

DESCRIPTION

PMI MODEL P2T-100M50G-100-T-I IS AN ABSORPTIVE, SINGLE POLE TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 50 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 50 GHz
- INSERTION LOSS: _____ 5.0 dB (0.1 TO 18 GHz) TYP
6.0 dB (18 TO 40 GHz) TYP
9.0 dB (40 TO 50 GHz) TYP
- VSWR: _____ 2.2:1 (0.1 TO 18GHz) TYP
2.5:1 (18 TO 40 GHz) TYP
3.0:1 (40 TO 50 GHz) TYP
- ISOLATION: _____ 70 dB (0.1 TO 1 GHz) TYP
100 dB (1 TO 18 GHz) TYP
100 dB (18 TO 40 GHz) TYP
80 dB (40 TO 50 GHz) TYP
- INPUT POWER: _____ 20 dBm CW MAX
- SWITCHING SPEED: _____ 50 ns MAX
- CONTROL SIGNAL: _____ TTL LOGIC (SEE TRUTH TABLE)
- DC VOLTAGE: _____ +5 V @ 100 mA MAX
-5 V @ 100 mA MAX
- RF CONNECTORS: _____ 2.4 mm FEMALE
- SIZE: _____ 1.0" X 0.75" X 0.4"
- FINISH: _____ GOLD PLATED

TRUTH TABLE		
CTL 2	CTL 1	STATE
0	0	ALL OFF
0	1	J1-J2 ON / J3 OFF
1	0	J1-J3 ON / J2 OFF
1	1	ALL ON

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

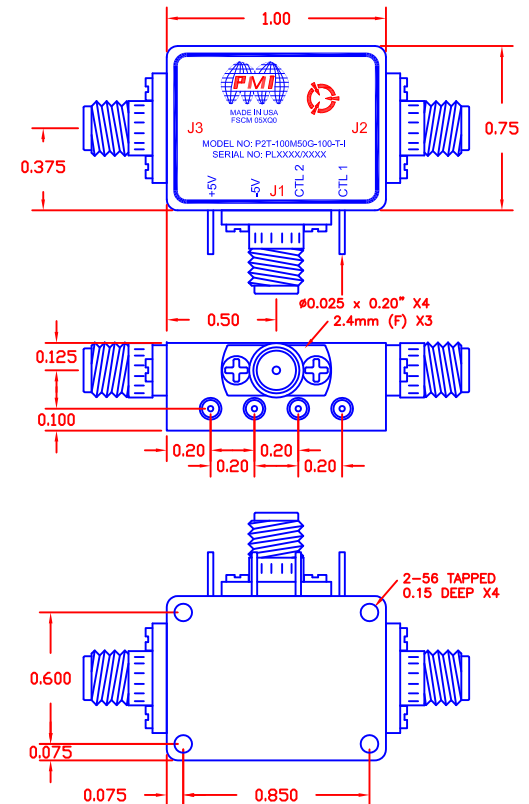
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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	5/18/21	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
JPH		5/18/21	PRODUCT FEATURE P2T-100M50G-100-T-I			-
CHECKED			SIZE	FSCM NO.	DWG NO.	
ISSUED			A	05XQ0	PRELIMINARY	
			SCALE	N:S		SHEET 1 OF 1