

DESCRIPTION

PMI MODEL NUMBER: P4T-50M40G-55-T-515-292FF IS A 50MHz TO 40GHz, SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH. THIS SWITCH OFFERS 55dB OF PORT TO PORT ISOLATION, AND A MAXIMUM INSERTION LOSS OF 8dB. IT HAS A SWITCHING SPEED OF 100ns AND IS INDEPENDENTLY TTL CONTROLLED. THE OPERATING POWER IS +20dBm CW AND THE TYPICAL VSWR IS 2.5:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 50MHz TO 40GHz
- INSERTION LOSS: 8dB MAX
- ISOLATION: 55dB MIN
- VSWR: 2.5:1 MAX
- SPEED: 50% TTL TO 10%/90% RF
85ns TYP, 100ns MAX
- INPUT POWER: +20dBm CW
- SURVIVAL POWER: 0.5W CW, 5W PEAK, 1us
- CONTROL TTL: 4 LINE INDEPENDENT
LOGIC "0" = INSERTION LOSS
LOGIC "1" = ISOLATION
- POWER SUPPLY: +5 VDC @ 150mA
-15 VDC @ 150mA
- RF CONNECTORS: 2.92mm FEMALE FOR LOW LEAKAGE
- CONTROL, POWER, AND GROUND: FEEDTHRU - ϕ 0.030 TYP
- RF LEAKAGE: SMA & PINS = \leq -100dB PER MIL-C-39012
- SIZE: (L) 2.0" X (W) 1.0" X (H) 0.4"
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS

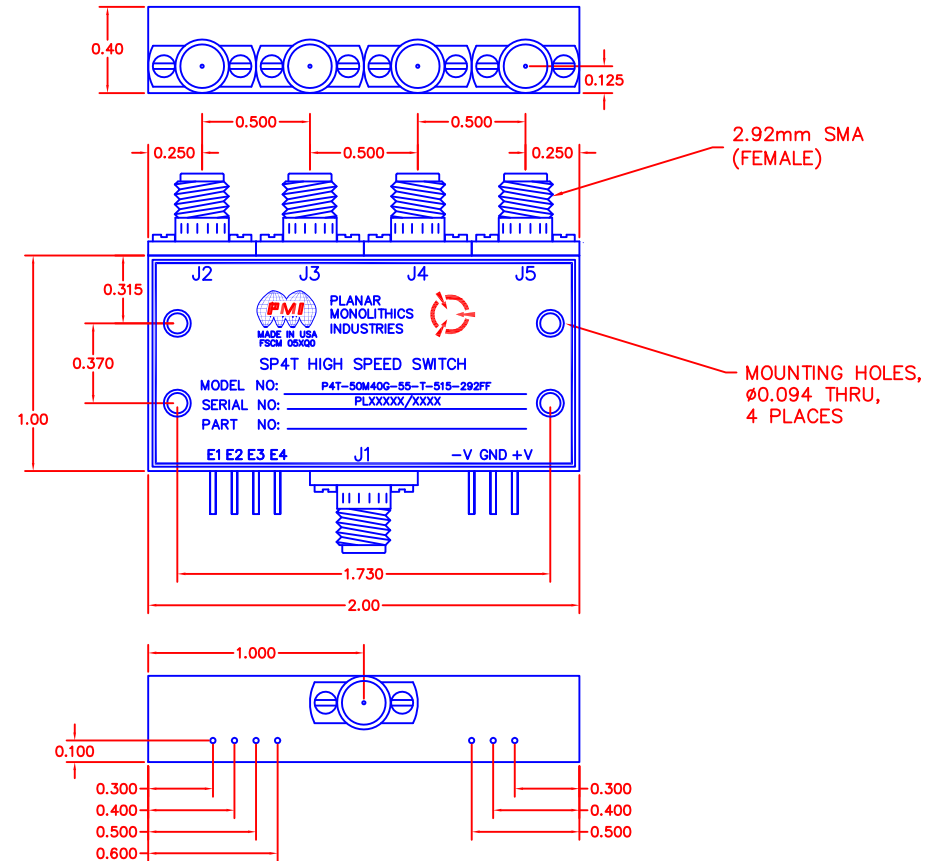
- TEMPERATURE: -40°C TO + 85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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 \pm 0.020
X.XXX \pm 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	11/6/11	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>DPD</i>		11/6/11	PRODUCT FEATURE P4T-50M40G-55-T-515-292FF			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	1
ISSUED			SCALE	N: S	SHEET	1 OF 1