

## MT-242043/TRH/A/K 865 - 956 MHz, 8.5 dBic RHCP READER ANTENNA



### ELECTRICAL

|                         |                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| REGULATORY COMPLIANCE   | RoHS, CE 0682                                                                                                                                  |
| FREQUENCY RANGE         | 865 - 956 MHz                                                                                                                                  |
| GAIN                    | 7.5 dBic (min) , 8.5 dBic (max) @ 865-870 MHz<br>8.5 dBic (min) , 9.5 dBic (max) @ 902-928 MHz<br>7.5dBic (min) , 9.0 dBic (max) @ 950-956 MHz |
| VSWR                    | 1.2:1 (typ) 1.35 : 1(max)                                                                                                                      |
| POLARIZATION            | RHCP                                                                                                                                           |
| 3DB ELEVATION BEAMWIDTH | 65° (typ)                                                                                                                                      |
| 3DB AZIMUTH BEAMWIDTH   | 65° (typ)                                                                                                                                      |
| F/B RATIO               | -18 dB (max)                                                                                                                                   |
| POWER                   | 6W (max)                                                                                                                                       |
| INPUT IMPEDANCE         | 50 (ohm)                                                                                                                                       |
| AXIAL RATIO             | 865-870 MHz @ 2.5 dB (max)<br>902-928 MHz @ 1dB(typ) 1.5 dB (max)<br>950-956 MHz @ 3.0 dB (max)                                                |
| LIGHTNING PROTECTION    | DC Grounded                                                                                                                                    |

### MECHANICAL

|                     |                                           |
|---------------------|-------------------------------------------|
| DIMENSIONS (LXWXD)  | 305x305x25mm (max)                        |
| CONNECTOR           | TNC JACK Reverses Polarity                |
| WEIGHT              | 1.2 kg (max)                              |
| MOUNTING KIT        | RD41191800C , MT-120018                   |
| RADOME MATERIAL     | Plastic                                   |
| BASE PLATE MATERIAL | Aluminum with chemical conversion coating |
| OUTLINE DRAWING     | RD43072500C                               |

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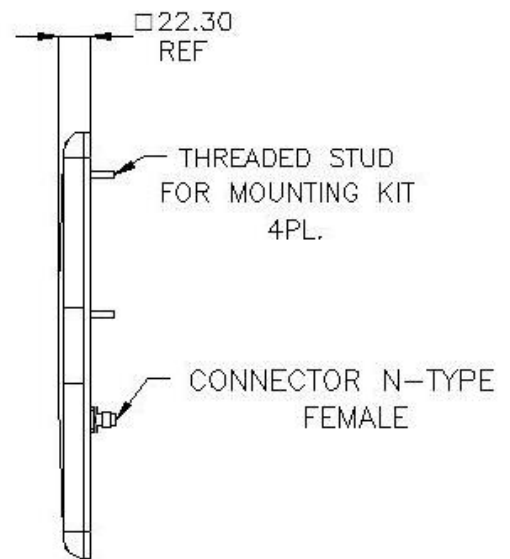
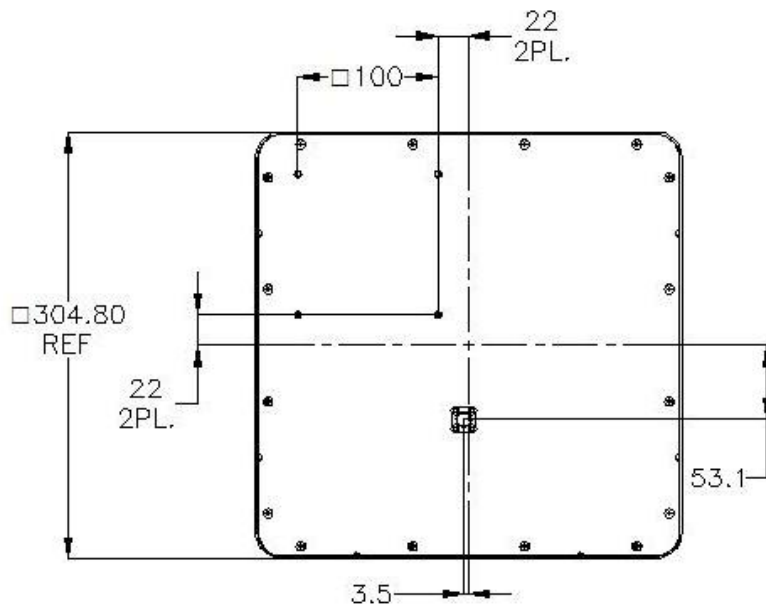
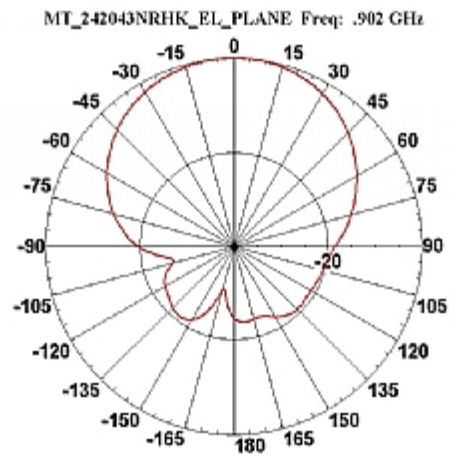
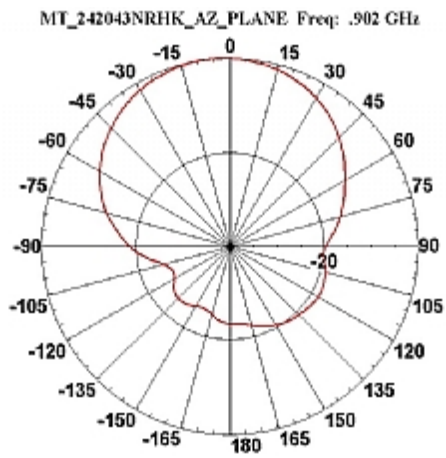
### ENVIRONMENTAL

| TEST             | STANDARD    | DURATION | TEMPERTURE  | 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 | Random4M5            |
| 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             | 1000h       |                      |
| FLAMMABILITY                                        | UL 94                |             | Class HB             |
| SALT SPRAY                                          | IEC 68-2-11 Ka       | 168 h       |                      |
| ICE AND SNOW                                        |                      |             | 25mm Radial          |
| WIND SPEED SURVIVAL OPERATION                       |                      |             | 220 Km/h<br>160 Km/h |
| WIND LOAD (SURVIVAL)<br>FRONT THRUST<br>SIDE THRUST |                      |             | 26.8 kg<br>2.2 kg    |

**AZIMUTH RADIATION PATTERN MIDBAND  
FREQ. 0.902 GHZ**

**ELEVATION RADIATION PATTERN MIDBAND  
FREQ. 0.902 GHZ**



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