

DESCRIPTION

PMI MODEL P4T-100M40G-90-T-512-292FF IS AN ABSORPTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 40 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 40 GHz
- ISOLATION: 100dB Goal (0.1 to 18 GHz)
90dB Goal (18 to 26.5 GHz)
85dB Goal (26.5 to 40 GHz)
- INSERTION LOSS: 6dB Typ (0.1 to 18 GHz)
8dB Typ (18 to 26.5 GHz)
10dB Typ (26.5 to 40 GHz)
- VSWR: 2.5:1 Goal, 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: 2 BIT DECODED TTL
SEE LOGIC TABLE
- 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

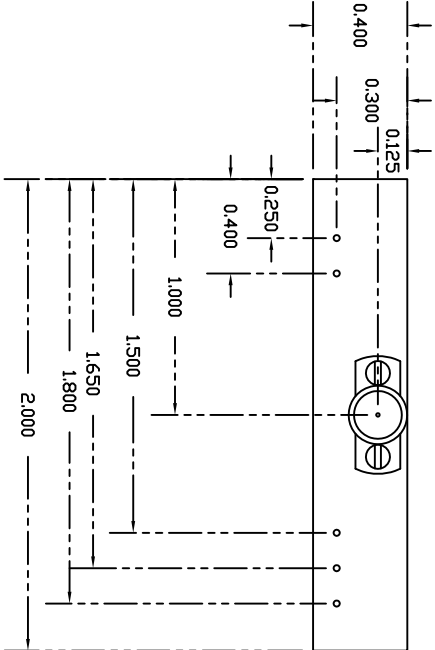
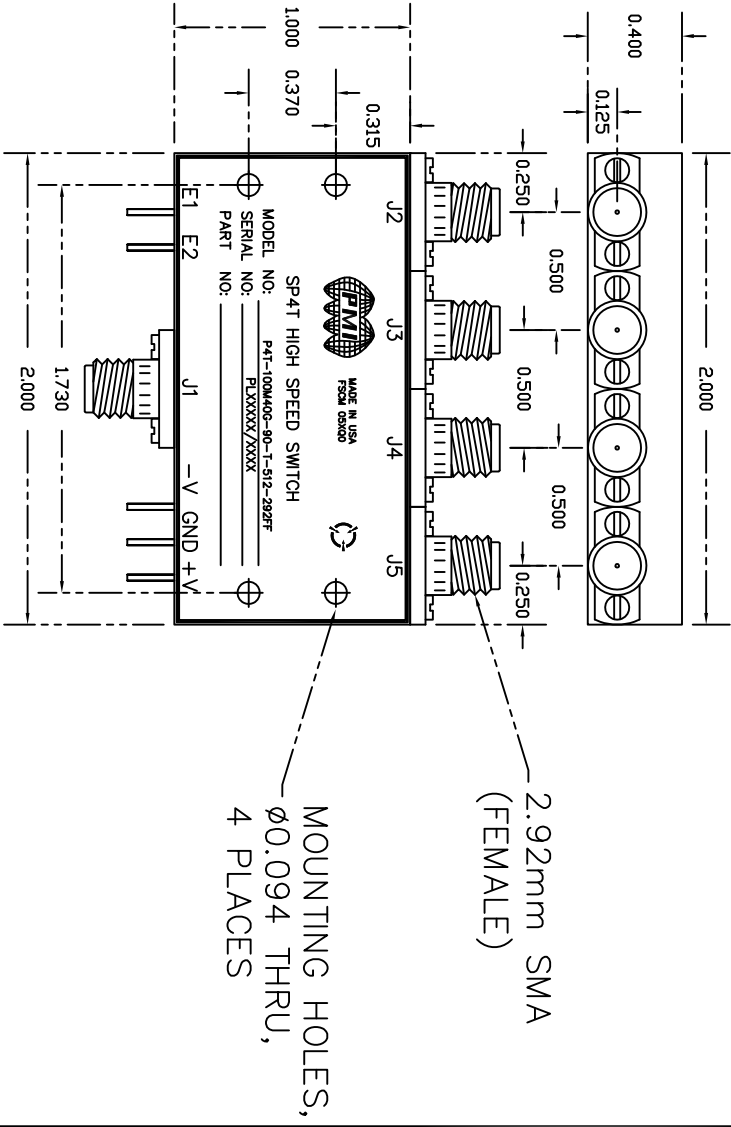
LOGIC TABLE			
2 BIT DECODER			
E1	E2	FUNCTION	
0	0	J1-J2 "Low Loss"	
0	1	J1-J3 "Low Loss"	
1	0	J1-J4 "Low Loss"	
1	1	J1-J5 "Low Loss"	

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	2/13/13	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE		
DRAWN <i>gfk</i>		02/13/13		PRODUCT FEATURE		
CHECKED				P4T-100M40G-90-T-512-292FF		
ISSUED						
SCALE N:S		A 05X00		FSCM NO. DWG NO.		REV. A
				27018041		1 OF 1