

DESCRIPTION

PMI MODEL P4T-100M40G-90-T-512-292FF-IND IS AN ABSORPTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 40 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE:..... 0.1 TO 40 GHz
- ISOLATION:..... 100dB Typ., 95dB Min. (0.1 to 18 GHz)
95dB Typ., 80dB Min. (18 to 26.5 GHz)
77dB Typ., 70dB Min. (26.5 to 40 GHz)
- INSERTION LOSS:..... 5.25dB Typ , 6dB Max. (0.1 to 18 GHz)
6.25dB Typ., 8dB Max. (18 to 26.5 GHz)
7.25dB Typ., 10dB Max. (26.5 to 40 GHz)
- VSWR:..... 2.0:1 Typ., 2.75:1 Max
- OPERATING INPUT POWER:..... +20 dBm CW MAX
- RF SWITCHING SPEED: 100ns Max
- DC VOLTAGE:..... +5V @ 200 mA MAX
-12V @ 100 mA MAX
- CONTROL SIGNAL:..... 4 LINE TTL "0" = INSERTION LOSS & "1" = ISOLATION
- CONNECTORS IN/OUT:..... 2.92mm FEMALE CONNECTORS
- CONTROL:..... SOLDER PINS
- SIZE:..... (L)2.0" X (W)1.0" X (H)0.4"
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS

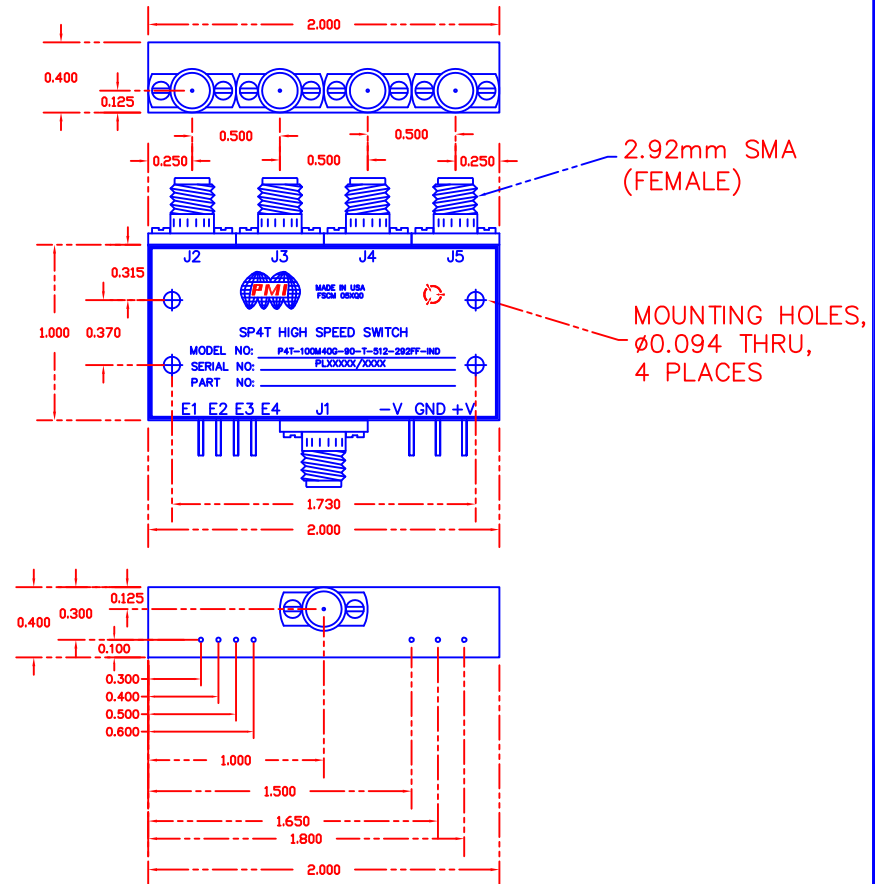
- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- SALT FOG:..... MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107

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 ±0.010
X.XXX ±0.005

| REVISIONS | | | | |
|-----------|------|-------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | 1 | OUTLINE | 10/22/13 | |

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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| APPROVALS | | DATE | TITLE | | |
|------------------|--|----------|---|-------------------|---------------------|
| DRAWN <i>JGS</i> | | 10/22/13 | PRODUCT FEATURE P4T-100M40G-90-T-512-292FF-IND | | |
| CHECKED | | | SIZE A | FSCM NO. 05XQ0 | DWG NO. 27021061 |
| ISSUED | | | | | REV. 1 |
| SCALE N: S | | | | SHEET 1 OF 1 | |