

DESCRIPTION

PMI MODEL P4T-100M50G-100-R-RD-292-OPT40 IS A REFLECTIVE, 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: 3.5 dB (0.1 TO 18 GHz) MAX
6.0 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: 70 dB (0.1 TO 1 GHz) TYP
100 dB (1 TO 18 GHz) TYP
100 dB (18 TO 40 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: 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-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

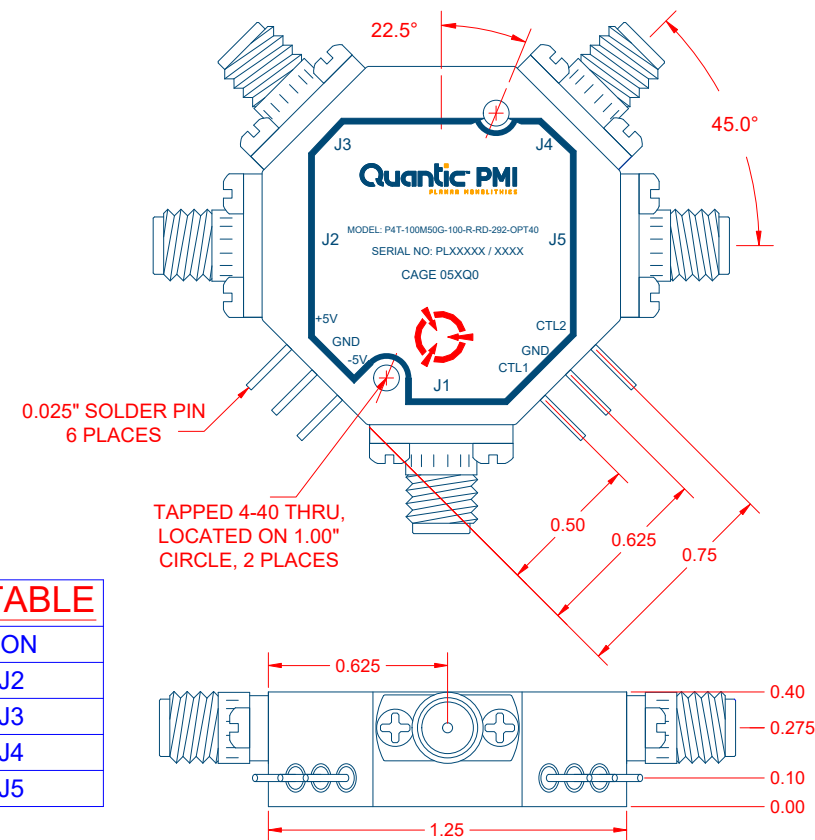
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	05/01/17	
	A1	ECN # 17-0242	10/12/17	
	B1	ECN # 22- 0168	05/24/23	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>MEB</i>		09/26/16	PRODUCT FEATURE P4T-100M50G-100-R-RD-292-OPT40		
REDRAW <i>SPU</i>		05/01/17	SIZE A	FSCM NO. 05XQ0	DWG NO. 27032661
ISSUED					REV. B1
SCALE N:S			SHEET 1 OF 1		