

# MT-799001/WA

80 GHz 50.5 dBi 2' Parabolic Antenna

## Electrical

|                                   |   |
|-----------------------------------|---|
| Regulatory Compliance             | FCC 47CFR101.115<br>ETSI EN 302 217-4-2 V1.5.1 (2010-01)<br>RoHS, CE    |
| Frequency                         | 71-76 GHz, 81- 86 GHz   |
| Gain                              | 50.0 dBi min<br>FCC, 47CFR101.115<br>ETSI EN 302 217-4-2 V1.5.1 Class 3 |
| VSWR                              | 1.5:1   |
| 3 dB Beam Width                   | FCC, 47CFR101.115<br>ETSI EN 302 217-4-2 V1.5.1 Class 3<br>0.50 deg max |
| Polarization                      | Vertical or Horizontal or Dual Pol                                      |
| Side Lobes Level                  | FCC, 47CFR101.115<br>ETSI EN 302 217-4-2 V1.5.1 Class 3                 |
| Cross Polarization                | FCC, 47CFR101.115<br>ETSI EN 302 217-4-2 V1.5.1 Class 3                 |
| Cross Polarization Discrimination | FCC, 47CFR101.115<br>27 dB min  |
| F/B Ratio                         | FCC, 47CFR101.115<br>ETSI EN 302 217-4-2 V1.5.1 Class 3                 |
| Input Power                       | 10 W max  |

## Mechanical

|                             |                     |
|-----------------------------|---------------------|
| Dimensions Diameter x Depth | Ø655 x 370 mm max   |
| Weight                      | 7.5 kg max          |
| Interface                   | Circular Wave Guide |
| Radome                      | Plastic             |

## 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 +70 °C | 3 Cycles     |
| Vibration        | IEC 60721-3-4        | 30 min/axis |               | Random 4M5   |
| Shock Mechanical | IEC 60721-3-4        |             |               | 4M5          |
| Humidity         | ETSI EN300-2-4 T4.1E | 144 h       |               | 95%          |
| Water Tightness  | IEC 529              |             |               | IP67         |
| Solar Radiation  | ASTM G53             | 1000 h      |               |              |
| Salt Spray       | IEC 68-2-11 Ka       | 500 h       |               |              |
| Ice And Snow     |                      |             |               | 25 mm Radial |
| Wind Speed       | Survival             |             |               | 252 Km/h     |
|                  | Operation            |             |               | 164 Km/h     |

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