

DESCRIPTION

PMI MODEL P4T-100M50G-100-T-RD-OPT24G45G IS AN ABSORPTIVE, SINGLE POLE FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 24 GHz TO 45 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: _____ 24 TO 45 GHz
- INSERTION LOSS: _____ 8.0 dB (24 TO 40 GHz) TYP
14.0 dB (40 TO 45 GHz) TYP
- INPUT & OUTPUT VSWR: _____ 2.5:1 (24 TO 40 GHz) TYP
3.0:1 (40 TO 45 GHz) TYP
- ISOLATION: _____ 100 dB (24 TO 40 GHz) TYP
80 dB (40 TO 45 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: _____ 2.4 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

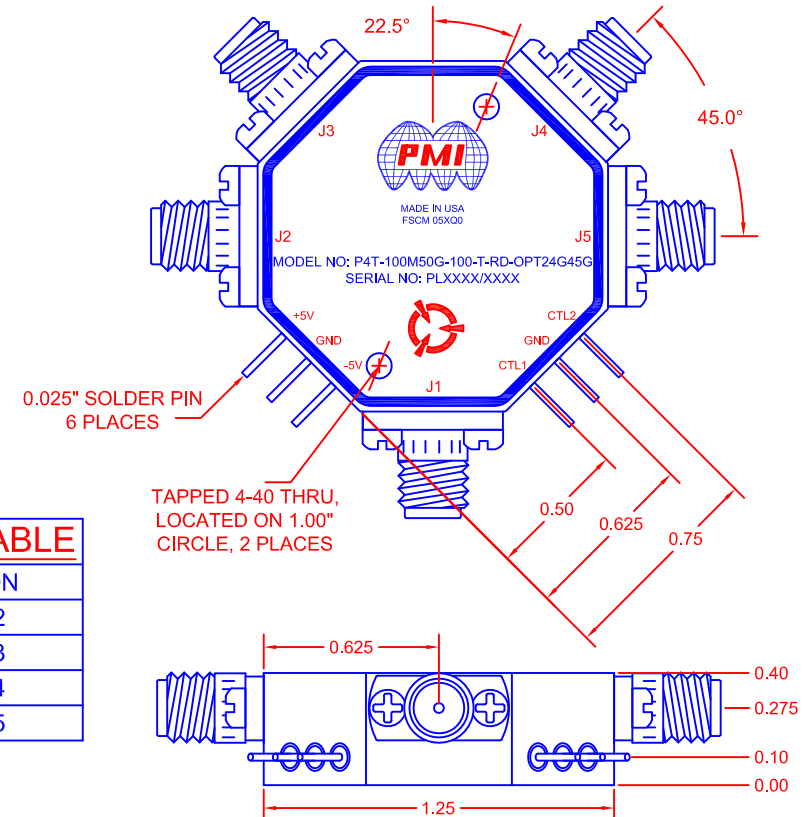
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/7/18	

MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			
DRAWN <i>MSB</i>		09/26/16	PRODUCT FEATURE P4T-100M50G-100-T-RD-OPT24G45G			
REDRAWN <i>EW</i>		12/7/18	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
			SCALE	SHEET		1 OF 1
			N:S			