

## DESCRIPTION

PMI MODEL NUMBER: P4T-500M18G-80-T-SFF-IND IS A 500MHz TO 18GHz, SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH. THIS SWITCH OFFERS 80dB OF PORT TO PORT ISOLATION, AND A MAXIMUM INSERTION LOSS OF 3.75 dB. IT HAS A SWITCHING SPEED OF 25ns AND IS INDEPENDENTLY TTL CONTROLLED. THE OPERATING POWER IS +20dBm CW AND THE VSWR IS 2:1 MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: . . . . . 500MHz TO 18 GHz
  - INSERTION LOSS: . . . . . 3.75 dB MAX
  - ISOLATION: . . . . . 80 dB TYP
  - VSWR: . . . . . 2:1 MAX
  - SWITCHING SPEED: . . . . . 50% TTL TO 10%/90% RF  
25 ns TYP
  - INPUT POWER: . . . . . +20 dBm CW
  - SURVIVAL POWER: . . . . . +23 dBm CW
  - CONTROL TTL: . . . . . 4 LINE INDEPENDENT  
LOGIC "0" = INSERTION LOSS  
LOGIC "1" = ISOLATION
  - POWER SUPPLY: . . . . . +12 VDC @ 100mA \*  
-12 VDC @ 125mA \*
  - RF CONNECTORS: . . . . . SMA FEMALE
  - CONTROL, POWER, AND GROUND: . . . . FEEDTHRU - Ø0.030 TYP
  - SIZE: . . . . . (L) 2.0" X (W) 1.0" X (H) 0.4"
  - FINISH: . . . . . GOLD PLATED
- \* VOLTAGE REGULATION & REVERSE BIAS PROTECTION INCLUDED

## ENVIRONMENTAL RATINGS

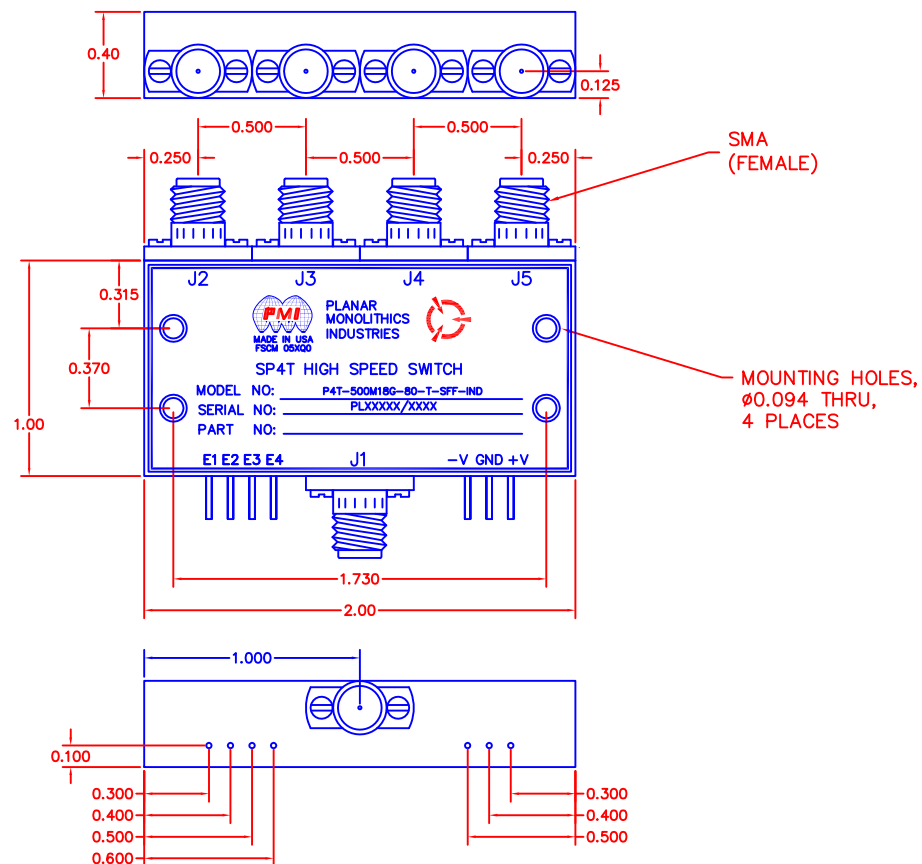
- TEMPERATURE: . . . . . -40°C TO + 85°C (OPERATING)  
-55°C TO +125°C (STORAGE)
- HUMIDITY: . . . . . MIL-STD-202F, METHOD 103B COND. B
- SHOCK: . . . . . MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: . . . . . MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: . . . . . MIL-STD-202F, METHOD 105C COND. 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	PRELIMINARY	6/17/14	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN DPD		6/17/14	PRODUCT FEATURE P4T-500M18G-80-T-SFF-IND		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N: S	SHEET 1 OF 1	