

# MT-263023/N

950 – 956 MHz 12.5 dBi Directional Antenna

## Electrical

|                              |                                |
|------------------------------|--------------------------------|
| Regulatory Compliance        | RoHS, CE 0682                  |
| Frequency                    | 950 – 956 MHz                  |
| Gain                         | 12 dBi min, 12.5 dBi typ       |
| VSWR                         | 1.3 max                        |
| 3 dB Beam Width              | Azimuth: 37°<br>Elevation: 42° |
| Polarization                 | Linear Vertical or Horizontal  |
| Cross Polarization Azimuth   | -17 dB max                     |
| Cross Polarization Elevation | -25 dB max                     |
| F/B Ratio                    | -17 dB max                     |
| Input Impedance              | 50 ohm                         |
| Input Power                  | 6 W max                        |
| Lightning Protection         | DC Grounded                    |

## Mechanical

|                  |   |
|------------------|---|
| Dimensions LxWxD | 370 x 370 x 40 mm max                     |
| Weight           | 1.5 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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