

MT-262008/TRLH/A

902 – 928 MHz 9 dBic Dual RHCP & LHCP Reader Antenna



Wireless Edge

Antenna Solutions

An MTI Company

Electrical

Regulatory	RoHS, CE 0682
Frequency	902 – 928 MHz
Gain	9 dBic min
VSWR	1.5:1 max, 1.3:1 typ
3 dB Beam Width	Azimuth: 58° typ Elevation: 70° typ
Polarization	Dual circular RHCP & LHCP
Boresight misalignment between ports:	
Azimuth	4° max
Elevation	7° max
Tilt	
Azimuth	2° max
Elevation	6° max
Sidelobes Level @ 90°	-12 dB max
Axial Ratio at Bore sight	3 dB typ , 4 dB max
Port to Port Isolation	-35 dB min, -40 dB typ
F/B Ratio	-20 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions L x W x D	536 x 360 x 26 mm
Orientation	Rectangular
Weight	2 Kg max
Connector	2 X TNC reverse polarity
Radome	Plastic UV Resistant
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
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			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			

* For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

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