

MT-263024/N

950 – 956 MHz 10.5 dBi Reader Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	950 – 956 MHz
Gain	10 dBi min, 10.5 dBi typ
VSWR	1.3:1 typ , 1.4:1 max
3 dB Beam Width	Azimuth: $50^{\circ} \pm 1^{\circ}$ Elevation: $61^{\circ} \pm 1.5^{\circ}$
Polarization	Linear Vertical or Horizontal
Sidelobes Level	Azimuth: -17 dB max Elevation: -18 dB max
Cross Polarization Azimuth	-20 dB max
Cross Polarization Elevation	-30 dB max
F/B Ratio	-25 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions LxWxD	305 x 305 x 25 mm max
Weight	1.2 Kg max
Connector	N-TYPE Female
Radome	Plastic
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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