

DESCRIPTION

PMI MODEL NUMBER: P4T-50M40G-55-T-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: +12 TO +15VDC @ 150mA *
-12 TO -15VDC @ 100mA *
 - RF CONNECTORS: 2.92mm FEMALE FOR LOW LEAKAGE
 - CONTROL, POWER, AND GROUND: FEEDTHRU - Ø0.030 TYP
 - RF LEAKAGE: SMA & PINS = <-100dB PER MIL-C-39012
 - SEALING: EPOXY SEALED
 - SIZE: (L) 2.0" X (W) 1.0" X (H) 0.4"
 - FINISH: GOLD PLATED
- * VOLTAGE REGULATION & REVERSE BIAS PROTECTION INCLUDED

ENVIRONMENTAL RATINGS

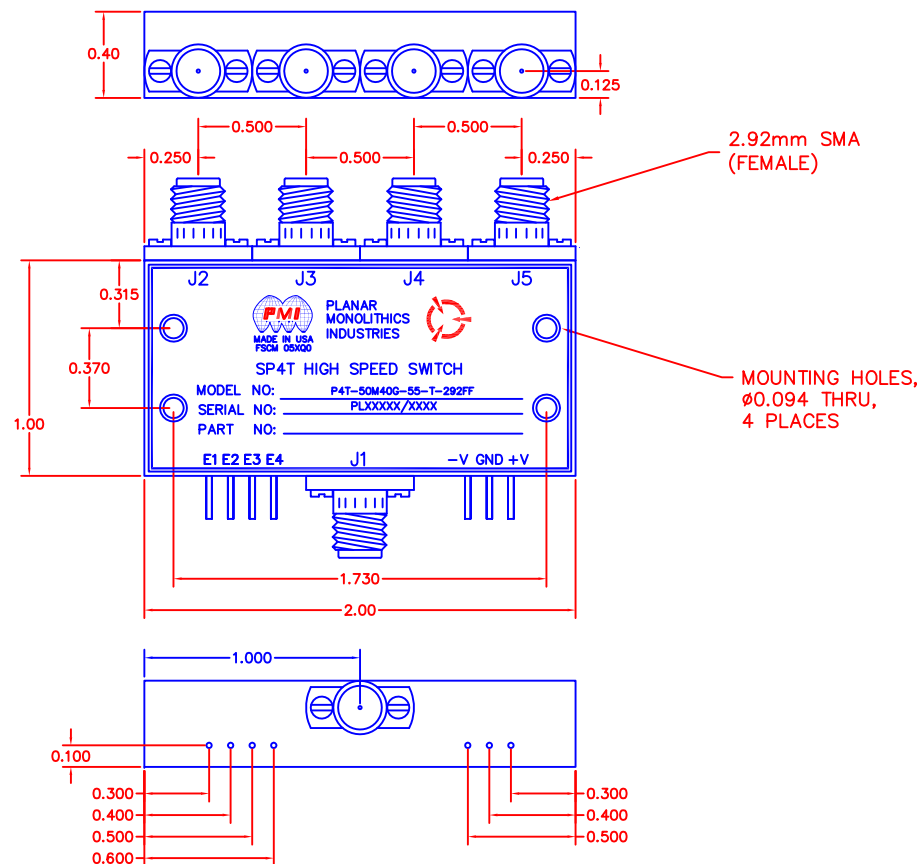
- TEMPERATURE: -40°C TO + 85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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
	A1	ORIGINAL RELEASE	04/22/13	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>sfc</i>		04/22/13	PRODUCT FEATURE P4T-50M40G-55-T-292FF			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27018971	A1
ISSUED			SCALE	N: S	SHEET	1 OF 1