic max
VSWR	1.3:1 max
3 dB Beam Width	65° typ
Polarization	RHCP
Sidelobes Level @ 90°	-12 dB max
Axial Ratio at Boresight	2 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	260 x 260 x 30 mm max
Orientation	Rectangular
Weight	1 Kg max
Connector	N – type
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		
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 Survival: Front Thrust				26.8 kg
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

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