

# MT035S09DS-1

Dual Slant 3.3 – 3.8 GHz 8.5 dBi



| Electrical             |                                                          |
|------------------------|----------------------------------------------------------|
| Regulatory Compliance  | RoHS , CE 0682                                           |
| Frequency Range        | 3.3 – 3.8 GHz                                            |
| Gain                   | 8.5 dBi $\pm$ 1 dBi                                      |
| VSWR                   | 1.5:1 typ , 2:1 max                                      |
| Polarization           | Dual Slant $\pm 45^\circ$                                |
| -3 dB Beam width Az.   | 55° typ                                                  |
| -3 dB Beam width El.   | 65° typ                                                  |
| XPD                    | -20 dB typ, -15 dB max                                   |
| Side Lobes Level       | -18 dB typ, -13 dB max                                   |
| Port To Port Isolation | 20 dB min                                                |
| F/B Ratio              | -25 dB typ                                               |
| Input Impedance        | 50 $\Omega$                                              |
| Input Power            | 4 W max                                                  |
| Lightning Protection   | DC Grounded                                              |
| Mechanical             |                                                          |
| Dimensions (LxWxD)     | 140 x 140 x 25 mm max                                    |
| Weight                 | 0.5 Kg (max)                                             |
| Connector              | 2 cables RG316 with connectors N-type male length 150 mm |
| Radome                 | Plastic                                                  |
| Base Plate             | Aluminum with chemical conversion coating                |

| Environmental                                       |                      |             |             |                      |
|-----------------------------------------------------|----------------------|-------------|-------------|----------------------|
| Test                                                | Standard             | Duration    | Temperature | Notes                |
| Low Temperature                                     | IEC 68-2-1           | 72h         | -55°C       | -                    |
| High Temperature                                    | IEC 68-2-2           | 72 h        | +71°C       | -                    |
| Temp. Cycling                                       | IEC 68-2-14          | 1h          | -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 | 144h        | -           | 95%                  |
| Water Tightness                                     | IEC 529              | -           | -           | IP65                 |
| Solar Radiation                                     | ASTM G53             | 1000 h      | -           | -                    |
| Salt Spray                                          | IEC 68-2-11 Ka       | 500h        | -           | -                    |
| Ice And Snow                                        | -                    | -           | -           | 25mm Radial          |
| Wind Speed:<br>Survival<br>Operation                |                      |             |             | 220 Km/h<br>160 Km/h |
| Wind Load (Survival)<br>Front Thrust<br>Side Thrust |                      |             |             | 5.6 kg<br>0.8 kg     |

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