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|---|------------|---|-----------|------|----------------|
|  | Cage Code: | Title: | Date: | Rev: | Model no: |
| | 02WLO | PRODUCT DATA (subject to change) | 7/29/2009 | None | H22-064 |

This document describes the performance of a high power 1P2T switch. This is a cold switched design i. e; switched while RF is off. Proper bias levels per item no.11 must be applied when operating this device.

| ITEM NO | CHARACTERISTIC | CONDITIONS | MIN | MAX | UNITS | COMMENTS |
|---------|----------------------|-------------|-----|------|-------|---------------|
| 1 | POWER SPECIFICATION | IN BAND | | | | |
| 1.1 | FREQUENCY | | 0.8 | 2.2 | GHz | |
| 1.2 | PEAK POWER | | -- | 2000 | WATTS | |
| 1.3 | PULSE WIDTH | | -- | 100 | μs | |
| 1.4 | DUTY | | -- | 5 | % | |
| 1.5 | CW POWER | | -- | 100 | WATTS | |
| 2 | POWER SPECIFICATIONS | GUARD BAND | | | | |
| 2.1 | FREQUENCY | | 2.2 | 2.5 | GHz | |
| 2.2 | PEAK POWER | | -- | 1 | WATTS | |
| 2.3 | PULSE WIDTH | | -- | -- | CW | |
| 2.4 | DUTY | | -- | -- | CW | |
| 2.5 | CW POWER | | -- | 1 | WATT | |
| 3 | POWER SPECIFICATIONS | OUT OF BAND | | | | |
| 3.1 | FREQUENCY | | -- | >2.5 | GHz | |
| 3.2 | PEAK POWER | | -- | 30 | dBm | |
| 3.3 | PULSE WIDTH | | -- | -- | CW | |
| 3.4 | DUTY | | -- | -- | CW | |
| 3.5 | CW POWER | | -- | 30 | dBm | |
| 4 | OPERATING FREQUENCY | | 0.8 | 2.2 | GHz | |
| 5 | INSERTION LOSS | | | | | |
| 5.1 | | | -- | 0.60 | dB | |
| 6 | ISOLATION | | | | | |
| 6.1 | INPUT TO OUTPUT | | 40 | -- | dB | |
| 6.2 | OUTPUT TO OUTPUT | | 40 | -- | dB | |
| 7 | PHASE SPECIFICATION | | | | | |
| 7.1 | MATCHING | | | | | NOT SPECIFIED |
| 7.2 | PHASE TRACKING | | | | | NOT SPECIFIED |

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|---------|--------------------------|----------------------------|-----|-------|-------|--|
| 8 | VSWR | | -- | 1.4:1 | | |
| 8.1 | VSWR | PORT NOT SELECTED | -- | -- | | INFINITY |
| 8.2 | VSWR | LOAD | -- | 1.8:1 | | |
| 8.3 | VSWR | SOURCE | -- | 1.2:1 | | |
| 9 | HARMONICS & SPURS | | | | | |
| 9.1 | INTERNALLY GENERATED | | -- | -- | DBC | NOT SPECIFIED |
| 9.2 | | MEASURED AT INCIDENT POWER | -- | 0 | DBm | |
| 10 | SWITCHING SPECIFICATIONS | | | | | |
| 10.1 | SWITCHING SPEED | TO 0.5DB OF IL | -- | 1 | us | |
| 10.2 | SWITCHING RATE | | -- | 100 | KHz | |
| 10.3 | VIDEO LEAKAGE | | -- | -- | Vp-p | NOT SPECIFIED |
| 10.4 | COMMAND LOGIC TYPE | RS-422 | | | | |
| 10.5 | LOGIC TABLE | | | | | SEE DWG 3296 |
| 11 | D.C. SPECIFICATIONS | | | | | |
| 11.1 | POSITIVE BIAS VOLTAGE | | 4.8 | 5.5 | V | |
| 11.2 | NEGATIVE BIAS VOLTAGE | | -66 | -74 | V | |
| 11.3 | POSITIVE BIAS CURRENT | | -- | 300 | MA | |
| 11.4 | NEGATIVE BIAS CURRENT | | -- | 40 | MA | |
| 11.5 | VOLTAGE PROTECTION | | | | | THIS SWITCH HAS OVERVOLTAGE PROTECTION ON THE +5V PIN AND REVERSE VOLTAGE PROTECTION ON THE -70V PIN |
| 12 | CONNECTORS & INTERFACE | | | | | |
| 12.1 | RF | | | | | SMA(F) |
| 12.2 | DC | | | | | SOLDER PINS |
| 13 | MECHANICAL | | | | | |
| 13.1 | WEIGHT | | -- | 4 | OZ | |
| 13.2 | SIZE | | -- | -- | | SEE DWG 3296 |
| 13.3 | FINISH | | -- | -- | | SEE DWG 3296 |
| 14 | ENVIROMENTAL | | | | | |
| 14.1 | OPERATING TEMPERATURE | | -50 | +50 | C | |
| 14.2 | STORAGE TEMPERATURE | | -55 | +85 | C | |
| 14.3 | VIBRATION LEVEL | | | | | GND TRANSPORT |
| 14.4 | SEAL | | | | | NON-HERMETIC |

Federal Cage Code 02WLO

