

## DESCRIPTION

PMI MODEL P2T-100M50G-100-T-OPT40 IS AN ABSORPTIVE, SINGLE POLE TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 40 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 40 GHz
- INSERTION LOSS: 4.5 dB (0.1 TO 18 GHz) MAX  
6.0 dB (18 TO 40 GHz) MAX
- VSWR: 2.2:1 (0.1 TO 18GHz) MAX  
2.5:1 (18 TO 40 GHz) MAX
- ISOLATION: 85 dB (0.1 TO 18 GHz) MIN  
80 dB (18 TO 40 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: 2.92 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

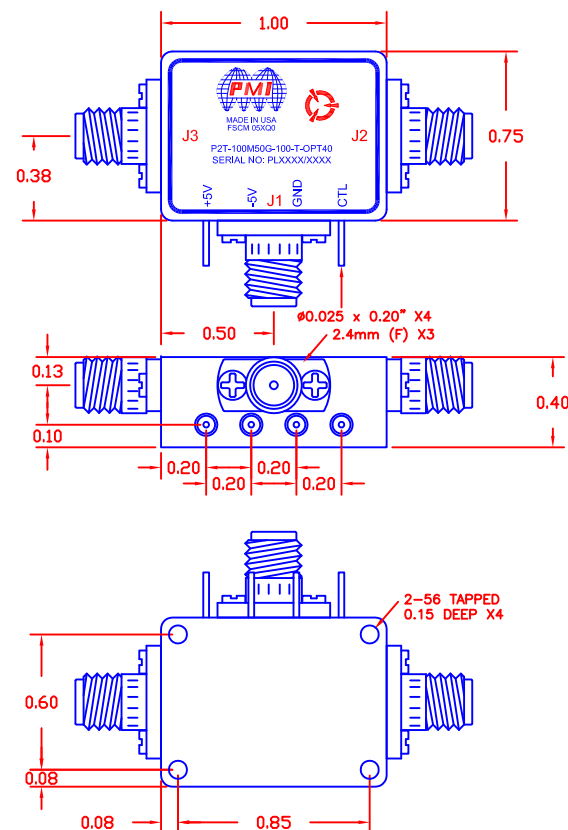
ALL DIMENSIONS ARE IN INCHES

TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/10/22	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		11/3/21		OUTLINE	
CHECKED				P2T-100M50G-100-T-OPT40	
ISSUED					
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27043320	A1		
SCALE		N:S		SHEET 1 OF 1	