## DESCRIPTION

PMI MODEL P2T-1R2G1R4G-60-T-SFF IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE TWO THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 1.2 GHz TO 1.4 GHz. THIS SWITCH HAS 60 dB ISOLATION.

| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | 1 | ORIGINAL RELEASE | 8/31/2016 | |
| | | | | |
| | | | | |

## SPECIFICATIONS

- FREQUENCY RANGE: 1.2 GHz TO 1.4 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: +30 dBm MAX (SURVIVAL)
  +20 dBm MAX (OPERATING)
- INPUT VSWR: 1.5:1 MAX
- INSERTION LOSS: 1 dB MAX
- ISOLATION: 60 dB MIN
- SWITCHING SPEED: 100 ns MAX
- DC VOLTAGE: +5 VDC, 100 mA TYP
  -15 VDC, 100 mA TYP
- CONTROL: SOLDER PIN
  TTL COMPATIBLE - SEE LOGIC TABLE
- CONNECTORS IN/OUT: SMA (F)
- SIZE: 25.40 mm x 25.40 mm x 10.16 mm [1.00" x 1.00" x 0.40"]
- WEIGHT: 34.02 g [1.2 oz] MAX
- STATIC SENSITIVITY: ESD CLASS 1A, HBM - PROPER ESD TECHNIQUES SHOULD BE USED DURING HANDLING
- 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.

LOGIC TABLE

| CTL | J1 - J2 | J1 - J3 |
|---|---|---|
| 0 | ON | OFF |
| 1 | OFF | ON |

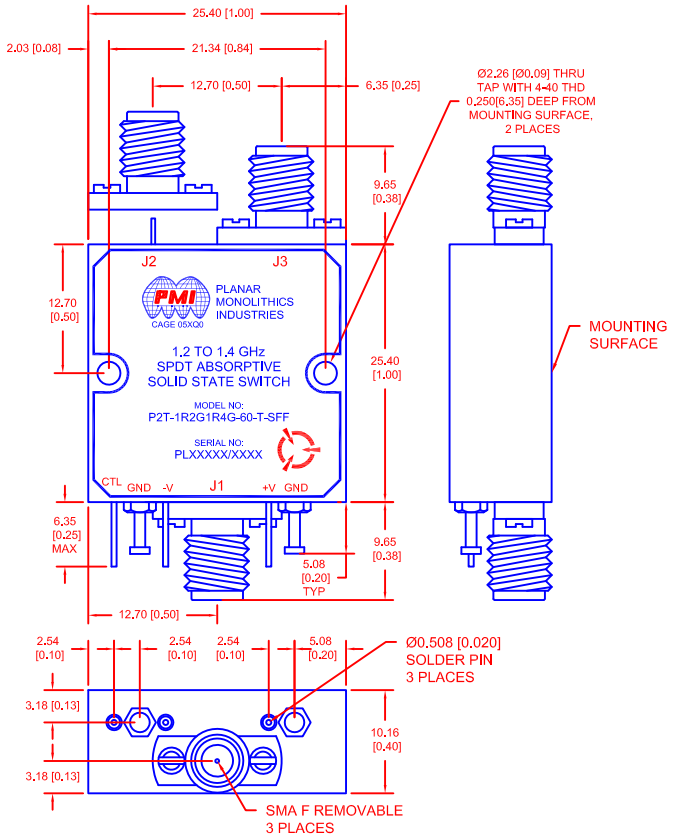
## ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO + 85°C (OPERATING)
  -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B - 95% RH
- SHOCK: MIL-STD-202F, METHOD 213B COND. B - 10G
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
  2-7Hz/IN Amplitude Max., 7-50Hz, 2.5G
- 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 mm [INCH] TOLERANCES:
X.XX ± 0.508 [0.020]
X.XXX ± 0.254 [0.010]

## MECHANICAL OUTLINE

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ISO 9001 CERTIFIED

| APPROVALS | DATE |
|---|---|
| DRAWN SPU | 8/31/16 |
| CHECKED | |
| ISSUED | |

TITLE
PRODUCT FEATURE
1.2 to 1.4 GHz 2-Way Absorptive Switch
P2T-1R2G1R4G-60-T-SFF

| SIZE | FSCM NO. | DWG NO. | REV. |
|---|---|---|---|
| A | 05XQ0 | 27030501 | 1 |

SCALE N:S SHEET 1 OF 1