

MT-9002/B

10.15 – 10.65 GHz 17 dBi 90° Sector Antenna



Wireless Edge
Antenna Solutions
An MTI Company

Electrical

| | |
|---------------------------|--|
| Regulatory Compliance | EN 302 085 V1.1.2 (2001-02) Range 3, RoHS CE0682 |
| Frequency | 10.15 – 10.65 GHz |
| Gain over Sector | 10 dBi min |
| Gain Flatness | 7 dB max over $\pm 45^\circ$ |
| VSWR | 2.0:1 max |
| 3 dB Elevation Beam Width | 8° typ |
| Polarization | Horizontal |
| Sectoral Coverage | 90° typ |
| Azimuth RPE | ETS 302 085 V1.1.2, Class CS3, Tables 15a/15b |
| Elevation RPE | ETS 302 085 V1.1.2 Figure 6.4 |
| Input Impedance | 50 Ohm |
| Input Power | 6 W max |

Mechanical

| | |
|------------------------|---|
| Connector | SMA Female |
| Dimensions (L x W x D) | 250 x 250 x 26.6 mm max |
| Weight | 1.45 Kg max |
| 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 |
| Vibration | IEC 60721-3-4 | 30 min/axis | | Random 4M3 |
| Shock Mechanical | IEC 60721-3-4 | | | 4M3 |
| Humidity | ETSI EN300-2-4 T4.1E | 144 h | | 95% |
| 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 | | |
| Ice & Snow | | | | 25mm Radial |
| Wind Speed Survival Operational | | | | 220 Km/h 160 Km/h |
| Wind Load Survival | | | | |
| Front thrust | | | | 18 Kg |
| Side thrust | | | | 1.9 Kg |

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