

MT-243017/NRH/K

865 – 870 MHz 11 dBic RHCP Reader Antenna



Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	865 – 870 MHz
Gain	11 dBic min 12 dBic max
VSWR	1.5:1 max, 1.3:1 typ
Azimuth 3 dB Beam Width	30° typ
Elevation 3 dB Beam Width	62° typ
Polarization	RHCP
Side Lobes Level @ ±90°	-12 dB max, -15 dB typ
Axial Ratio 3 dB Beam Width	3 dB max
F/B Ratio	-20 dB typ
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions LxWxD	650 x 320 x 32 mm max
Orientation	Rectangular
Weight	2.8 kg max
Connector	N-type Female
Radome	Plastic UV resistant per ETSI 300

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	
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
Quasi Random Vibration				20g 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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