

DESCRIPTION

PMI MODEL P4T-8G12G-70-R-SFF IS A REFLECTIVE, HIGH SPEED, SINGLE POLE FOUR THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 8.0 GHz TO 12.0 GHz. THIS SWITCH HAS > 70 dB ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 8.0 GHz TO 12.0 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: +30dBm MAX (SURVIVAL)
+20dBm MAX (OPERATING)
- VSWR: 1.8:1 TYP
- INSERTION LOSS: 2.2dB TYP
- ISOLATION: 70dB MIN
- SWITCHING SPEED: 100ns MAX
- DC VOLTAGE: +5VDC, 200mA TYP
-15VDC, 75mA TYP
- CONTROL: SOLDER PIN
TTL Logic "0" = Low Loss
TTL Logic "1" = Isolation
E1 Controls J1 - J2
E2 Controls J1 - J3
E3 Controls J1 - J4
E4 Controls J1 - J5
- CONNECTORS IN/OUT: SMA (F)
- SIZE: (L) 1.25" X (W) 1.25" X (H) 0.4"
- FINISH: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

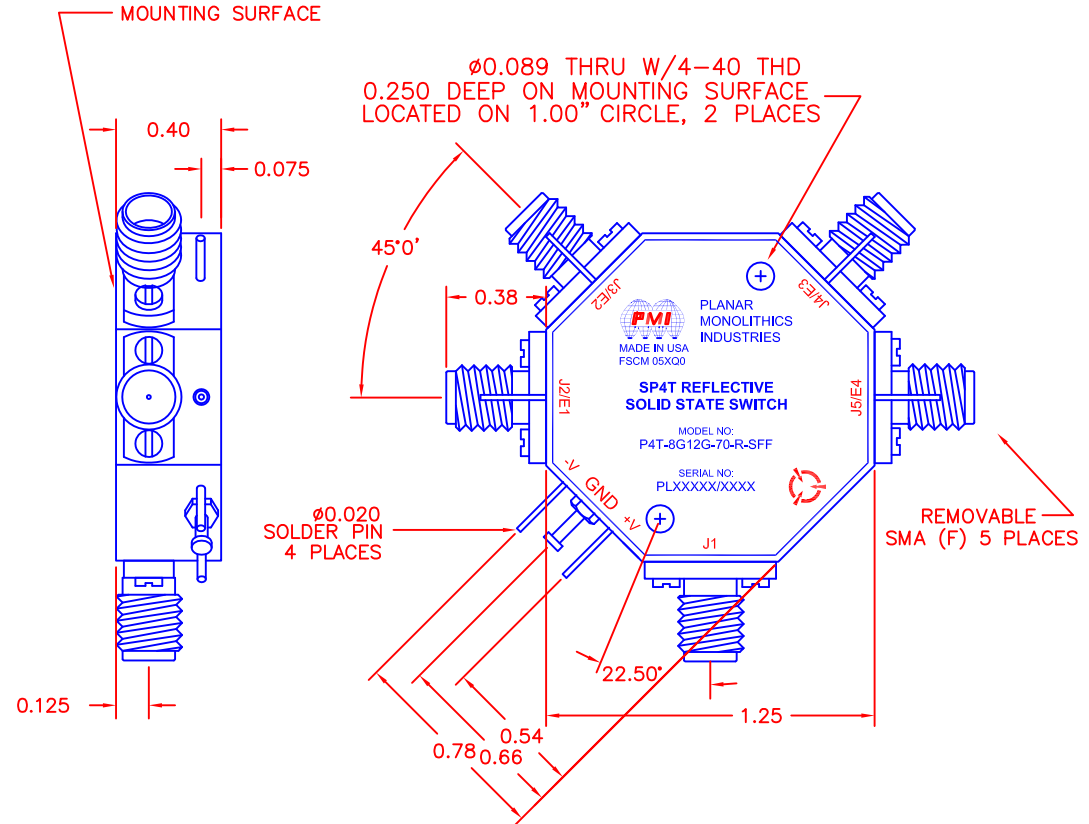
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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

| REVISIONS | | | | |
|-----------|------|------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | 1 | ORIGINAL RELEASE | 11/11/15 | |
| | A1 | ECN # 16-0171 | 11/15/16 | |

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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| APPROVALS | | DATE | TITLE | | |
|-------------------------|--|----------|---------------------------------------|-----------------|-------------------|
| DRAWN: <i>B. Thomas</i> | | 11/11/15 | PRODUCT FEATURE P4T-8G12G-70-R-SFF | | |
| CHECKED | | | SIZE: A | FSCM NO.: 05XQ0 | DWG NO.: 27027441 |
| ISSUED | | | SCALE: N:S | | REV. A1 |
| | | | | | SHEET 1 OF 1 |