

**DESCRIPTION:**

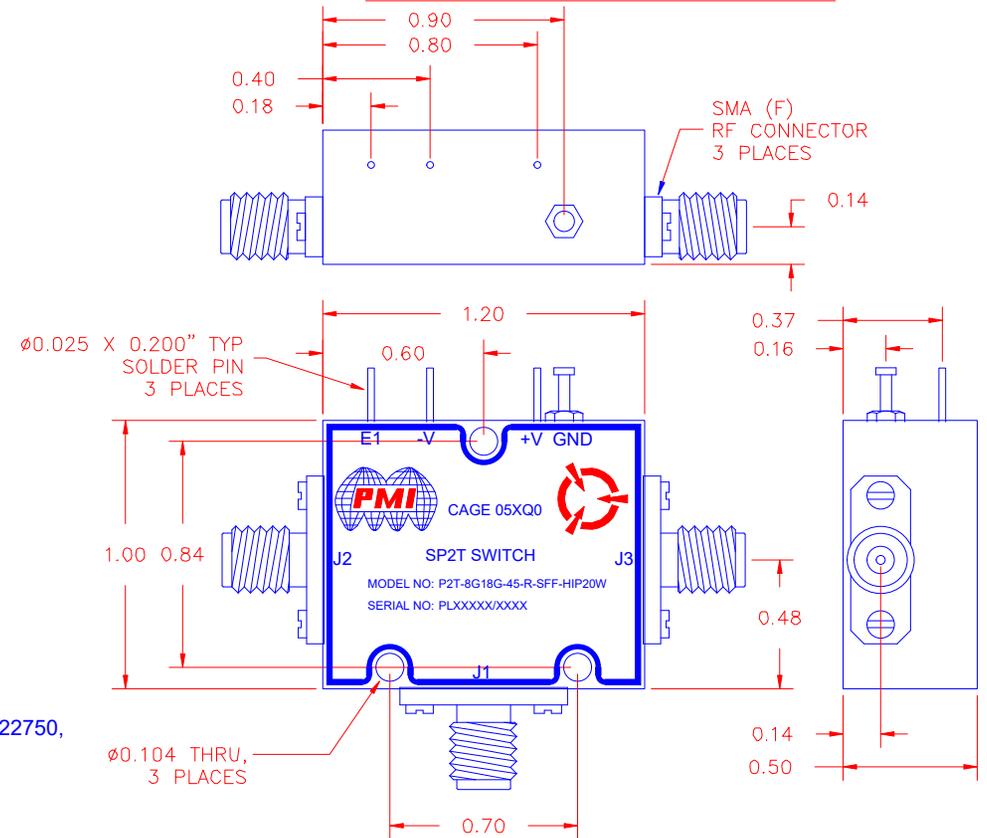
PMI MODEL: P2T-8G18G-45-R-SFF-HIP20W IS A HIGH POWER (20 WATT) SINGLE POLE TWO THROW, REFLECTIVE SWITCH MODULE WITH LOW INSERTION LOSS AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 8 GHz TO 18 GHz OPERATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	03/22/13	
	A2	ECN # 13-0141	09/05/13	
	B1	ECN # 14-0127	8/4/2014	
	B2	ECN # 14-0211	12/19/14	

**SPECIFICATIONS:**

- FREQUENCY: 8.0 GHz TO 18.0 GHz
- INSERTION LOSS: 2.5dB Max, 2.0dB Typ
- ISOLATION: 45dB Min
- VSWR: 2.0:1 Max
- RISE TIME: 75ns Typ
- FALL TIME: 25ns Typ
- DELAY ON: 150ns Typ
- DELAY OFF: 100ns Typ
- CONTROL: TTL (SEE TABLE)
- OPERATING INPUT POWER: 20W CW Max  
PRF 1MHz Max
- HOT SWITCHING: 10W CW Max
- DC SUPPLY: +5V @ 200 mA  
-28V @ 100 mA
- CONNECTORS: SMA (F)
- SIZE: (L) 1.2" X (W) 1.0" X (H) 0.5"
- SEALING: HERMETIC
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

**MECHANICAL OUTLINE**



PMI CONFIDENTIAL AND PROPRIETARY

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: -20°C TO +50°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 107

LOGIC TABLE	
E1	LOGIC
0	J1 - J2
1	J1 - J3

\*E1 PULLED LOW

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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>sfk</i>		03/22/13	PRODUCT FEATURE		
CHECKED			P2T-8G18G-45-R-SFF-HIP20W		
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27017981
					REV. B2
			SCALE N:S	SHEET 1 OF 1	

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION