

## DESCRIPTION

PMI MODEL P2T-500M6G-40-R-5V-SFF-100W IS A SINGLE POLE TWO THROW, REFLECTIVE SWITCH THAT OPERATES OVER THE 0.5 TO 6.0 GHz FREQUENCY RANGE. THIS SWITCH HANDLES INPUT POWER OF 100 WATTS PULSED AND HAS A TYPICAL SWITCHING SPEED OF 100 ns.

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 0.5 TO 6.0 GHz
- INSERTION LOSS: ----- 2.5 dB MAXIMUM
- ISOLATION: ----- 40 dB TYPICAL
- VSWR: ----- 2.0:1 MAXIMUM
- SWITCHING SPEED: ----- 100 ns TYPICAL  
(50% TTL TO 10%/90% RF)
- CONTROL LOGIC: ----- SINGLE CONTROL TTL TOGGLE  
LOGIC "0" = J1 - J2 ON  
LOGIC "1" = J1 - J3 OFF
- RF CONNECTORS: ----- SMA FEMALE
- POWER SUPPLY: ----- +5 V @ 75 mA MAXIMUM
- RF POWER (OPERATING): ----- 100 WATTS PULSED  
(10% DUTY CYCLE, 20  $\mu$ s PULSE WIDTH)
- SIZE: ----- 1.20" (L) x 1.00" (W) x 0.50" (H)
- 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-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

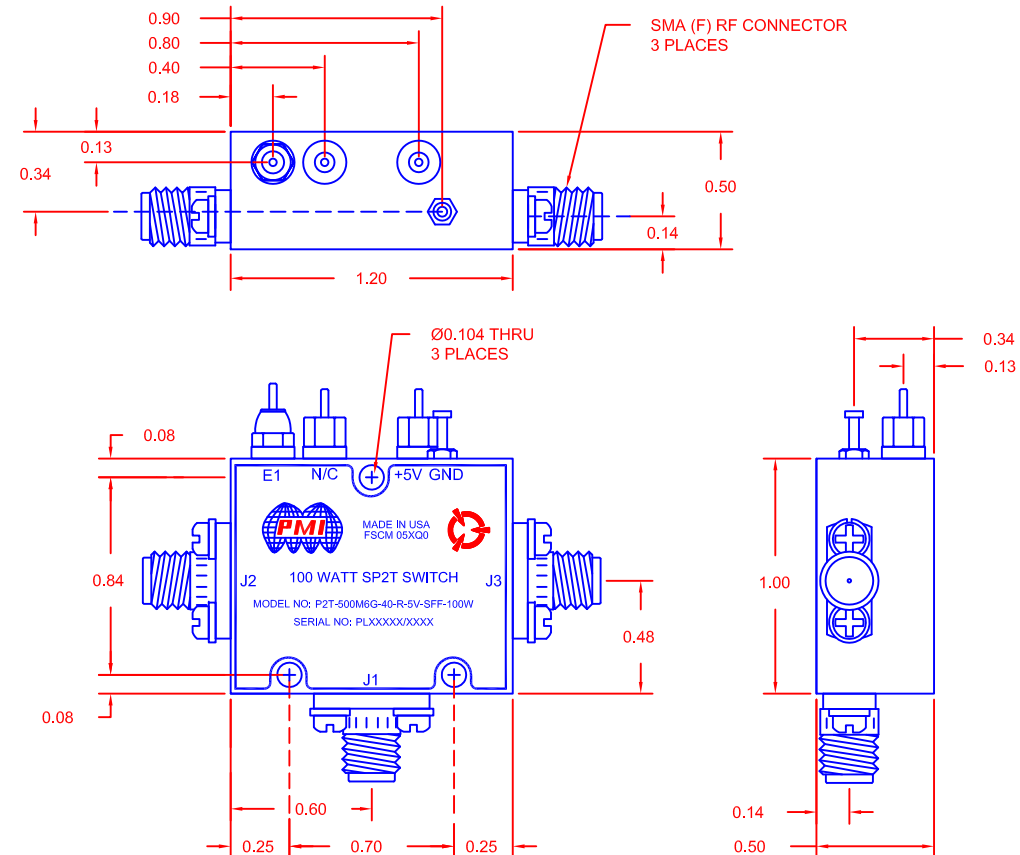
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES:  
X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010

| REVISIONS |      |             |          |          |
|-----------|------|-------------|----------|----------|
| ZONE      | REV. | DESCRIPTION | DATE     | APPROVED |
|           | -    | PRELIMINARY | 11/16/15 |          |
|           |      |             |          |          |
|           |      |             |          |          |

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



| APPROVALS             |  | DATE     | TITLE  |          |         |        |
|-----------------------|--|----------|--|----------|---------|--------|
| DRAWN <i>M. Berry</i> |  | 11/16/15 | PRODUCT FEATURE<br>P2T-500M6G-40-R-5V-SFF-100W |          |         |        |
| CHECKED               |  |          | SIZE   | FSCM NO. | DWG NO. | REV.   |
| ISSUED                |  |          | A  | 05XQ0    |         | -      |
|                       |  |          | SCALE  | N:S      | SHEET   | 1 OF 1 |