


| DASH NO. | APPLICATION | | REVISIONS | | | |
|----------|-------------|---------|-----------|------------------------|----------|----------|
| | NEXT ASSY | USED ON | REV | DESCRIPTION | DATE | APPROVED |
| | | | 1 | RELEASE PER ECO 100791 | 1-9-07 | JM |
| | | | 2 | REVISE PER ECO 101093 | 7-29-13 | JM |
| | | | A1 | ECN # 17-0281 | 12-29-17 | |
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|----------|---------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|--|
| REVISION | SHT NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| STATUS | LETTER | 2 | 2 | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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| | TEST DATA SHEET THRESHOLD DETECTOR GMTA-1003 | |
| CONTRACT NO. | | |
| DRAWN: CAMERON N 1-09-07 | | |
| CHECKED | | |
| PROJ ENGR JOHN M 1-09-07 | | |
| PROG MGR | | |
| MFG. ENGR | | |
| QA ENGR | | |
| RELIABILITY: | | |
| CUSTOMER | | |

| | | | | |
|---|------------------|---------------------------|------------------------------|--------------------|
|  | SIZE A | CAGE CODE 71A34 | DWG. NO. ETD000030 | REVISION A1 |
| | SCALE | | | SHEET 1 OF 3 |

MODEL NO.: GMTA-1003

FREQUENCY: 8 – 18 GHz

SERIAL NO.: PL23624

| PARAMETER | SPECIFICATION | MEASUREMENT |
|--------------------------------------|----------------------------|------------------------------|
| THRESHOLD LEVEL | Pin = -42 dBm @ 25 ° C | -39.4dBm Average |
| RESPONSE TIME @ TTL "I" / TTL "O" | 100 μs max | 12us |
| INPUT VSWR | 2.5 : 1 @ Pin = -10 dBm | 1.86:1 See Attached Plots |
| DC POWER SUPPLY NO RF SIGNAL | +12V @ 200 mA | 62mA |

THRESHOLD SETTING STABILITY

± 3 dB max OVER FREQUENCY @ TEMPERATURE

| FREQ. | 8 GHz | 10 GHz | 12 GHz | 14 GHz | 16 GHz | 18 GHz |
|-----------------|-------|--------|--------|--------|--------|--------|
| Pin @ 25 ° C | -38.6 | -40.4 | -39.3 | -39.6 | -40.3 | -38.3 |
| Pin @ 0 ° C | -38.9 | -40.6 | -39.5 | -39.8 | -40.5 | -38.6 |
| Pin @ 85 ° C | -38.0 | -39.7 | -38.5 | -38.9 | -39.7 | -37.7 |

TESTED BY: J. Wade

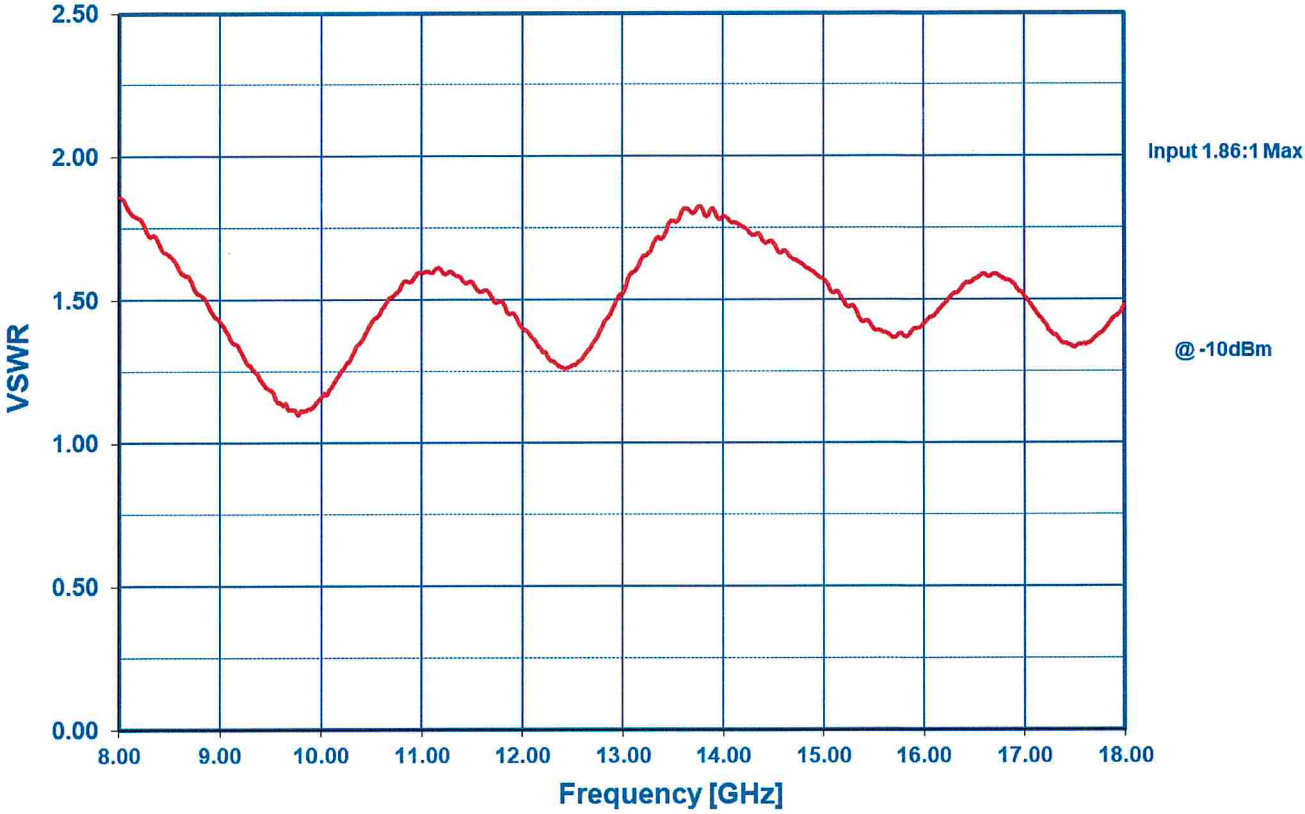
DATE: 10-2-18

QA BY: J. Wade

DATE: 10/3/18

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|---|------------------|---------------------------|------------------------------|--------------------|
|  | SIZE A | CAGE CODE 71A34 | DWG. NO. ETD000030 | REVISION A1 |
| | SCALE | | | SHEET 2 OF 3 |

VSWR GRAPH



SIZE
A

CAGE CODE
71A34

DWG. NO.
ETD000030

REVISION A1

SCALE

SHEET 3 OF 3