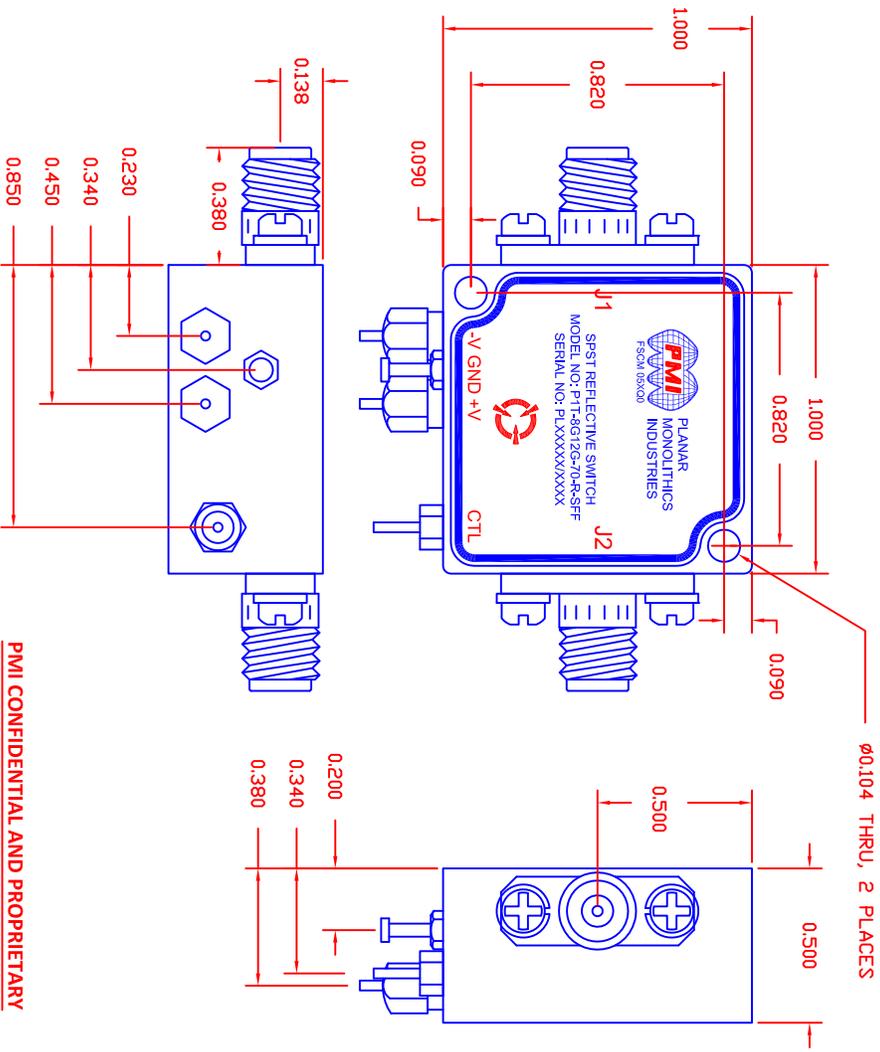


**DESCRIPTION**

PMI MODEL P1T-8G12G-70-R-SFF IS A REFLECTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 50 ns MAXIMUM. THE FREQUENCY RANGE IS 8.0 GHZ TO 12.0 GHZ. THIS SWITCH HAS > 70 DB ISOLATION.

| REVISIONS |      | DATE             | APPROVED |
|-----------|------|------------------|----------|
| ZONE      | REV. | DESCRIPTION      |          |
|           | 1    | ORIGINAL RELEASE | 10/12/15 |
|           | A1   | ECN # 16-0109    | 8/25/16  |

**MECHANICAL OUTLINE**



**SPECIFICATIONS**

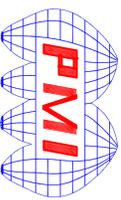
- FREQUENCY RANGE: 8.0 GHZ TO 12.0 GHZ
- IMPEDANCE: 50  $\Omega$
- INPUT POWER: +30dBm MAX (SURVIVAL)  
+20dBm MAX (OPERATING)
- INPUT VSWR: 1.8:1 TYP.
- INSERTION LOSS: 1.8dB TYP.
- ISOLATION: 70dB MIN
- SWITCHING SPEED: 50ns MAX
- DC VOLTAGE: +5VDC, 20mA TYP.  
-15VDC, 20mA TYP.
- CONTROL: SOLDER PIN  
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 1 OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE 1, 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 VARY DIVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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 ISO 9001 CERTIFIED



|                      |  |          |                        |                  |
|----------------------|--|----------|------------------------|------------------|
| APPROVALS            |  | DATE     | TITLE                  |                  |
| DRAWN: <i>S.A.B.</i> |  | 10/12/15 | PRODUCT FEATURE        |                  |
| CHECKED:             |  |          | P1T-8G12G-70-R-SFF     |                  |
| ISSUED:              |  |          | SIZE: FSCM NO. A 05X00 | DWG NO. 27027061 |
| SCALE: N: S          |  |          | SHEET: 1               | OF 1             |
|                      |  |          | REV: A1                |                  |

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