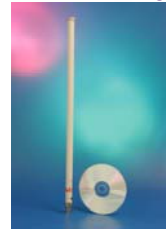


**MT-482016/N/A**

## 5.47-5.875GHz 8.5dBi Ultra Low-Cost Integrated Omni Directional Antenna

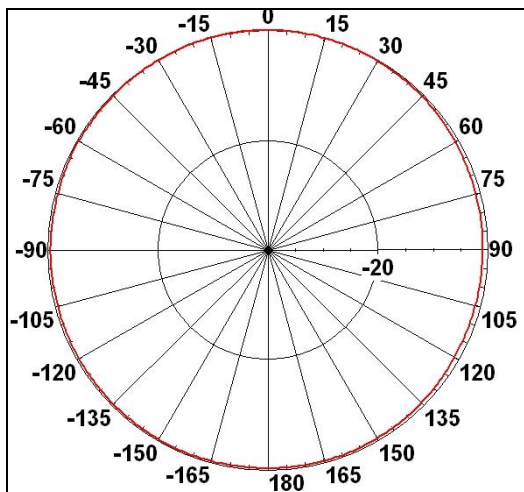


### Specifications

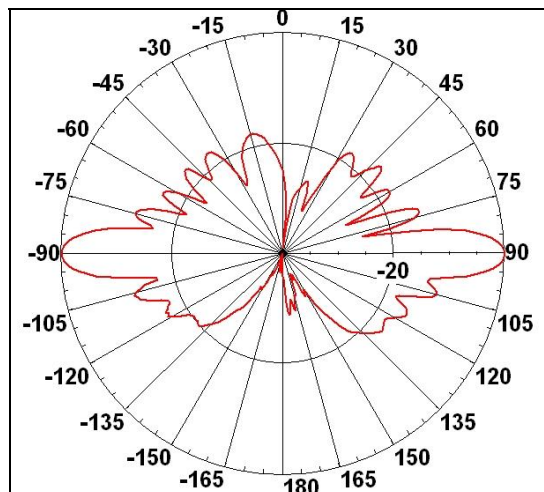
| MTI PART NUMBER                |                      | MT - 482016/N/A                                                            |             |             |
|--------------------------------|----------------------|----------------------------------------------------------------------------|-------------|-------------|
| ELECTRICAL                     |                      |                                                                            |             |             |
| REGULATORY COMPLIANCE          |                      | RoHS, CE 0682                                                              |             |             |
| FREQUENCY RANGE                |                      | 5.47-5.875GHz                                                              |             |             |
| PEAK GAIN + AZIMUTH RIPPLE     |                      | 7.8 ± 0.6dBi @ 5.47GHz, 9.0 ± 0.6dBi @ 5.725GHz<br>8.5 ± 0.6dBi @ 5.875GHz |             |             |
| GAIN @ HORIZON                 |                      | 6.0 ± 0.8dBi @ 5.47GHz, 9.0 ± 0.6dBi @ 5.725GHz<br>7.5 ± 0.6dBi @ 5.875GHz |             |             |
| VSWR                           |                      | 1.7:1 (max)                                                                |             |             |
| AZIMUTH BEAMWIDTH              |                      | Omni                                                                       |             |             |
| ELEVATION BEAMWIDTH            |                      | 10 ° (typ)                                                                 |             |             |
| ELECTRICAL TILT                |                      | -3 ° (typ) @ 5.47 GHz<br>0 ° (typ) @ 5.725 GHz<br>+2 ° (typ) @ 5.875 GHz   |             |             |
| POLARIZATION                   |                      | Linear Vertical                                                            |             |             |
| E - PLANE SIDELOBES LEVEL      |                      | -10 dB (typ)                                                               |             |             |
| INPUT IMPEDANCE                |                      | 50 (ohm)                                                                   |             |             |
| INPUT POWER                    |                      | 4W (max)                                                                   |             |             |
| LIGHTNING PROTECTION           |                      | DC Grounded                                                                |             |             |
| MECHANICAL                     |                      |                                                                            |             |             |
| DIMENSIONS - DIAMETER X HEIGHT |                      | 16mm X 337mm (max)                                                         |             |             |
| WEIGHT                         |                      | 0.5 kg (max)                                                               |             |             |
| CONNECTOR                      |                      | N-Type Male                                                                |             |             |
| RADOME                         |                      | Plastic, UV Resistance                                                     |             |             |
| OUTLINE DRAWING                |                      | See page 2                                                                 |             |             |
| MOUNTING KIT                   |                      | Mounted to Radio's N-Female output                                         |             |             |
| 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  |
| MECHANICAL SHOCK               | IEC 60721-3-4        | -                                                                          | -           | 4M5         |
| HUMIDITY                       | ETSI EN300-2-4 T4.1E | 144 h                                                                      | -           | 95%         |
| WATER TIGHTNESS                | IEC 529              | -                                                                          | -           | IP67        |
| SOLAR RADIATION                | ASTAM G53            | 1000 h                                                                     | -           | -           |
| FLAMMABILITY                   | UL 94                | -                                                                          | -           | Class HB    |
| SALT SPRAY                     | IEC 68-2-11 Ka       | 500 h                                                                      | -           | -           |
| ICE AND SNOW                   | -                    | -                                                                          | -           | 25mm Radial |
| WIND SPEED SURVIVAL            | -                    | -                                                                          | -           | 220 Km/h    |
| OPERATION                      | -                    | -                                                                          | -           | 160 Km/h    |
| WIND LOAD SUR. FRONT TH.       | -                    | -                                                                          | -           | 1.6 kg      |
| SIDE THRUST                    | -                    | -                                                                          | -           | 1.6 kg      |

## 5.47-5.875GHz 8.5dBi Ultra Low-Cost Integrated Omni Directional Antenna

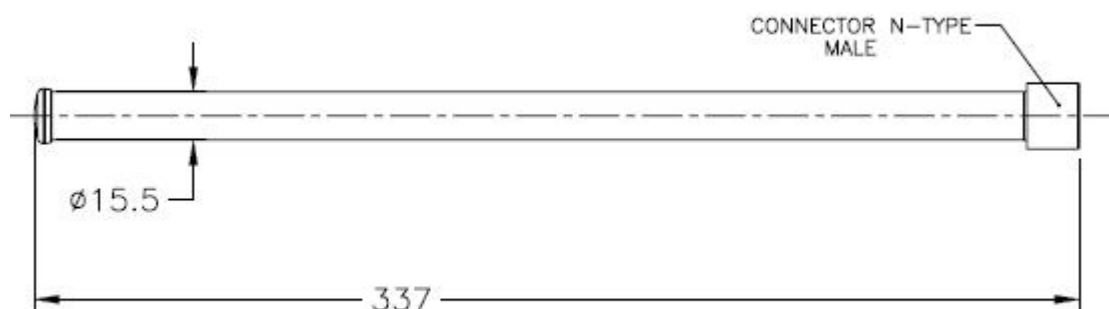
Azimuth Radiation Pattern  
Midband Freq. 5.725 GHz



Elevation Radiation Pattern  
Midband Freq. 5.725 GHz



### Dimensions [mm]



### Existing Antenna Versions

|  |  |
|--|--|
|  |  |
|  |  |

**MTI Wireless Edge is certified according to ISO 9001 and ISO 14001.**

#### WAIVER!

While the information contained in this document has been carefully compiled to the best of our present knowledge, it is not intended as presentation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.

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