

DESCRIPTION

PMI MODEL P2T-4G8G-70-T-SFF-OPT7R7G8R5G IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE TWO THROW SWITCH CAPABLE OF SWITCHING WITHIN 1 μ s. THE FREQUENCY RANGE IS 7.7 TO 8.5 GHz. THIS SWITCH HAS 25 dB MINIMUM ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 7.7 TO 8.5 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: +30 dBm MAX (SURVIVAL)
+20 dBm MAX (OPERATING)
- INPUT VSWR: 1.8:1 TYP
- INSERTION LOSS: 1.9 dB MAX
- ISOLATION: 25 dB MIN
- SWITCHING SPEED: 1 μ s MAX
- AMPLITUDE IMBALANCE: 0.5 dB BETWEEN PORTS OVER FREQUENCY
- PHASE IMBALANCE: $\pm 3^\circ$ BETWEEN PORTS OVER FREQUENCY
- DC VOLTAGE: +5 VDC, 100 mA TYP
-15 VDC, 100 mA TYP
- POWER HANDLING: 0 dBm MAX
- SWITCHING PULSE FREQUENCY & AMPLITUDE: 1 kHz OR 500 Hz PULSE, TTL LOGIC W/ COMPATIBLE DRIVER
- CONTROL: SOLDER PIN
TTL COMPATIBLE - SEE LOGIC TABLE
- CONNECTORS IN/OUT: SMA (F)
- SIZE: (L) 1.0" X (W) 1.0" X (H) 0.4"
- FINISH: BLUE EPOXY POLIMIDE COATING IAW
MIL-C-22750, TYPE I OVER EPOXY POLIMIDE
PRIMER IAW MIL-P-23377,
TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°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

LOGIC TABLE

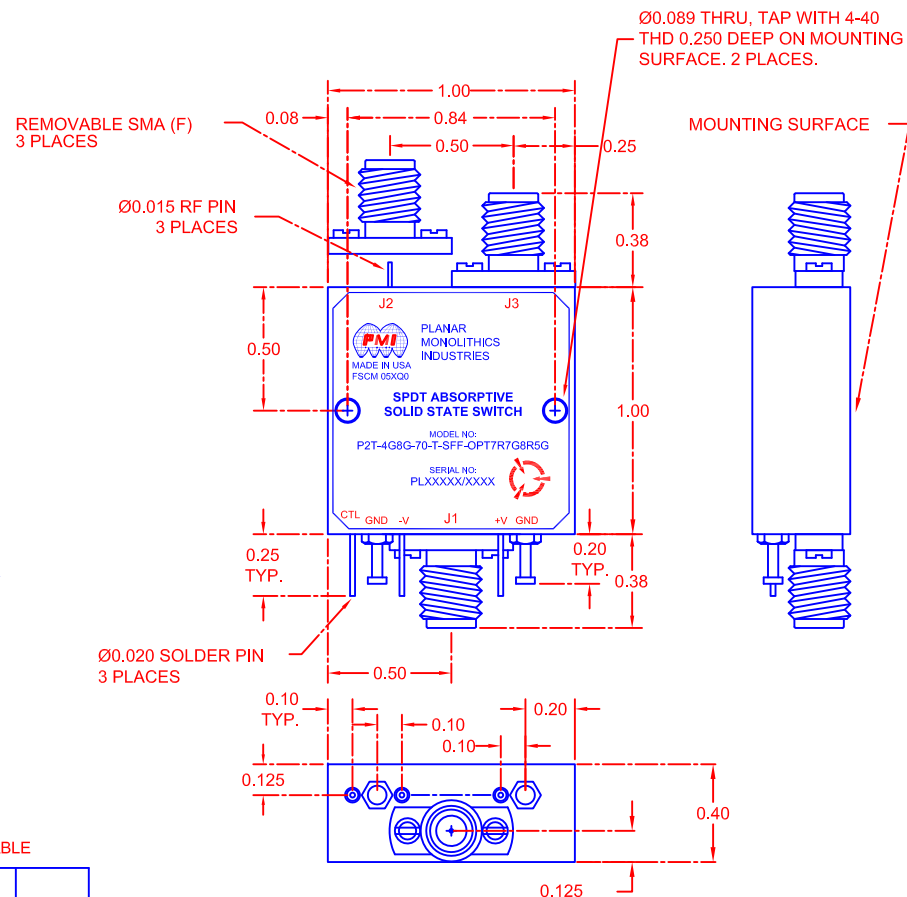
CTL	J1 - J2	J1 - J3
0	ON	OFF
1	OFF	ON

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	8/8/16	
	A1	ECN # 16-0186	12/05/16	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS		DATE		TITLE	
DRAWN <i>B. Thomas</i>		8/8/16		PRODUCT FEATURE	
CHECKED				P2T-4G8G-70-T-SFF-OPT7R7G8R5G	
ISSUED					
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27029531	A1		
SCALE	N:S	SHEET	1 OF 1		