

MT-243010/NRLH

865 – 870 MHz 10 dBic Dual RHCP + LHCP Reader Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	865 – 870 MHz
Gain	10 dBic min
VSWR	1.5:1 max , 1.3:1 typ
Azimuth 3 dB Beam Width	64° typ
Elevation 3 dB Beam Width	45° typ
Polarization	RHCP+LHCP
Side Lobes Level @ ±90°	-14 dB max
Axial Ratio at Boresight	1.5 dB typ, 2 dB max
Port to Port Isolation	-40 dB min
F/B Ratio	-25 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions LxWxD	920 x 325 x 34 mm max
Orientation	Rectangular
Weight	4 kg max
Connector	2 X N – type Female
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			

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