## DESCRIPTION

PMI MODEL P2T-2G8G-40-R-570-TFF-100W IS A REFLECTIVE 1 KILOWATT PEAK HIGH-POWER COLD SWITCHING SINGLE POLE DOUBLE THROW SWITCH OPERATING IN THE 2-8 GHz FREQUENCY RANGE.

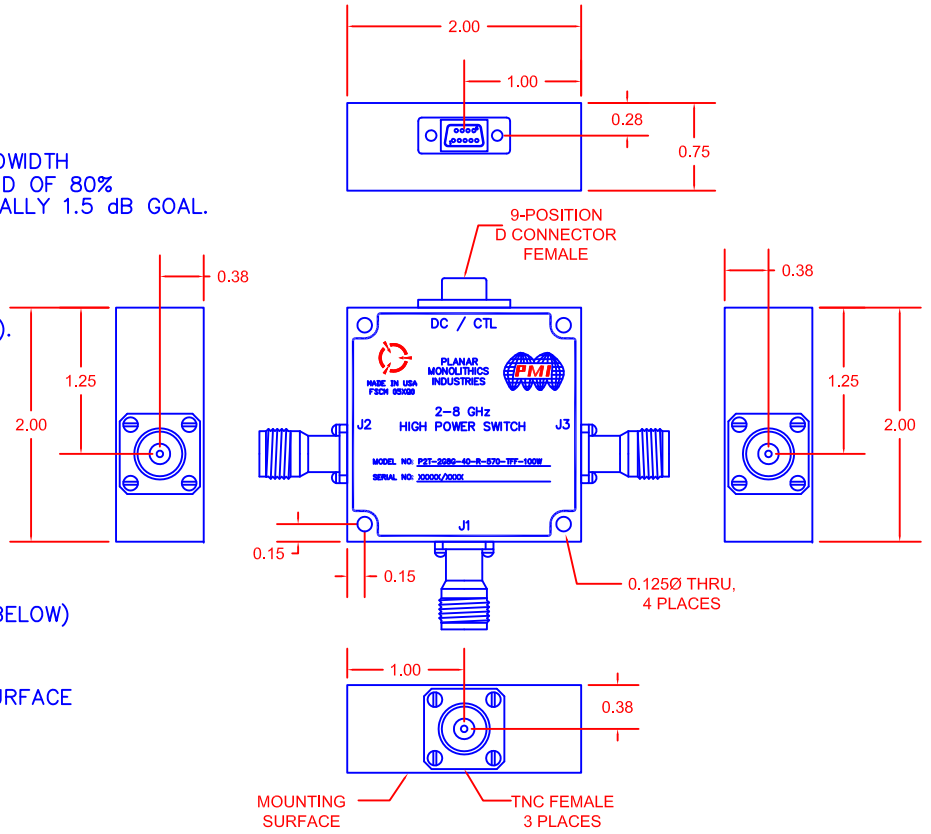
| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | – | PRELIMINARY | 2/12/19 | |
| | | | | |
| | | | | |

## SPECIFICATIONS

- FREQUENCY RANGE: 2-8 GHz
- POWER: 1.0 kW PEAK, 100 W CW
- DUTY CYCLE: 10%
- INSERTION LOSS: 2.2 dB MAX. AT BAND EDGES FOR 20% BANDWIDTH AND TYPICALLY 1.75 dB GOAL. FOR MID-BAND OF 80% OF THE BANDWIDTH 2.0 dB MAX., AND TYPICALLY 1.5 dB GOAL.
- ISOLATION: 40 dB MIN
- SWITCHING SPEED: 1.25 µs Max, 1.1 µs Typ. (50% TTL TO 90% RF & 50% TTL TO 10% RF).
- VSWR IN/OUT: 2:1 MAX.
- LOAD VSWR: BETTER THAN 2.0:1
- DC VOLTAGE & CURRENT: +5 V @ 400 mA AND -70 V @ 100 mA
- CONTROL: SINGLE TTL (TTL "0" J1-J3 " LOW LOSS)
- CONNECTOR FOR RF PORT: TNC FEMALE
- CONNECTOR FOR CONTROL: 9 PIN MICRO D TYPE FEMALE, MATING WITH M83513/03A/03C (SEE CONNECTION TABLE BELOW)
- SIZE (NOT INCL. CONNECTORS: (L) 2.00" X (W) 2.00" X (H) 0.75"
- FINISH: PAINTED BLUE – NO PAINT ON MOUNTING SURFACE
- DC/CTL CONNECTIONS:

| DC/CTL | CONNECT TO |
|---|---|
| 1 | -70V |
| 2 | GROUND |
| 3 | CONTROL |
| 4 | +5V |
| 5 | NC |
| 6 | GROUND |
| 7 | GROUND |
| 8 | GROUND |
| 9 | GROUND |

## MECHANICAL OUTLINE




## ENVIRONMENTAL RATINGS

- TEMPERATURE: . . . . . -40°C TO +85°C
- ENVIRONMENTAL . . . . . MIL-STD-810E
- EMI/EMC . . . . . MIL-STD-461

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY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| APPROVALS | DATE |
|---|---|
| DRAWN NJA | 12/17/18 |
| REDRAWN CW | 2/12/19 |
| ISSUED | |

TITLE: PRODUCT FEATURE
P2T-2G8G-40-R-570-TFF-100W
SP2T REFLECTIVE SWITCH

| SIZE | FSCM NO. | DWG NO. | REV. |
|---|---|---|---|
| A | 05XQ0 | PRELIMINARY | – |

SCALE N: S | SHEET 1 OF 1