



WIRELESS  
EDGE LTD.

## MT-242025/TRH/A 865 - 956 MHz, 7.5dBic READER ANTENNA



### ELECTRICAL

|                          |  |
|--------------------------|--|
| REGULATORY COMPLIANCE    | RoHS, CE 0682  |
| FREQUENCY RANGE          | 865 - 956 MHz  |
| GAIN                     | 865-870 MHz @ 7 dBic (min)<br>902-928 MHz @ 7.5 dBic (min)<br>950-956 MHz @ 6.5 dBic (min) |
| VSWR                     | 1.2:1 (typ) 1.35 : 1(max)  |
| POLARIZATION             | RHCP   |
| 3DB ELEVATION BEAMWIDTH  | 72° (typ)  |
| 3DB AZIMUTH BEAMWIDTH    | 74° (typ)  |
| F/B RATIO                | -18 dB (max)   |
| POWER                    | 6W (max)   |
| INPUT IMPEDANCE          | 50 (ohm)   |
| AXIAL RATIO AT BORESIGHT | 865-870 MHz @ 3 dB (max)<br>902-928 MHz @ 1.3 dB (max)<br>950-956 MHz @ 2.5 dB (max)       |
| LIGHTNING PROTECTION     | DC Grounded  |

### MECHANICAL

|                     |   |
|---------------------|---|
| DIMENSIONS (LXWXD)  | 190 x 190 x 30mm (max)                    |
| CONNECTOR           | RP-TNC Female                             |
| WEIGHT              | 0.8 (Kgs) (max)                           |
| MOUNTING KIT        | SEE RD41191800C, MT-120018/A              |
| RADOME MATERIAL     | Plastic                                   |
| BASE PLATE MATERIAL | Aluminum with chemical conversion coating |
| OUTLINE DRAWING     | RD42881300C                               |

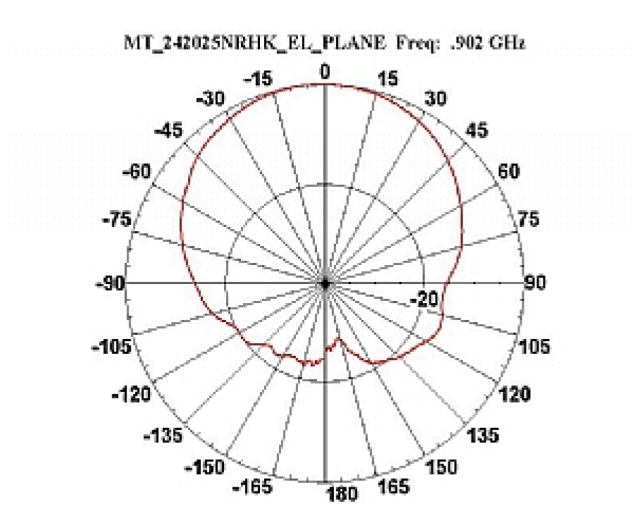
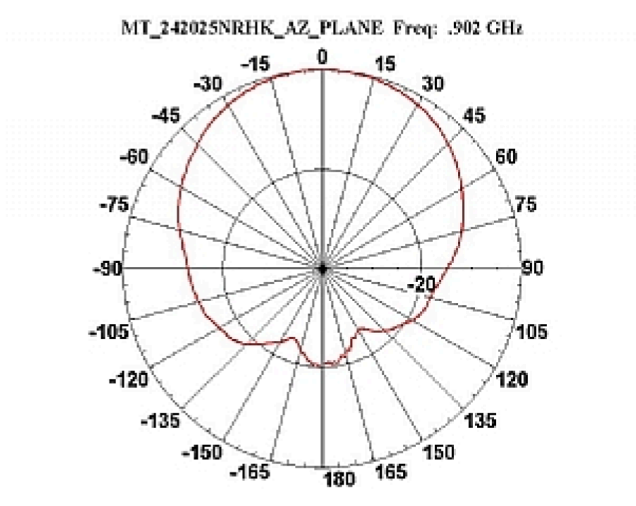
[ADD TO COMPARISON](#) | [COMPARE](#)

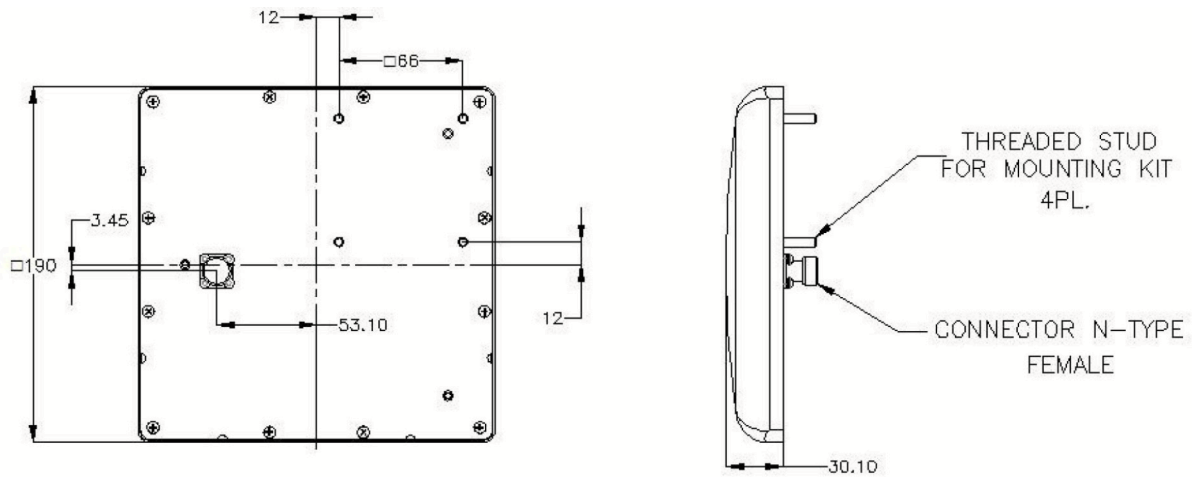
### ENVIRONMENTAL

| TEST            | STANDARD   | DURATION | TEMPERATURE | NOTES |
|-----------------|------------|----------|-------------|-------|
| LOW TEMPERATURE | IEC 68-2-1 | 72 h     | -55°C       |       |
| HIGH            | IEC 68-2-2 | 72 h     | +71°C       |       |

|  |                                 |       |               |   |
|--|---------------------------------|-------|---------------|---|
| <b>TEMPERATURE</b>                           |                                 |       |               |   |
| <b>TEMP. CYCLING</b>                         | IEC 68-2-14                     | 1 h   | -45°C +70°C   | 3 Cycles  |
| <b>THERMAL SHOCK<br/>NONO-<br/>OPERATING</b> |                                 |       | -30°C to+70°C | Ramp 30°C/min   |
| <b>HUMIDITY</b>                              | ETSI EN300-2-4<br>T4.1E         | 144 h |               | 95%   |
| <b>WATER TIGHTNESS</b>                       | IEC 529                         |       |               | IP67  |
| <b>DUST<br/>RESISTANCE</b>                   |                                 |       |               | IP67  |
| <b>SOLAR RADIATION</b>                       | ASTM G53                        | 1000h |               |   |
| <b>OZONE<br/>RESISTANCE</b>                  | ETSI 300                        |       |               |   |
| <b>FLAMMABILITY</b>                          | UL 94                           |       |               | Class HB  |
| <b>QUASI RANDOM<br/>VIBRATION</b>            |                                 |       |               | 20g rms for 4 hours   |
| <b>VEHICLE<br/>VIBRATION<br/>OPERATING</b>   | 1 grms, 10-500<br>Hz, in 3 axis |       |               | 6 hours total, 2 hr in each axis. Accelerated wear<br>– an additional 50hrs in worst case axis. |
| <b>MECHANICAL<br/>SHOCK<br/>OPERATING</b>    | 10g,11msec, half<br>sine pulse  |       |               |   |

|  |  |
|--|--|
| <b>AZIMUTH RADIATION PATTERN MIDBAND<br/>FREQ. 0.902 GHZ</b> | <b>ELEVATION RADIATION PATTERN MIDBAND<br/>FREQ. 0.902 GHZ</b> |
|--|--|





# 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.

 **atlasRFIDstore.com**  
 1.888.238.1155 • Inside USA  
 1.205.383.2244 • Outside USA  
 info@atlasRFIDstore.com • www.atlasRFIDstore.com