

DESCRIPTION

PMI MODEL P4T-500M40G-60-T-55-292FF-SP REV B IS AN ABSORPTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.5 GHz TO 40 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE:..... 0.5 TO 40 GHz
- ISOLATION:..... 60 dB MIN
- INSERTION LOSS: 8.0 dB MAX
- VSWR IN / OUT: 2.5 : 1 MAX, 2.0 : 1 TYP
- INPUT POWER:..... +20 dBm CW MAX
- SURVIVAL POWER: 1W PEAK 1us
- RF SWITCHING SPEED: RISE: 15ns MAX
FALL: 15ns MAX
DELAY ON: 50ns MAX
DELAY OFF: 50ns MAX
- DC VOLTAGE:..... +5 VDC @ 250 mA MAX
-5 VDC @ 100 mA MAX
- CONTROL SIGNAL:..... TTL LOGIC
SEE LOGIC TABLE
- CONNECTORS IN/OUT:..... 2.92mm FEMALE CONNECTORS
- CONTROL CONNECTORS: SOLDER PINS
- 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

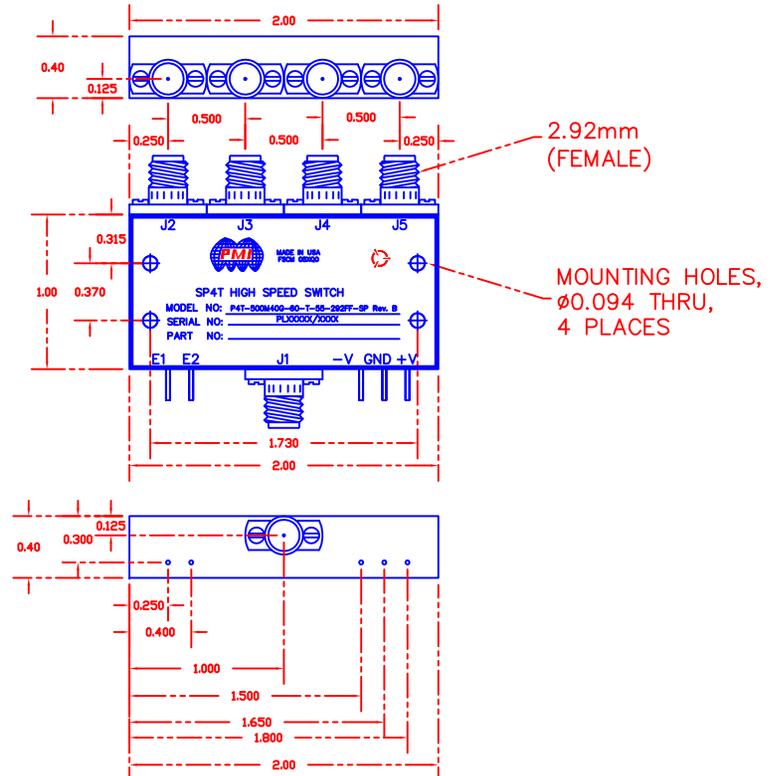
- **TEMPERATURE:**..... -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- **HUMIDITY:**..... MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:**..... MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:**..... MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:**..... MIL-STD-202F, METHOD 105C COND. B
- **SALT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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	07/23/10	
	B1	NEW DESIGN	02/14/11	
	B2	ECN # 13-0072	06/25/13	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>KM</i>		07/23/10	PRODUCT FEATURE			
CHECKED			P4T-500M40G-60-T-55-292FF-SP Rev. B			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27013621-B	B2
			SCALE N: S			SHEET 1 OF 1