

## DESCRIPTION

PMI MODEL P4T-18G40G-110-T-512-292FF-IND IS AN ABSORPTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 18.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

## SPECIFICATIONS

- FREQUENCY RANGE:.....18.0 TO 40.0 GHz
- ISOLATION:.....110dB Typ., 100dB Min. (0.3 to 18 GHz)  
100dB Typ., 90dB Min. (18 to 26.5 GHz)  
90dB Typ., 80dB Min. (0.1 to 0.3 & 26.5 to 40 GHz)
- INSERTION LOSS:.....5.25dB Typ , 6dB Max. (0.3 to 18 GHz)  
6.25dB Typ., 8dB Max. (0.1 to 0.3 & 18 to 26.5 GHz)  
7.25dB Typ., 10dB Max. (26.5 to 40 GHz)
- VSWR:.....2.0:1 Typ., 2.75:1 Max
- OPERATING INPUT POWER:.....+20 dBm CW MAX
- RF SWITCHING SPEED:.....100ns Max
- DC VOLTAGE:.....+5V @ 200 mA MAX  
-12V @ 100 mA MAX
- CONTROL SIGNAL:.....4 LINE TTL "0" = INSERTION LOSS & "1" = ISOLATION
- CONNECTORS IN/OUT:.....2.92mm FEMALE CONNECTORS
- CONTROL:.....SOLDER PINS
- SIZE:.....(L)2.0" X (W)1.0" X (H)0.4"
- FINISH:.....GOLD PLATED

## ENVIRONMENTAL RATINGS

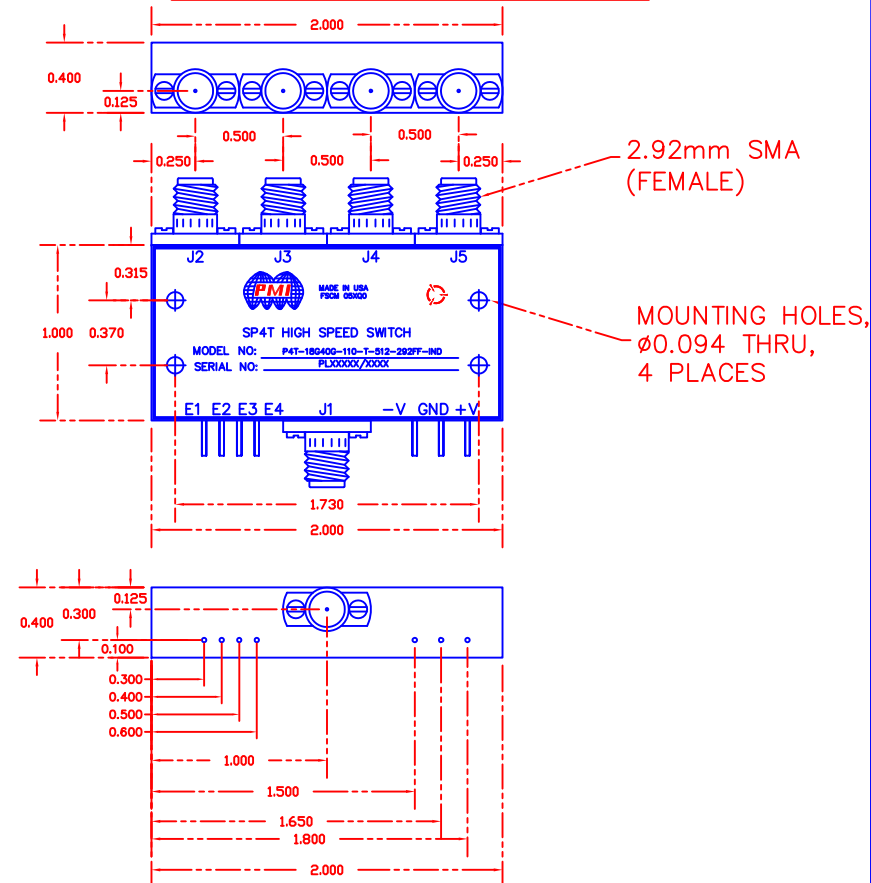
- TEMPERATURE:.....-40°C TO +85°C (OPERATING)  
-55°C TO +125°C (STORAGE)
- HUMIDITY:.....MIL-STD-202F, METHOD 103B COND. B
- SHOCK:.....MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:.....MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:.....MIL-STD-202F, METHOD 105C COND. B
- SALT FOG:.....MIL-STD-202F, METHOD 107D COND. A
- FUNGUS:.....MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE:.....MIL-STD-202F, METHOD 107

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
	-	PRELIMINARY	10/23/15	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>VR</i>		08/13/14	PRODUCT FEATURE P4T-18G40G-110-T-512-292FF-IND		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N: S		REV. A1
					SHEET 1 OF 1