


| REVISION RECORD | | | | |
|-----------------|-------|---------------------|---------|----------|
| REV | ECO | DESCRIPTION | APVD | DATE |
| A | CR13 | RELEASED | Yael H. | 17.2.02 |
| B | 00723 | CHANGE FREQ. | Yael H. | 16.11.04 |
| C | 5528 | Add Water Tightness | Yael H. | 19.1.12 |
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|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| SHEET | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| REV | | | | | | | | | | | | | | |
| SHEET | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 |
| REV | | | | | | | | | | | | | | |
| SHEET | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| REV | | | | | | | | | | | | | | |
| SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| REV | C | C | | | | | | | | | | | | |

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|--------------------|-------------|-------------|-------------|--|-----------------------|---------------------|--|
| CONTRACT NO | | | |  | | | |
| ACTION | NAME | SIGN | DATE | TITLE MT – 404021/S 3.3-3.8 GHz 17 dBi Directional Antenna Specification | | | |
| PREP | MILLR Y. | Y.M | 20.1.01 | | | | |
| CHKD | | | | | | | |
| DSGN | Yuval Z. | Y.T | 12.2.02 | | | | |
| PROJ | ILAN V. | I.V | 13.2.02 | | | | |
| MFG | | | | SIZE | CLASSIFICATION | DWG NO | |
| QA | MOTOVICH | MOTI | 13.2.02 | A | NONE | RD41016500C | |
| MARK | D.SHANI | D.S | 13.2.02 | SCALE NONE | | SHEET 1 OF 2 | |

1. Description:

This document specifies the electrical, mechanical & environmental characteristics of dual polarization, directional antenna MT-404021/S.

2. Applicable Documents

2.1 Outline Drawing: RD41016600C

3. Electrical Characteristics

| | |
|------------------------------|---------------------------------|
| 3.1 Frequency Range: | 3.3-3.8 GHz |
| 3.2 Gain: | 17 dBi (min) |
| 3.3 3 dB Beamwidth: | 18° (typ) (Azimuth & Elevation) |
| 3.4 Polarization: | Dual- Vertical and Horizontal |
| 3.5 F/B Ratio: | 30 dB (min) |
| 3.6 Cross Polarization: | -20 dB (max) -25 dB (nom) |
| 3.7 Power: | 1 Watt |
| 3.8 Input Impedance: | 50 Ohms |
| 3.9 VSWR: | 1.5:1 (typ), 2.0:1 (max) |
| 3.10 Port to port isolation: | 25 dB (min) |

4. Mechanical Characteristics

| | |
|-----------------|-------------------------------------|
| 4.1 Input: | 2 SMA Female connectors |
| 4.2 Dimensions: | 305 x 305 x 25 mm (L x W x D) (max) |
| 4.3 Weight: | 1.5Kg (max) |
| 4.4 Radome | Plastic, white |

5. Environmental Characteristics

| | |
|-----------------------------|-------------------------|
| 5.1 Temperature- Operating: | - 40 °C to + 65 °C |
| 5.2 Wind (survival): | 205 Km/Hr |
| 5.3 Humidity: | 0-95% R.H |
| 5.4 Shock & Vibration: | ETSI EN300 019 part 1-4 |
| 5.5 Solar radiation: | 1120 W/sqM |
| 5.6 Water Tightness | IP67 |

7. Regulatory compliance

7.1 ETSI EN 302 085 V1.1.1. (2000-06) TS 1 – TS 5 Range 1

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|------------|--|-----------------------|----------|
| SIZE A | | DWG NO RD41016500C | REV C |
| SCALE NONE | | SHEET 2 OF 2 | |