

## DESCRIPTION

PMI MODEL P4T-100M20G-100-T-RD IS AN ABSORPTIVE, SINGLE POLE FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 20 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 20 GHz
- INSERTION LOSS: \_\_\_\_\_ 5.0 dB TYP
- INPUT & OUTPUT VSWR: \_\_\_\_\_ 2.2:1 TYP
- ISOLATION: \_\_\_\_\_ 70 dB (0.1 TO 1 GHz) TYP  
100 dB (1 TO 20 GHz) TYP
- INPUT POWER: \_\_\_\_\_ 20 dBm CW MAX
- SWITCHING SPEED: \_\_\_\_\_ 50 ns MAX
- CONTROL SIGNAL: \_\_\_\_\_ SEE TTL LOGIC TABLE
- DC VOLTAGE: \_\_\_\_\_ +5 V @ 200 mA MAX  
-5 V @ 200 mA MAX
- RF CONNECTORS: \_\_\_\_\_ SMA (F)
- SIZE: \_\_\_\_\_ 1.25" X 1.25" X 0.40"
- 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

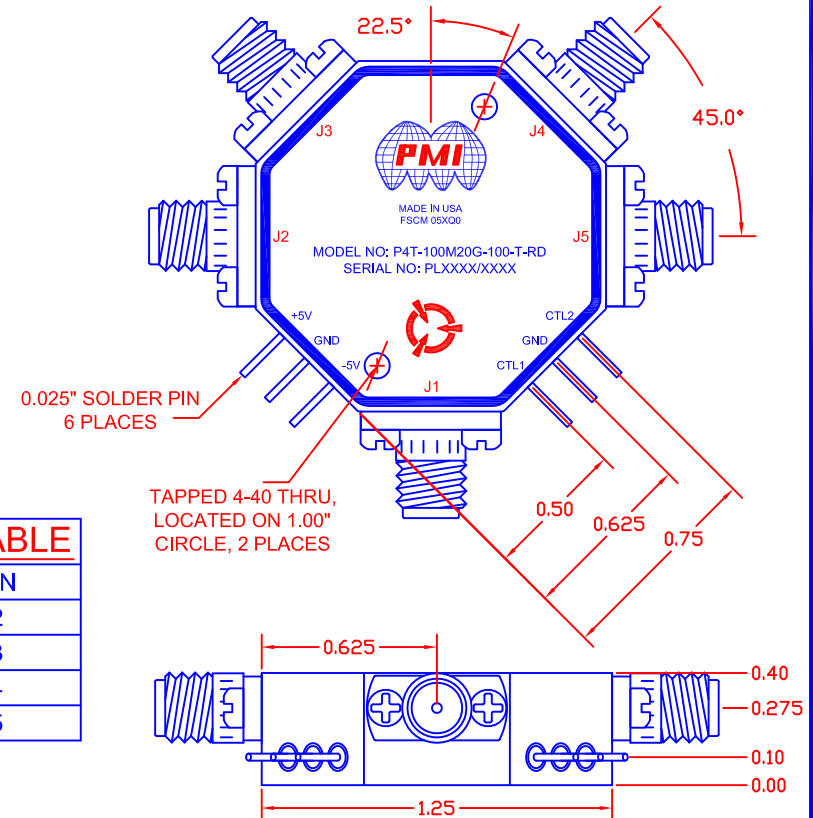
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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	4/4/16	

## MECHANICAL OUTLINE



## TTL LOGIC CONTROL TABLE

CTL 2	CTL 1	FUNCTION
0	0	J1 TO J2
0	1	J1 TO J3
1	0	J1 TO J4
1	1	J1 TO J5

## PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS		DATE	TITLE		
DRAWN <i>E.M.F.</i>		4/4/16	PRODUCT FEATURE P4T-100M20G-100-T-RD		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S		SHEET 1 OF 1