

## DESCRIPTION

PMI MODEL NO. P2T-0D418-75-T-SFF IS A SINGLE POLE, TWO THROW, ABSORPTIVE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 0.4 TO 18.0 GHz. IT HAS A MINIMUM ISOLATION OF 75 dB AND A MINIMUM RETURN LOSS OF -10 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/19/2019	

## SPECIFICATIONS

- FREQUENCY RANGE: 0.4 TO 18.0 GHz
- ISOLATION: 75 dB MIN
- INSERTION LOSS: 2.2 dB @ 0.4 TO 10.0 GHz MAX  
3.0 dB @ 10.0 TO 18.0 GHz MAX
- RETURN LOSS (ALL PORTS ON OR OFF STATE): -10 dB MIN
- RISE/FALL TIME (10% TO 90% RF, 90% TO 10% RF): 50 ns MAX
- ON/OFF TIME (50% TTL TO 90% RF, 50% TTL TO 10% RF): 100 ns MAX
- OPERATING POWER: 27 dBm COM PORT 23 dBm OTHER PORTS  
PEAK 8 WATTS MAX @ 1 us (NOTE: WHEN INPUT +27 dBm, THE OPEN PORT CAN NOT BE FULL REFLECTED)
- POWER SUPPLY: +5 V  $\pm$  0.25 V @ 50 mA MAX  
-15 V  $\pm$  0.25 V @ 50 mA MAX
- EMC: -80 dB MIN
- CONTROL LOGIC: 1 BCD, 0 V < "0" < 0.8 V, 2.4 V < "1" < 5 V
- IMPEDANCE: 50 OHMS
- CONNECTORS: SMA FEMALE
- FINISH: ALODINE AND LASER SEALING

## TRUTH TABLE

C	E	ON	OFF
DC	1	-	J0-J1, J2
0	0	J0-J1	J0-J2
1	0	J0-J2	J0-J1

## 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

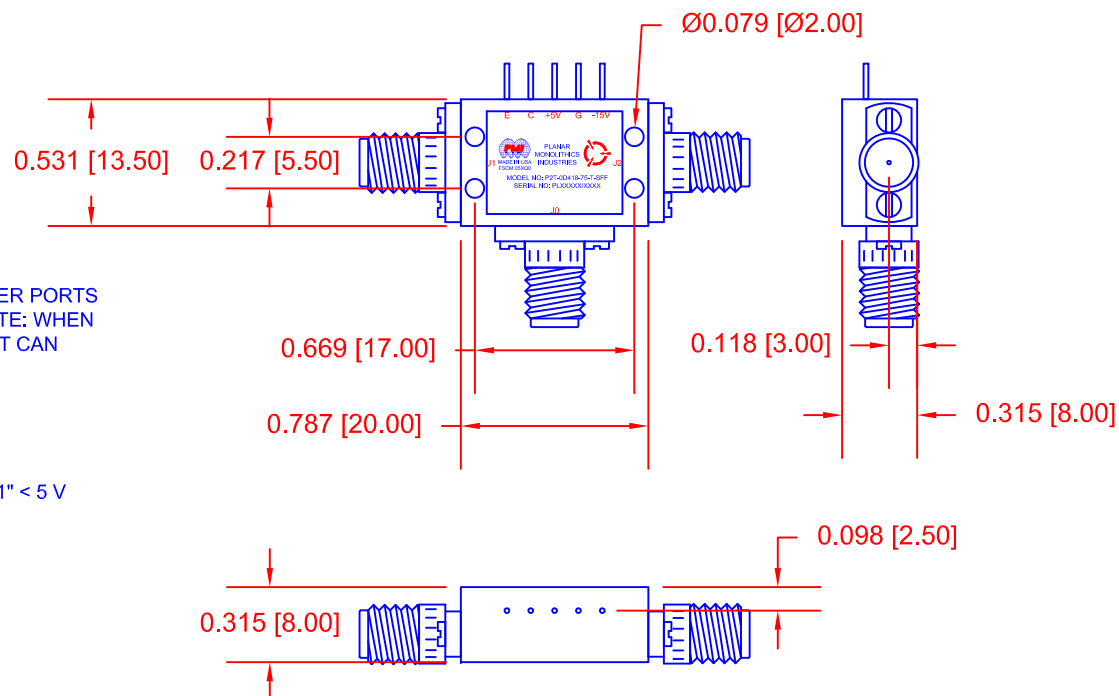
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS  
ARE IN INCHES [mm]  
TOLERANCES:  
X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: [www.pmi-rf.com](http://www.pmi-rf.com), EMAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN		11/19/19	PRODUCT FEATURE P2T-0D418-75-T-SFF		
REDRAWN					
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1