

## DESCRIPTION

PMI MODEL NUMBER: P4T-8G12G-60-55-SFF-HERM IS A 8.0 TO 12.0 GHz, SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH. THIS SWITCH OFFERS 60 dB OF PORT TO PORT ISOLATION, AND A MAXIMUM INSERTION LOSS OF 2.2 dB. IT HAS A SWITCHING SPEED OF 50 ns AND IS INDEPENDENTLY TTL CONTROLLED. THE OPERATING POWER IS +24 dBm CW AND THE VSWR IS 2.0:1 MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: 8.0 GHz TO 12.0 GHz
- INSERTION LOSS: 2.2 dB TYP
- ISOLATION: 60 dB MIN
- VSWR: 1.5:1 MAX
- SPEED: 50 ns MAX
- SWITCHING RATE PRF: 5 MHz
- INPUT POWER: +24 dBm CW MAX
- CONTROL TTL: 4 LINE INDEPENDENT
- LOGIC "0" = INSERTION LOSS / (1.6mA Max. Sink @ 0.4V)
- LOGIC "1" = ISOLATION / (40uA Max. Source @ 2.4V)
- POWER SUPPLY: +5 VDC @ 120mA MAX
- 5 VDC @ 75mA MAX
- IMPEDANCE: 50 OHMS
- RF CONNECTORS: SMA(F) - Passive Stainless Steel
- CONTROL, POWER, AND GROUND: SOLDER PINS
- SEALING: HERMETIC SEALED
- SIZE: (L) 2.0" X (W) 1.0" X (H) 0.4"
- FINISH: GOLD PLATED

## ENVIRONMENTAL RATINGS

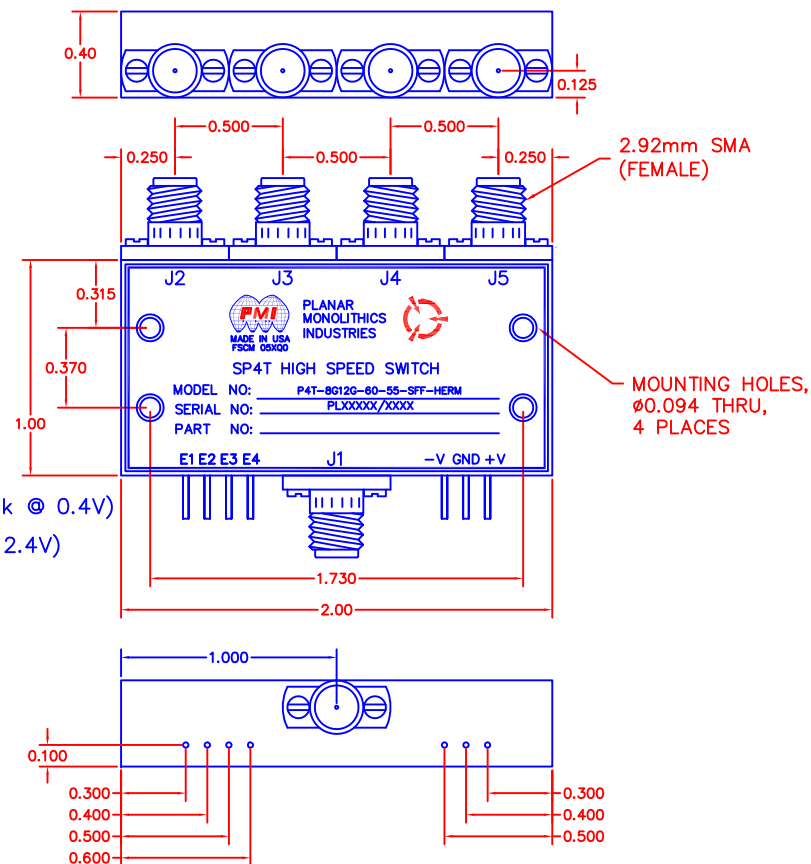
- TEMPERATURE: -54°C TO +85°C (OPERATING)
- 65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. G
- SALT FOG: MIL-STD-202F, METHOD 101D+EST COND. B
- FUNGUS: MIL-STD-810F, METHOD 508.5

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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	-	PRELIMINARY	07/15/15

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		07/15/15		PRODUCT FEATURE			
CHECKED				P4T-8G12G60-55-SFF-HERM			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				-	05XQ0	PRELIMINARY	-
				SCALE	N: S	SHEET	1 OF 1