

## DESCRIPTION

PMI MODEL P1T-12G18G-65-T-SFF IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 50 ns MAXIMUM. THE FREQUENCY RANGE IS 12.0 GHz TO 18.0 GHz. THIS SWITCH HAS > 65 dB ISOLATION.

## SPECIFICATIONS

- FREQUENCY RANGE: 12.0 GHz TO 18.0 GHz
- IMPEDANCE: 50  $\Omega$
- INPUT POWER: +30dBm MAX (SURVIVAL)  
+20dBm MAX (OPERATING)
- INPUT VSWR: 2.0:1 MAX
- INSERTION LOSS: 2.8dB MAX
- ISOLATION: 65dB MIN
- SWITCHING SPEED: 50ns MAX
- DC VOLTAGE: +5VDC, 20mA TYP.  
-15VDC, 40mA TYP.
- CONTROL: SOLDER PIN  
TTL COMPATIBLE  
"0" = INSERTION LOSS  
"1" = ISOLATION
- CONNECTORS IN/OUT: SMA (F)
- SIZE: (L) 1.0" X (W) 1.0" X (H) 0.5"
- 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.

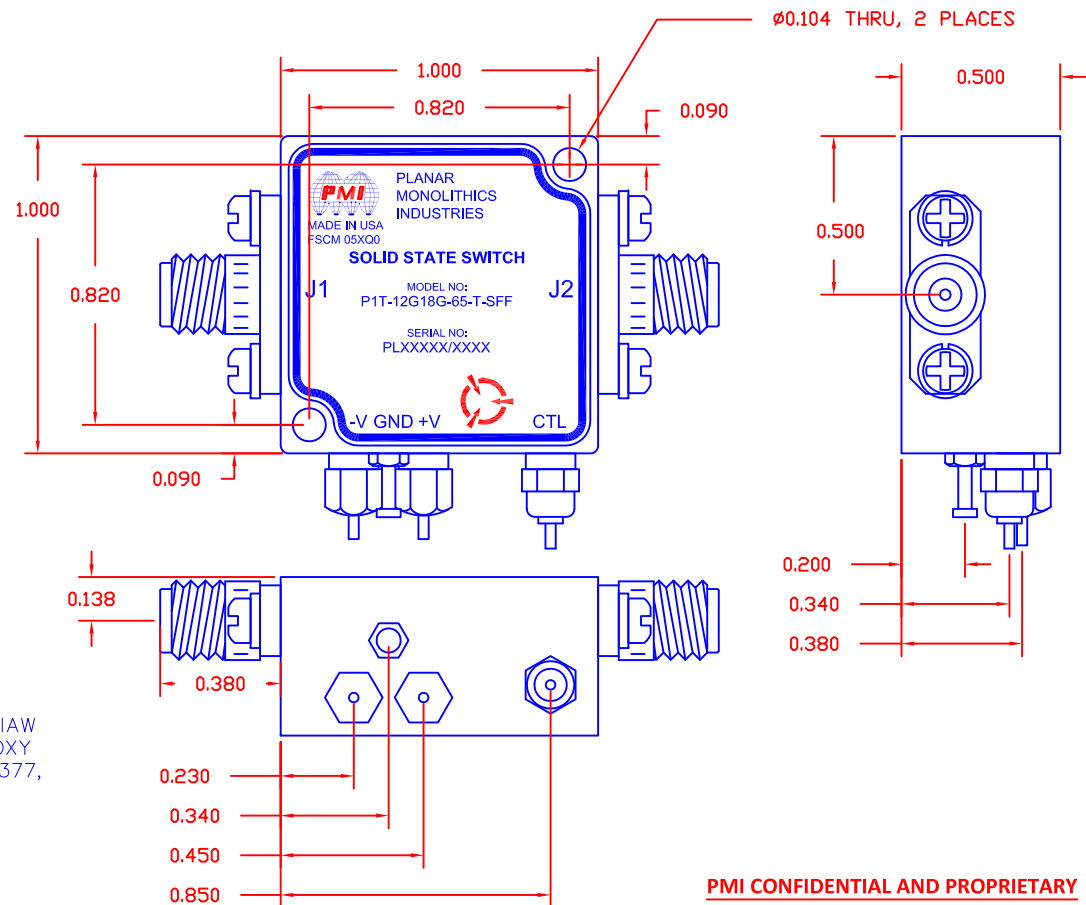
## ENVIRONMENTAL RATINGS

- 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

| REVISIONS |      |             |         |
|-----------|------|-------------|---------|
| ZONE      | REV. | DESCRIPTION | DATE    |
|           | —    | PRELIMINARY | 3/17/15 |
|           |      |             |         |
|           |      |             |         |

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



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

| APPROVALS |  | DATE    |  | TITLE               |  |        |  |
|-----------|--|---------|--|---------------------|--|--------|--|
| DRAWN     |  | 3/17/15 |  | PRODUCT FEATURE     |  |        |  |
| CHECKED   |  |         |  | P1T-12G18G-65-T-SFF |  |        |  |
| ISSUED    |  |         |  | PRELIMINARY         |  |        |  |
| SCALE     |  | N: S    |  | SIZE                |  | SHEET  |  |
|           |  |         |  | FSCM NO.            |  | 1 OF 1 |  |
|           |  |         |  | DWG NO.             |  |        |  |
|           |  |         |  |                     |  |        |  |