

MT-243008/NRLH

865 – 870 MHz 8.5 dBic Dual RHCP + LHCP Reader Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	865 – 870 MHz
Gain	8.5 dBic min
VSWR	1.3:1 typ , 1.4:1 max
3 dB Beam Width	Azimuth: 60° typ Elevation: 65° typ
Polarization	RHCP + LHCP
Sidelobes Level @ ±90°	-12 dB max
Axial Ratio at Boresight	-2.5 dB max, 1.5 dB typ
Port to Port Isolation	-35 dB min
F/B Ratio	-20 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions LxWxD	536 x 360 x 26 mm
Orientation	Rectangular
Weight	2 Kg max
Connector	2 X 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			IP54
Dust Resistance*				IP54
Solar Radiation	ASTM G53	1000 h		
Ozone Resistance	ETSI 300			
Flammability	UL 94			Class HB
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			

* IP67 available upon request

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