

DESCRIPTION

PMI MODEL P2T-100M50G-100-T IS AN ABSORPTIVE, SINGLE POLE TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 50 GHz FREQUENCY RANGE. IT FEATURES LOW INSERTION LOSS AND HIGH ISOLATION IN A SLIMLINE PACKAGE. THIS MODEL ALSO INCORPORATES A TTL COMPATIBLE DRIVER FOR EASE OF SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY: 0.1 TO 50 GHz
- INSERTION LOSS: 4.5 dB (0.1 TO 18 GHz) MAX
6.0 dB (18 TO 40 GHz) MAX
8.5 dB (40 TO 50 GHz) MAX
- VSWR: 2.2:1 (0.1 TO 18GHz) MAX
2.5:1 (18 TO 40 GHz) MAX
3.0:1 (40 TO 50 GHz) MAX
- ISOLATION: 85 dB (0.1 TO 18 GHz) MIN
85 dB (18 TO 40 GHz) MIN
70 dB (40 TO 50 GHz) MIN
- INPUT POWER: 20 dBm CW MAX
- SWITCHING SPEED: 50 ns MAX
- CONTROL SIGNAL: TTL LOGIC "0" = J1-J2 ON
TTL LOGIC "1" = J1-J3 ON
- DC VOLTAGE: +5 V @ 100 mA MAX
-5 V @ 100 mA MAX
- RF CONNECTORS: 2.4 mm FEMALE
- SIZE: 1.0" X 0.75" X 0.4"
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °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. 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

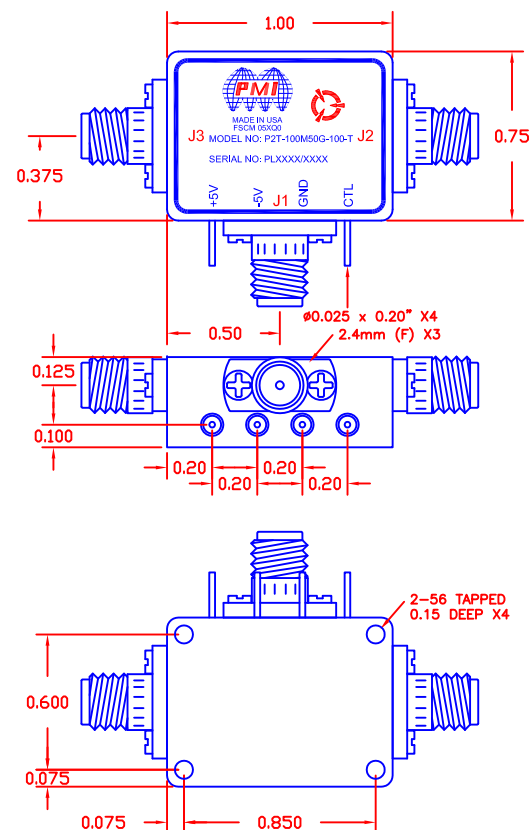
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	8/25/15	PK
	A1	ECN# 17-0276	12/04/17	
	B1	ECN# 21-0143	9/9/21	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		5/14/15		PRODUCT FEATURE	
CHECKED				P2T-100M50G-100-T	
ISSUED					
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27027760	B1		
SCALE		N:S		SHEET 1 OF 1	