

DESCRIPTION

PMI MODEL P4T-500M18G-70-R-SFF-SP IS A REFLECTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.5 GHz TO 18 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

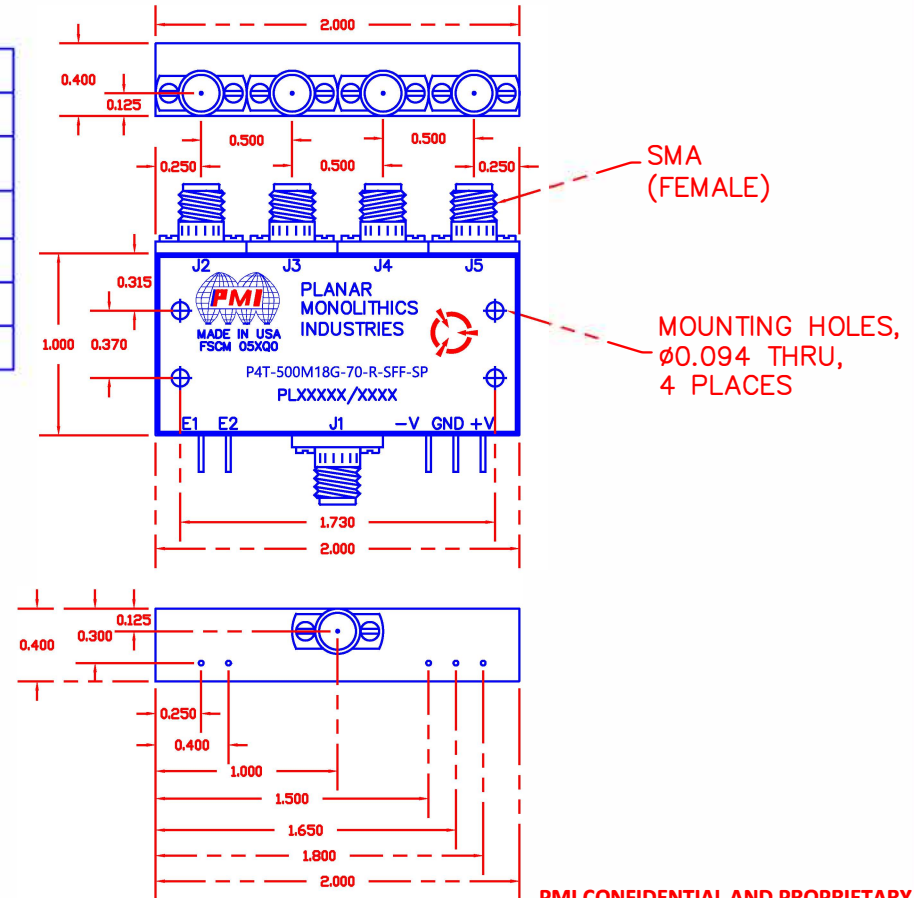
| REVISIONS | | | | |
|-----------|------|-------------|------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | - | PRELIMINARY | | |

SPECIFICATIONS

- FREQUENCY RANGE:.....0.5 TO 18 GHz
- ISOLATION:.....70 dB MIN
- INSERTION LOSS:.....3.5 dB MAX
- VSWR IN / OUT:.....2.0:1 MAX
- INPUT POWER:.....+23 dBm CW MAX
- SURVIVAL POWER:.....1 W PEAK 1 us
- RF SWITCHING SPEED:.....RISE: 15 ns MAX
FALL: 15 ns MAX
DELAY ON: 50 ns MAX
DELAY OFF: 50 ns MAX
- DC VOLTAGE:.....+5 V @ 250 mA MAX
-12 V @ 100 mA MAX
- CONTROL SIGNAL:.....TTL LOGIC
SEE LOGIC TABLE
- CONNECTORS IN/OUT:.....SMA FEMALE CONNECTORS
- CONTROL CONNECTORS:.....SOLDER PINS
- SIZE:.....(L) 2.0" X (W) 1.0" X (H) 0.4"
- 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.

| LOGIC TABLE | | |
|---------------|----|------------------|
| 2 BIT DECODER | | |
| E1 | E2 | FUNCTION |
| 0 | 0 | J1-J2 "Low Loss" |
| 0 | 1 | J1-J3 "Low Loss" |
| 1 | 0 | J1-J4 "Low Loss" |
| 1 | 1 | J1-J5 "Low Loss" |

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE:.....-45°C TO +85°C (OPERATING)
-57°C TO +125°C (STORAGE)

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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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| APPROVALS | | DATE | TITLE | | | |
|---------------------|--|---------|--|-------------------|------------------------|-----------|
| DRAWN <i>JPJ</i> | | 1/26/24 | PRODUCT FEATURE P4T-500M18G-70-R-SFF-SP | | | |
| CHECKED | | | SIZE A | FSCM NO. 05XQ0 | DWG NO. PRELIMINARY | REV. - |
| ISSUED | | | SCALE N: S | SHEET 1 OF 1 | | |