|  |
| --- |
| **SPECIFICATION FOR** **MT – 262024/TRH/A/K** |
|  **RHCP READER ANTENNA** |
| 902 - 928 MHz, 7.5 dBic  |

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| --- |
| **REVISION RECORD** |
| **DATE** | **APVD** | **DESCRIPTION** | **ECO** | **REV** |
| 16.7.0 | YAEL H. | RELAESED | CX72 | A |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | SHEET |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | REV |
| 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | SHEET |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | REV |
| 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | SHEET |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | REV |
| 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | SHEET |
|  |  |  |  |  |  |  |  |  |  | A | A | A | A | REV |

|  |
| --- |
| **PRODUCT STATUS:** |
| **[x]  PRODUCTION** | **[ ]  PREPRODUCTION** | **[ ]  IN DEVELOPMENT** | **[ ]  PROPOSAL** |

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| --- |
| **CONTRACT NO** |
| **DATE** | **SIGN** | **NAME** | **ACTION** |
| **8.7.07** | **YAEL** | **YAEL HARASH** | **PREP** |
| **15.7.07** | **D.Z** | **DANIEL ZERAH** | **CHKD** |
|  |  |  | **CHKD** |
|  |  |  | **CHKD** |
| **2.7.07** | **A.H** | **ASAF HAVIV** | **DSGN** |
| **8.7.07** | **A.D** | **ALEX DRAGILEV** | **PROJ** |
|  |  |  | **MFG** |
| 10.7.07 | MOTI | **MOTI MOTOVICH** | **QA** |
| **12.7.07** | **R.D** | **REUVEN DRORI** | **MARK.** |

##### **SPECIFICATION**

 FLAT PANEL READER ANTENNA

|  |  |
| --- | --- |
| MTI PART NUMBER | MT – 262024/TRH/A/K |
| REGULATORY COMPLIANCE | RoHS , CE 0682 |
|  |  |
| **1. ELECTRICAL** |  |
|  |  |
| FREQUENCY RANGE  | 902 - 928 MHz |
| GAIN  | 7.5 dBic (min) |
| VSWR | 1.3:1 (typ) 1.5 : 1(max)  |
| 3 dB BEAMWIDTH AZ EL  | 77° (typ)72° (typ) |
| POLARIZATION | RHCP |
| AXIAL RATIO AT BORESIGHT | 3.5 dB (max) |
| AXIAL RATIO @ ± 20º | 3.5dB (typ) 4dB (max) |
| F / B RATIO | -14 dB (typ) |
| INPUT IMPEDANCE | 50 ohm |
| INPUT POWER | 6W (max) |
| LIGHTNING PROTECTION | DC Grounded |
|  |  |
| **2**. **MECHANICAL** |  |
|  |  |
| DIMENSIONS(LxWxD)  | 190 x 190 x 30 mm (max) |
| WEIGHT  | 0.8 (Kgs) (max) |
| CONNECTOR | TNC female Reverse polarity |
| RADOME | Plastic |
| BASE PLATE | Aluminum with chemical conversion coating |
| OUTLINE DRAWING | RD42241100C |
|  |  |
| **3. MOUNTING KIT** | SEE RD41191800C , MT-120018/A |
|  |  |

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

Note: For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N