

## DESCRIPTION

THE MODEL P1T-6G18G-60-T-SFF-1W IS A HIGH SPEED, SINGLE POLE, SINGLE THROW, ABSORPTIVE SWITCH CAPABLE OF SWITCHING WITHIN 25ns WITH INPUT RF POWER LEVELS UP TO 1 WATT CW.. THE FREQUENCY RANGE IS 6.0 TO 18.0 GHz AND THIS SWITCH HAS OVER 60dB OF ISOLATION.

## SPECIFICATIONS:

- FREQUENCY RANGE: 6.0 TO 18.0 GHz
- INSERTION LOSS: 2.75dB MAXIMUM
- ISOLATION: 65dB MINIMUM
- VSWR (ON/OFF): 2.0:1 MAXIMUM, 1.5:1 GOAL
- SWITCHING SPEED: 25 ns TYPICAL  
(50% TTL TO 10/90% RF)
- OPERATING POWER: +30dBm MAXIMUM
- CONTROL: TTL LOGIC "0" = INSERTION LOSS  
TTL LOGIC "1" = ISOLATION
- POWER SUPPLY: +5V @ 50 mA MAXIMUM  
-15V @ 75 mA MAXIMUM
- CONNECTORS:  
RF: SMA FEMALE  
CONTROL: SOLDER PIN
- 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.
- SEALING: EPOXY SEALED

## OPTIONS:

- -HERM \_\_\_\_\_ HERMETIC SEALING

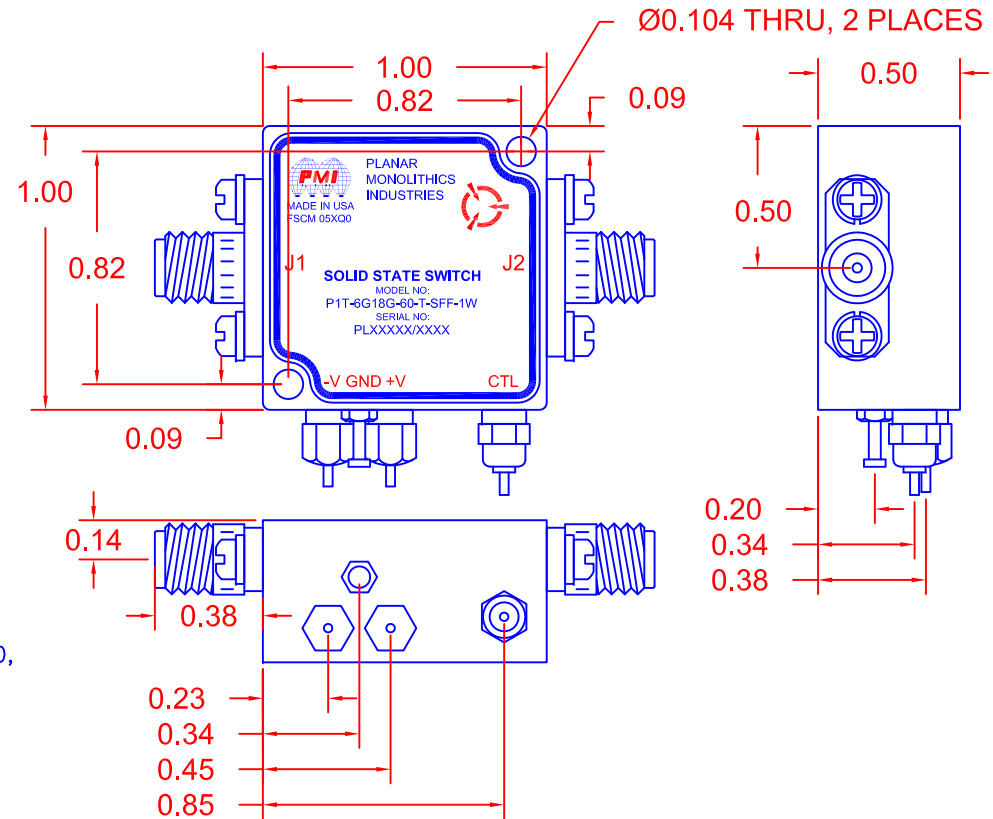
## ENVIRONMENTAL RATINGS:

- 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

| REVISIONS |      |                  |         |          |
|-----------|------|------------------|---------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE    | APPROVED |
|           | 1    | ORIGINAL RELEASE | 12/7/15 |          |



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



| APPROVALS                 |  | DATE    | TITLE                 |          |          |              |
|---------------------------|--|---------|-----------------------|----------|----------|--------------|
| DRAWN<br><i>B. Thomas</i> |  | 12/7/15 | PRODUCT FEATURE       |          |          |              |
| CHECKED                   |  |         | P1T-6G18G-60-T-SFF-1W |          |          |              |
| ISSUED                    |  |         | SIZE                  | FSCM NO. | DWG NO.  | REV.         |
|                           |  |         | A                     | 05XQ0    | 27028521 | 1            |
|                           |  |         | SCALE                 | N:S      |          | SHEET 1 OF 1 |