

Specification for MT – 486013/NVH 2' Parabolic Dish, Dual Polarized Antenna 4.9 - 6 GHz, 28.5dBi

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| MTI WIRELESS EDGE LTD. | MT – 486013/NVH | REV-F |
| SCALE: NONE | DOC NO. RD42693200C | SHEET 1 OF 4 |

| REVISION RECORD | | | | |
|-----------------|------|--------------------|---------|----------|
| REV | ECO | DESCRIPTION | APVD | DATE |
| 01 | | Update spec | Yael h. | 9.6.09 |
| 02 | | UPDATE VSWR & GAIN | Yael H. | 14.9.09 |
| 03 | | UPDATE DIM. | Yael H. | 5.10.09 |
| A | DB67 | RELAESD | Yael H. | 14.10.09 |
| B | 4273 | UPDATE SPEC | Yael H. | 25.11.09 |
| C | 4673 | UPDATE WEIGHT | Yael H. | 12.7.10 |
| D | 4738 | DELETE CE | Yael H. | 18.10.10 |
| E | 4762 | ADD CE | Yael H. | 3.11.10 |
| F | 5005 | ADD ICE AND SNOW | Yael H. | 5.1.11 |

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|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| SHEET | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | |
| REV | | | | | | | | | | | | | | |
| SHEET | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | |
| REV | | | | | | | | | | | | | | |
| SHEET | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
| REV | | | | | | | | | | | | | | |
| SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| REV | F | F | F | F | | | | | | | | | | |

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PRODUCT STATUS:

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PROPOSAL IN DEVELOPMENT PREPRODUCTION PRODUCTION

| CONTRACT NO | | | |
|-------------|----------------|------|----------|
| ACTION | NAME | SIGN | DATE |
| PREP | Yael | Yael | 8.6.09 |
| CHKD | DANIEL ZERAH | D.Z | 11.10.09 |
| CHKD | | | |
| CHKD | | | |
| DSGN | MAURICE DADOUN | M.D | 7.10.09 |
| PROJ | GIL KAPLAN | G.K | 5.10.09 |
| MFG | | | |
| QA | MOTI MOTOVICH | MOTI | 11.10.09 |
| MARK. | DAVID SHANI | D.S | 11.10.09 |

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MTI WIRELESS EDGE LTD.

Specification For MT – 486013/NVH

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SCALE: NONE

CLASSIFICATION: NONE

REV-F

SHEET 2 OF 4

SPECIFICATION

Dual Polarized Parabolic Dish Antenna

| MTI PART NUMBER | MT – 486013/NVH |
|-------------------------------------------------------------|----------------------------------------------------------------------|
| Regulatory Compliance | RoHS , CE 0682 |
| <u>General:</u> | |
| The antenna is composed of a Dish and a dual polarized feed | |
| <u>1 .ELECTRICAL</u> | |
| Frequency Range | 4.9 – 6.0 GHz |
| Gain * | 28.0 dBi (min) 4.9-5.5 GHz 29.0 dBi (min) 5.5–6.0 GHz |
| VSWR | 1.5:1 (typ) 1.9:1 (max) @ 4.9-5.15 GHz ,1.7:1(max) @ 5.15-6.0 GH |
| Polarization | Linear Vertical & Horizontal or Dual Slant +/- 45° Polarization |
| Beam width AZ & EL | 5.5° (typ) |
| F to B Ratio | 45 dB (typ) |
| Port-to-Port Isolation | 40 dB (typ.) , 30dB min. |
| Cross Polarization Discrimination @ Main Beam | 25 dB typ. |
| Side lobe level AZ & EL | 20 dB (typ.) |
| Power Handling (rms) (peak) | 20 W 25 W |
| Input Impedance | 50 Ohms |
| <u>2. MECHANICAL</u> | |
| Dimensions | Diameter =725mm Depth =440mm |
| Connector | 2 x N –type female |
| Weight | 6.3 kg (max) |
| Radome on Feed aperture | Plastic |
| Radome on Dish | None |
| Outline Drawing | RD42693400C |
| <u>3. Mounting kit</u> | |
| MT-120019 | |

* Gain may deviate by ~-0.75dB due to Coaxial cables + External Radome.

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| 4. ENVIRONMENTAL | | | | |
|-------------------------------|-------------------------------------------|-----------------|--------------------|----------------------|
| TEST | STANDARD | DURATION | TEMPERATURE | NOTES |
| Low Temperature operational | IEC 68-2-1 | 72 h | -20°C | - |
| High Temperature operational | IEC 68-2-2 | 72 h | +65°C | - |
| Non Operational | - | - | -40°C to +71°C | - |
| Vibration | MIL-STD-810F PROCEDURE I CATEGORY 5 | - | - | Transport |
| Shock Mechanical | IEC 60721-3-4 | - | - | 4M5 |
| Humidity | ETSI EN300-2-4 T4.1E | 144 h | - | 95% |
| Water Tightness (on feed) | IEC 529 | - | - | IP67 |
| Ice and Snow | - | - | - | 25mm R _z |
| Solar Radiation | ASTM G 154 | 1000 h | - | - |
| Wind Speed Survival Operation | - | - | - | 220 Km/h 160 Km/h |

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