

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 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

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

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

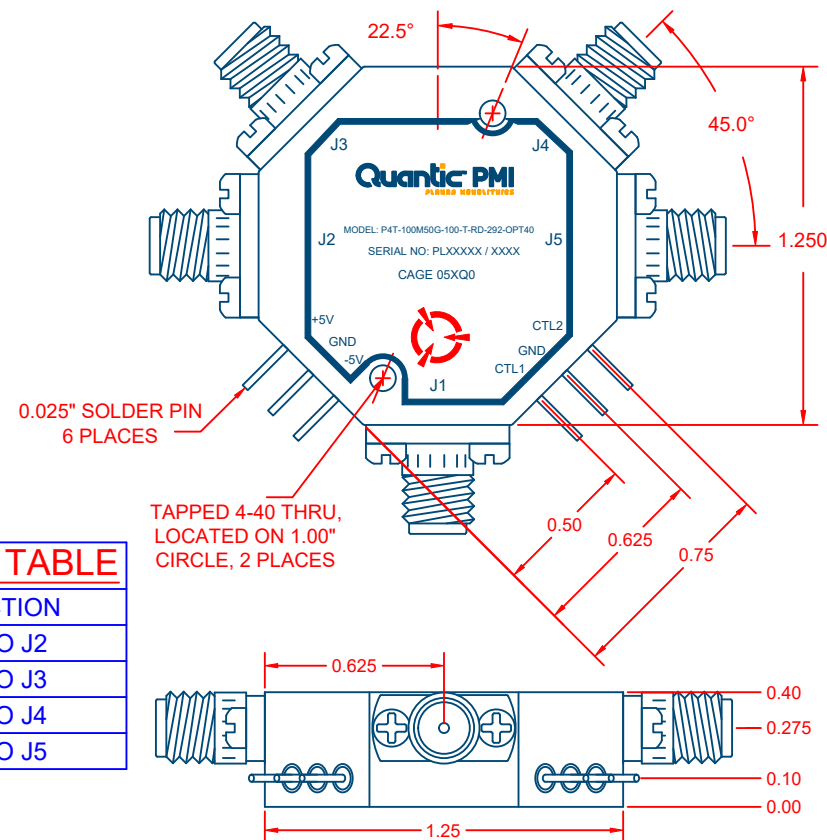
ALL DIMENSIONS ARE IN INCHES

TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	04/27/17	
	B1	ECN # 22-0168	05/25/23	
	C1	ECN # 25-0062	03/03/25	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		MEB		09/26/16		PRODUCT FEATURE	
REDRAW		SPU		04/27/17		P4T-100M50G-100-T-RD-292-OPT40	
ISSUED							
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		27032641		C1	
SCALE		N:S				SHEET	
						1 OF 1	