

## DESCRIPTION

PMI MODEL P2T-2G18G-60-T-SFF-PM-I-NG IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE TWO THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 2.0 GHz TO 18.0 GHz. THIS SWITCH HAS 60 dB ISOLATION.

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 2.0 GHz TO 18.0 GHz
- IMPEDANCE: \_\_\_\_\_ 50 Ω
- INPUT POWER: \_\_\_\_\_ +30 dBm MAX (SURVIVAL)  
+20 dBm MAX (OPERATING)
- VSWR: \_\_\_\_\_ 2.0:1 MAX
- INSERTION LOSS: \_\_\_\_\_ 3.0 dB MAX
- PHASE MATCHING: \_\_\_\_\_ 5 Degrees MAX
- ISOLATION: \_\_\_\_\_ 60 dB MIN
- SWITCHING SPEED: \_\_\_\_\_ 100 ns MAX
- DC VOLTAGE: \_\_\_\_\_ +5 VDC, 100 mA MAX.  
-16.2 VDC, 100 mA MAX.
- CONTROL: \_\_\_\_\_ SOLDER PIN  
TTL COMPATIBLE - SEE LOGIC TABLE
- CONNECTORS IN/OUT: \_\_\_\_\_ SMA (F)
- SIZE: \_\_\_\_\_ (L) 1.0" X (W) 1.0" X (H) 0.4"
- FINISH: \_\_\_\_\_ PAINTED BLUE

LOGIC TABLE

| CTL1 | CTL2 | J1 - J2 | J1 - J3 |
|------|------|---------|---------|
| 0    | 0    | OFF     | OFF     |
| 0    | 1    | OFF     | ON      |
| 1    | 0    | ON      | OFF     |
| 1    | 1    | ON      | ON      |

## ENVIRONMENTAL RATINGS

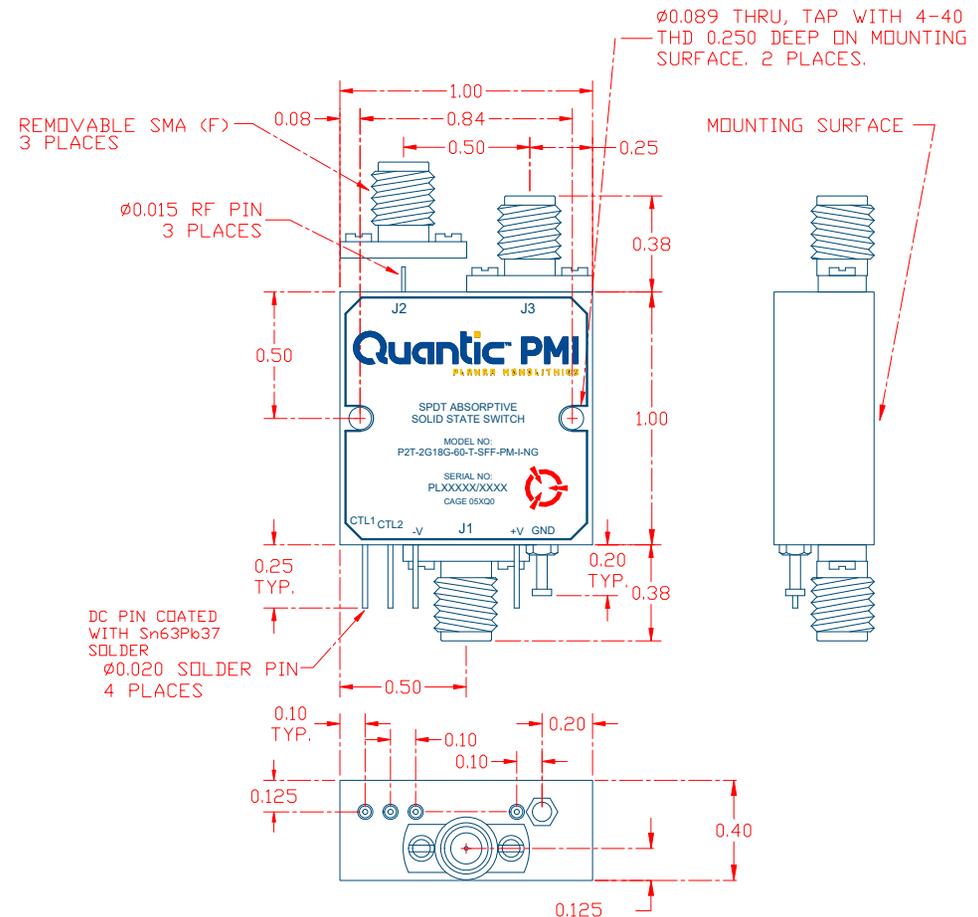
- TEMPERATURE: \_\_\_\_\_ -55°C TO + 85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD 105C COND.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

**PMI CONFIDENTIAL AND PROPRIETARY**

| REVISIONS |      |                  |          |          |
|-----------|------|------------------|----------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE     | APPROVED |
|           | A1   | ORIGINAL RELEASE | 10/24/22 |          |
|           | A2   | ECN # 24-0346    | 12/04/24 |          |
|           | B1   | ECN # 25-0253    | 8/29/25  |          |



7309-A GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: (301)-662-5019, FAX: (301)-662-1731  
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com  
ISO 9001 CERTIFIED

**Quantic PMI**  
PARALLEL MONOLITHICS

| APPROVALS                 |  | DATE     | TITLE   |                   |                     |
|---------------------------|--|----------|---|-------------------|---------------------|
| DRAWN<br><i>J. ESPANO</i> |  | 10/24/22 | PRODUCT FEATURE<br>P2T-2G18G-60-T-SFF-PM-I-NG |                   |                     |
| REDRAWN                   |  |          | SIZE<br>A                                     | FSCM NO.<br>05XQ0 | DWG NO.<br>27044760 |
| ISSUED                    |  |          | SCALE<br>N:S                                  | SHEET<br>1 OF 1   | REV.<br>B1          |