

## DESCRIPTION

PMI MODEL P2T-100M52G-100-T-OPT52D7 IS AN ABSORPTIVE, SINGLE POLE TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 52.7 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 52.7 GHz
- INSERTION LOSS: \_\_\_\_\_ 5.0 dB (0.1 TO 18 GHz) TYP  
6.0 dB (18 TO 40 GHz) TYP  
10.0 dB (40 TO 52.7 GHz) TYP
- VSWR: \_\_\_\_\_ 2.2:1 (0.1 TO 18GHz) TYP  
2.5:1 (18 TO 40 GHz) TYP  
3.0:1 (40 TO 52.7 GHz) TYP
- ISOLATION: \_\_\_\_\_ 70 dB (0.1 TO 1 GHz) TYP  
100 dB (1 TO 18 GHz) TYP  
100 dB (18 TO 40 GHz) TYP  
80 dB (40 TO 52.7 GHz) TYP
- 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: \_\_\_\_\_ 1.85 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

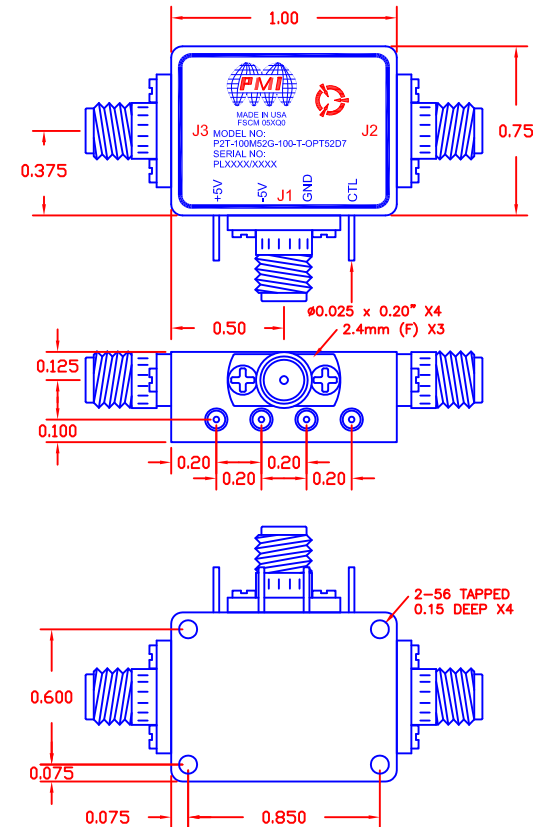
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/27/19	
	1	UPDATED SPECS	10/2/19	

## MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			
DRAWN <i>JPH</i>		2/27/19	PRODUCT FEATURE P2T-100M52G-100-T-OPT52D7			
REDRAWN <i>EW</i>		9/27/19	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	1
			SCALE	SHEET		1 OF 1