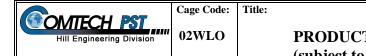


This document describes the performance of a high power dual in line SPDT switch. It is used to switch a filter or fixed attenuator in/out of the RF line. This is a cold switched design i.e.; switched while RF is off. Proper bias levels must be applied when operating this device.

| ITEM NO | CHARACTERISTIC | CONDITIONS | MIN | MAX | UNITS | COMMENTS |
|------------|----------------------------|--------------|-------|------|-------|---------------|
| 1 | POWER SPECIFICATION | IN BAND | | | | |
| 1.1 | OPERATING FREQUENCY | J1-J2 | 7.8 | 12.6 | GHz | |
| 1.2 | PEAK POWER | J1-J2 | | 800 | WATTS | |
| 1.3 | PULSE WIDTH | J1-J2 | | 40 | μS | |
| 1.4 | DUTY | J1-J2 | | 8 | % | |
| 1.5 | AVG. POWER | J1-J2 | | 64 | WATTS | |
| 1.6 | CW POWER | J1-J2 | | 64 | WATTS | |
| 1.7 | HARMONICS IN | J1-J2 | | -10 | dBc | |
| 2 | POWER SPECIFICATIONS | GUARD BAND | | | | |
| 2.1 | FREQUENCY | J1-J2 | 12.6 | 13.6 | GHz | |
| 2.2 | PEAK POWER | J1-J2 | | 10 | WATTS | |
| 2.3 | PULSE WIDTH | J1-J2 | | 40 | μS | |
| 2.4 | DUTY | J1-J2 | | 8 | % | |
| 2.5 | AVG POWER | J1-J2 | | .8 | WATTS | |
| 3 | POWER SPECIFICATIONS | OUT OF BAND | | | | |
| 3.1 | FREQUENCY | ALL PORTS | >13.6 | | GHz | |
| 3.2 | PEAK POWER | ALL PORTS | | 0.1 | WATTS | |
| 3.3 | PULSE WIDTH | ALL PORTS | CW | | μS | |
| 3.4 | DUTY | ALL PORTS | CW | | % | |
| 3.5 | CW POWER | ALL PORTS | | 0.1 | WATTS | |
| 4 | POWER SPECIFICATIONS | | | | | |
| 4.1 | MAX POWER, CW OR PULSED | J1-J3; J3-J4 | | 1.0 | WATT | |
| 5 | INSERTION LOSS | | | | | |
| 5.1 | | | 2.6 | | dB | |
| 6 | ISOLATION | | | | | |
| 6.1 | J1-J3 | | 100 | | dB | |
| 6.2 | J1-J2; J1-J4 | | 40 | | dB | |
| 7 | PHASE | | | | | |
| 7.1 | MATCHING/TRACKING | | | | | NOT SPECIFIED |



PRODUCT DATA (subject to change)

Date: Rev: 11/23/2009 None

AB-048

Model no:

| ITEM | CHARACTERISTIC | CONDITIONS | MIN | MAX | UNITS | COMMENTS |
|------|--------------------------|-----------------------|---------|--------|-----------|-------------------------|
| NO | LOMB | | | | | |
| 8 | VSWR | | | | | INCIDITE (D. (L. C.) |
| 8.1 | PORTS NOT SELECTED | | | 1.0. | | INFINITE (Reflective) |
| 8.2 | INPUT & OUTPUT, | | | 1.8:1 | | |
| 0.0 | SELECTED PORTS | | | 2.0:1 | | |
| 8.3 | TERMINATION | | | | | |
| 8.4 | SOURCE | | | 2.0:1 | | |
| 9 | HARMONICS & SPURS | | | | | |
| 9.1 | INTERNALLY | | | | | NOT SPECIFIED |
| | GENERATED | | | | | NOT OF ESTITED |
| 10 | SWITCHING | | | | | |
| 10.1 | SPEED | 50% Logic To 0.5dB | | 600 | nS | |
| 10.2 | reserved | | | | | |
| 10.3 | SWITCHING RATE | | | 125 | kHz | |
| 10.4 | COMMAND LOGIC | RS-422 | | | | Balanced |
| 10.5 | VIDEO LEAKAGE | J3 PORT ONLY | | 0.5 | V | |
| 10.6 | LOGIC TABLE | | | | | SEE DWG 3557 |
| 11 | D.C. POWER | | | | | |
| 11.1 | POSITIVE BIAS | | 4.8 | 5.2 | VDC | |
| | VOLTAGE | | | | | |
| 11.2 | NEGATIVE BIAS | | -46 | -54 | VDC | |
| | VOLTAGE | | | | | |
| 11.4 | POSITIVE BIAS CURRENT | | | 250 | mA | |
| 11.5 | NEGATIVE BIAS | | | 50 | mA | |
| | CURRENT | | | | | |
| | NOTE: NO OVER-VOLTAGE (| OR REVERSE POLARI | TY PROT | ECTION | IS PROVID | DED WITH THIS SWITCH. |
| 12 | CONNECTORS | | | | | |
| 12.1 | RF | | | | | SMAF |
| 12.3 | DC & LOGIC | | | | | 9 PIN "D" |
| 13 | MECHANICAL | | | | | |
| 13.1 | WEIGHT | | | 18 | Oz. | |
| 13.2 | OUTLINE | | | | | SEE DWG 3557 |
| 14 | ENVIRONMENTAL | | | | | |
| 14.1 | OPERATING TEMPERATURE | | 0 | +60 | °C | |
| 14.2 | STORAGE TEMPERATURE | | -20 | +85 | °C | |
| 14.3 | VIBRATION LEVEL | | | | | SHELTERED GROUND MOBILE |



Cage Code: 02WLO

Title:

PRODUCT DATA (subject to change) Date:

Rev: 11/23/2009 None Model no:

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