

CIRCULAR ANTENNAS

MT-242057/NRH
865-870 MHZ, 7.5DBIC RHCP FORKLIFT ANTENNA



ELECTRICAL

| | |
|--------------------------|---------------------------|
| REGULATORY COMPLIANCE | RoHS, CE 0682 |
| FREQUENCY RANGE | 865-870 MHz |
| GAIN | 7 dBic (min) 8 dBic (max) |
| VSWR | 1.35:1(max) |
| POLARIZATION | RHCP |
| 3dB ELEVATION BEAMWIDTH | 85° (typ) |
| 3dB AZIMUTH BEAMWIDTH | 85° (typ) |
| F/B RATIO | -14 dB (typ) |
| POWER | 6W (max) |
| INPUT IMPEDANCE | 50 (ohm) |
| AXIAL RATIO AT BORESIGHT | 1 dB (typ) 1.5 dB (max) |
| LIGHTNING PROTECTION | DC Grounded |

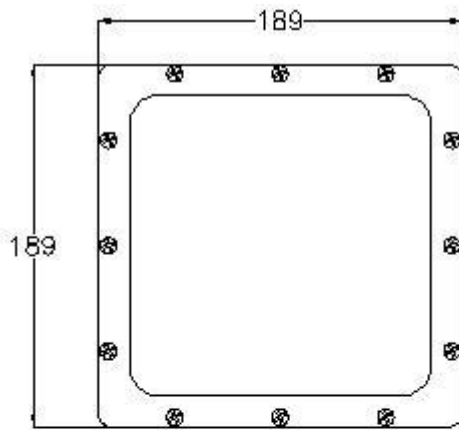
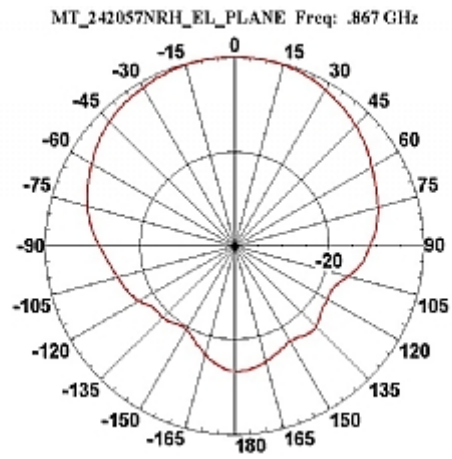
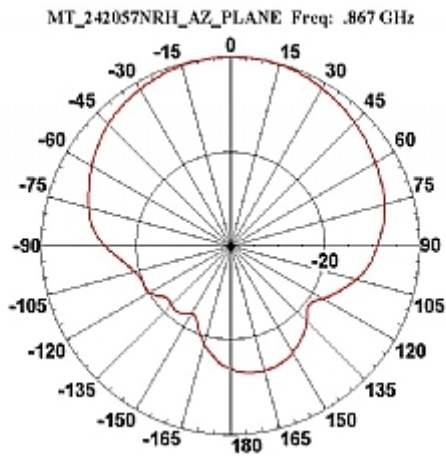
MECHANICAL

| | |
|---------------------|---|
| DIMENSIONS (LxWxD) | 190 x 190 x 53 mm |
| CONNECTOR | Right angle N-Type female |
| WEIGHT | 1.5 (kg) (max) |
| MOUNTING KIT | MT-120018/A |
| RADOME MATERIAL | Fiberglass 2.4mm Thk. |
| BASE PLATE MATERIAL | Aluminum with chemical conversion coating |
| OUTLINE DRAWING | RD42825500C |

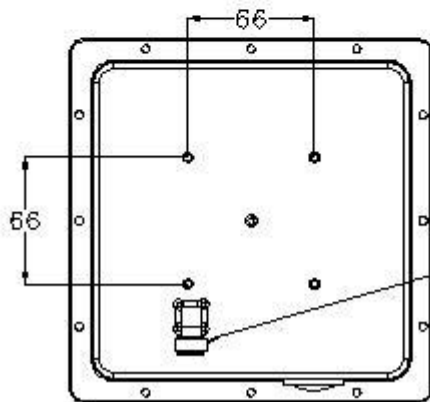
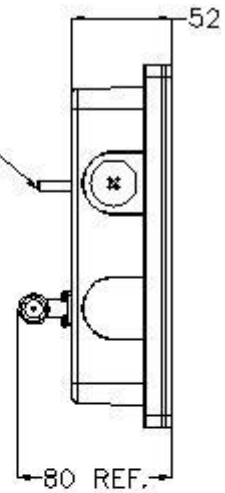
ENVIRONMENTAL

| TEST | STANDARD | DURATION | TEMPERTURE | NOTES |
|-----------------------------|---|-------------------------------------|-------------------|--|
| LOW TEMPERATURE | IEC 68-2-1 | 48 h | -35°C | |
| HIGH TEMPERATURE | IEC 68-2-2 | 48 h | +85°C | |
| TEMP. CYCLING | IEC 68-2-14 | 1 h | -45°C +70°C | 3 Cycles |
| HUMIDITY | ETSI EN300-2-4 T4.1E | 144 h | | 95% |
| WATER TIGHTNESS | IEC 529 | | | IP66 |
| DUST RESISTANCE | | | | IP66 |
| SOLAR RADIATION | ASTM G53 | 1000h | | |
| 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 VIBRATION OPERATING | Test Level: 6.9 gRMS 20.6 gPeak | 2 hr in each direction | | 6 hours total, 2 hr in each axis. Accelerated |
| MECHANICAL SHOCK OPERATING | 50g,8 msec, half sine pulse | 5000 impacts per direction | | |
| LOAD STRESS | | 250 lb in the center of the antenna | | |
| IMPACT RESISTANCE | nine impacts of 500 gram steel ball from drop height of 1 meter | | | |

**AZIMUTH RADIATION PATTERN MIDBAND
FREQ. 0.867 GHZ****ELEVATION RADIATION PATTERN MIDBAND
FREQ. 0.867 GHZ**



THREADED STUD
FOR MOUNTING KIT
4PL.



CONNECTOR N-TYPE
RIGHT ANGLE

WAIVER!

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