

DESCRIPTION

PMI MODEL: P1T-LIM-9G9D5G-70-T-PIN IS AN ABSORPTIVE 2 WATT SINGLE POLE, SINGLE THROW SWITCH WITH AN INTEGRATED LIMITER AT THE INPUT THAT OPERATES OVER THE 9.0 TO 9.2 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 70 dB ISOLATION AND A MAXIMUM INSERTION LOSS OF 1.7 dB IN A COMPACT 1.35" x 0.62" x 0.34" HOUSING.

SPECIFICATIONS @ +25°C

- FREQUENCY RANGE: ----- 9.0 TO 9.2 GHz MIN
- INSERTION LOSS: ----- 1.7 dB MAX @ -10 dBm MAX
- VSWR (ON/OFF, INTO 50 Ω): - 1.5:1 MAX @ -10 dBm MAX
- ISOLATION: ----- 70 dB MIN
- FLAT LEAKAGE: ----- +13 dBm MAX
- P1dB: ----- 0 dBm MIN
- RECOVERY TIME: ----- 100 ns TYP (3 dB, 10 W CW)
- SWITCHING SPEED: ----- 150 ns (FROM 50% TTL TO 10%/90% RF)
- POWER HANDLING (CW): ----- 2 W MAX*
- POWER HANDLING (PEAK): -- 100 W MAX* @ 50 μs PULSE WIDTH
400 W MAX* @ 1 μs PULSE WIDTH
- CONTROL LOGIC: ----- 1 = LOW LOSS, 0 = ISOLATION (5V CMOS)
- CONNECTORS: ----- +5V @ 50 mA MAX (+7V SURVIVAL MAX)
-5V @ 50 mA MAX (-10V SURVIVAL MAX)
- SIZE: ----- 1.35" x 0.62" x 0.34"
- FINISH: ----- GOLD PLATED

*: POWER RATING @ 25°C, DERATE LINEARLY TO ZERO @ 150°C. HIGH POWER TEST DURATION: FULL RATED POWER FOR 10 SECONDS.

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)
-40 °C TO +85 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. A
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

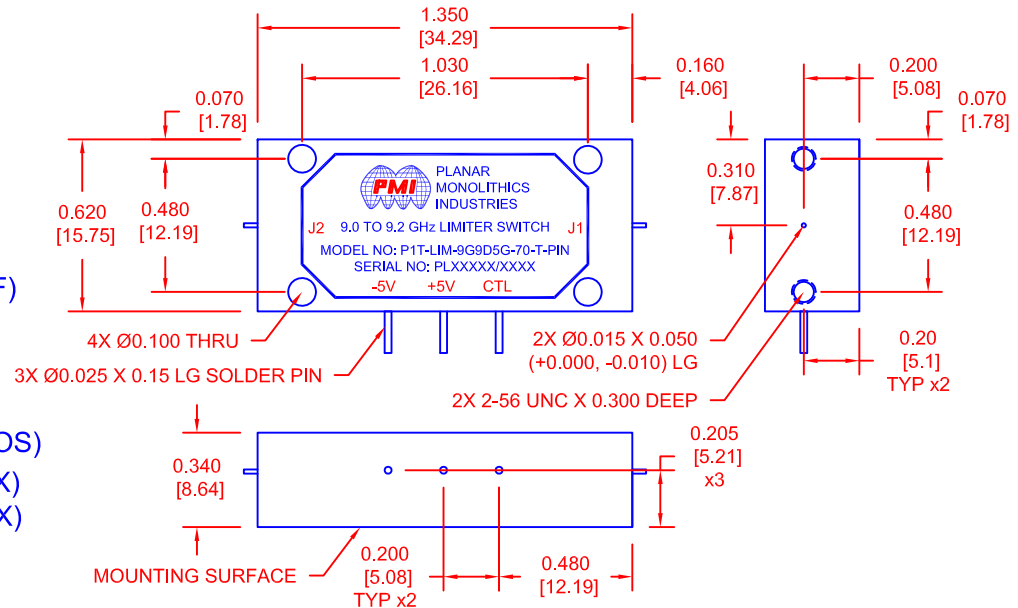
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/09/17	

MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			REV.
DRAWN <i>M. Berry</i>		11/09/17	PRODUCT FEATURE P1T-LIM-9G9D5G-70-T-PIN 9.0 to 9.2 GHz Drop-In Limiter Switch			-
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
ISSUED			SCALE N:S		SHEET 1 OF 1	