

## DESCRIPTION

PMI MODEL P4T-100M50G-100-T-RD-292-OPT40 IS AN ABSORPTIVE, SINGLE POLE FOUR 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

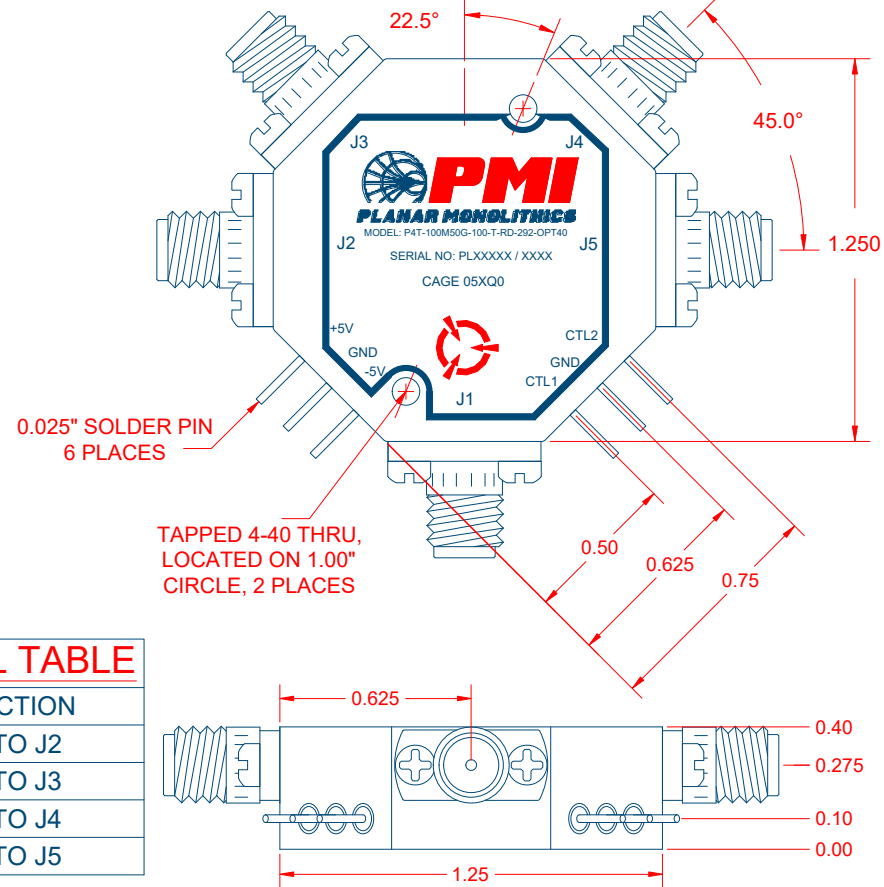
- FREQUENCY:** 0.1 TO 40 GHz
- INSERTION LOSS:** 4.0 dB (0.1 TO 18 GHz) MAX  
7.0 dB (18 TO 40 GHz) MAX
- INPUT & OUTPUT VSWR:** 2.0:1 (0.1 TO 18 GHz) MAX  
2.25:1 (18 TO 40 GHz) MAX
- ISOLATION:** 80 dB (0.1 TO 1 GHz) MIN  
90 dB (1 TO 18 GHz) MIN  
75 dB (18 TO 40 GHz) MIN
- INPUT POWER:** 20 dBm CW 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:** 2.92 mm FEMALE
- 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-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. B
- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	XX/XX/XX	
	C1	ECN # 22-0168	05/25/23	
	D1	ECN # 26-0032	02/27/26	



## 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

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APPROVALS		DATE	TITLE			
DRAWN <i>MER</i>		09/26/16	OUTLINE P4T-100M50G-100-T-RD-292-OPT40			
REDRAWN <i>SPU</i>		01/27/17	SIZE A	FSCM NO. 05XQ0	DWG NO. 27032641	REV. D1
ISSUED			SCALE N:S	SHEET 1 OF 1		