

MT-262031/TRH/A/K

902 – 928 MHz 7.5 dBic RHCP Reader Antenna

Electrical

| | |
|---------------------------|-----------------------------|
| Regulatory Compliance | RoHS, CE 0682 |
| Frequency | 902 – 928 MHz |
| Gain | 7.5 dBic min , 9.5 dBic max |
| VSWR | 1.3:1 typ, 1.5:1 max |
| Azimuth 3 dB Beam Width | 77° typ |
| Elevation 3 dB Beam Width | 72° typ |
| Polarization | RHCP |
| Axial Ratio @ Boresight | 3.5 dB max |
| Axial Ratio @ ± 20° | 3.5 dB typ, 4 dB max |
| F/B Ratio | -14 dB typ |
| Input Impedance | 50 ohm |
| Input Power | 6 W max |
| Lightning Protection | DC Grounded |

Mechanical

| | |
|----------------------|---|
| Dimensions L x W x D | 190 x 190 x 30 mm max |
| Weight | 0.8 Kg max |
| Connector | TNC Female reverse polarity |
| Radome | Plastic |
| Base Plate | Aluminum with chemical conversion coating |
| MTBF | 20 years |

Environmental

| Test | Standard | Duration | Temperature | Notes |
|-----------------------------|----------------------------|-------------------|----------------|------------------|
| Low Temperature | IEC 68-2-1 | 72 h | -40 °C | |
| Low Temperature Operation | IEC 68-2-1A | 72 h | -40 °C | |
| High Temperature | IEC 68-2-2 | 72 h | +85 °C | |
| High Temperature Operation | | 72 h | +65 °C | |
| Temp. Cycling | IEC 68-2-14 | 1 h | -45°C to +70°C | 3 Cycles |
| Thermal Shock Non-Operating | | | -40°C to +65°C | 3 Cycles |
| Humidity | ETSI EN300-2-4 T4.1E | 24 h | | 95% 5 Cycles |
| Dust and Water Tightness | IEC 529 | | | IP67* |
| Solar Radiation | ASTM G53 | 1000 h | | |
| Flammability | UL 94 | | | Class HB |
| Salt Spray | IEC 68-2-11 Ka | 500 h | | |
| Mechanical Shock | IEC 68-2-32 IEC 68-2-27 | 10 ms HALFSINE | | 6 x 100 g |
| Thermal Shock Resistance | | | -40°C to +85°C | 6 Cycles |
| Powered Thermal Cycling | | | -40°C to +65°C | 30 Cycles |
| Powered Vibration Endurance | IEC 68-2-6A | | | Comply by design |

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

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