# 902-928 MHz Dual Circular Polarization Antennas for RFID Readers

Dec 2015

| Antenna P/N | | MT-262025/TRLH/A Ultra Low Axial Ratio | MT-262010/TRLH/A/K | MT-262008/TRLH/A | MT-263021/TRLH/A/K |
|---|---|---|---|---|---|
| Frequency Band | MHz | 902-928 | 902-928 | 902-928 | 902-928 |
| Gain | dBic (Min) | 6± 0.5 | 8 | 9 | 11 |
| Polarization | | 2xRH / 2xLH / R+L | 2xRH / 2xLH / R+L | 2xRH / 2xLH / R+L | RHCP + LHCP |
| AZ/EL BW | Degree | 80° / 60° | 70° / 60° | 58° / 70° | 63° / **30°** |
| Sidelobe Level | dB (Max) | | -10 | -12 | -12 |
| Axial Ratio Level | dB (Max) | 1.5 | 4 | 3 (typ.) | 3 |
| Front to Back Ratio | dB (Max) | 18 | 18 | 20 | 20 |
| Port to Port Isolation | dB (Max) | 45 | 35 | 40 (typ) | 30 |
| VSWR 50 Ohm | (Max) | 1.2:1 | 1.5:1 | 1.5:1 | 1.5:1 |
| Max. Input Power | Watt | 6 | 6 Available with 10kΩ Resistor | 6 Available with 10kΩ Resistor (263011) | 6 |
| Size: | mm | 500x200x30 | 500x200x30 | 536x360x26 | 1220x320x35 |
| Weight: | Kg (Max) | 1.8 | 1.5 | 2/1.5/1.5 | 5.4 |
| Connector other connectors available | | 2xRP TNC/N-Type | 2xRP TNC/N-Type | 2xRP TNC/N-Type | 2xTNC RP |
| Mounting Kit: | | MT-120018 | MT-120018 | MT-120018 | MT-120019 |

**Environmental**

| | |
|---|---|
| Temperature Range | -55 to +71 degree per IEC 68 |
| Temperature Shock | -40°C to +71°C, 3 cycles 30°C/min |
| Vibration | 1 g rms, 10-500 Hz (2 hrs per axis) |
| Mechanical Shock | 10 g, 11 msec half sine pulse |
| Transit Drop | MIL-STD-810E 26 drops from height of 122 cm |
| Humidity | 95% per ETSI EN300 |
| Water Tightness | IP54 (IP67 optional) |
| Salt Spray | 500 hours per IEC 68 |
| Solar Radiation | 1000 hours per ASTM G53 |
| Flammability | Class HB per UL-94 |

***Notes***

*All specifications are subject to change without notice*

*Preliminary specs are for antennas under development*

*Upon request MTI may provide the complete spec controlled document for specific antenna*