

DESCRIPTION

PMI MODEL NO. P6T-0D418-75-T-SFF IS A SINGLE POLE, SIX 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.

SPECIFICATIONS

- FREQUENCY RANGE: 0.4 TO 18.0 GHz
- ISOLATION: 75 dB MIN
- INSERTION LOSS: 3.0 dB @ 0.4 TO 10.0 GHz MAX
4.0 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 @ 250 mA MAX
-15 V \pm 0.25 V @ 100 mA MAX
- EMC: -80 dB MIN
- CONTROL LOGIC: 3 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

C1	C2	C3	E	ON	OFF
DC	DC	DC	1	-	J0-J1, J2, J3, J4, J5, J6
0	0	0	0	J0-J1	J0-J2, J3, J4, J5, J6
0	0	1	0	J0-J2	J0-J1, J3, J4, J5, J6
0	1	0	0	J0-J3	J0-J1, J2, J4, J5, J6
0	1	1	0	J0-J4	J0-J1, J2, J3, J5, J6
1	0	0	0	J0-J5	J0-J1, J2, J3, J4, J6
1	0	1	0	J0-J6	J0-J1, J2, J3, J4, J5

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

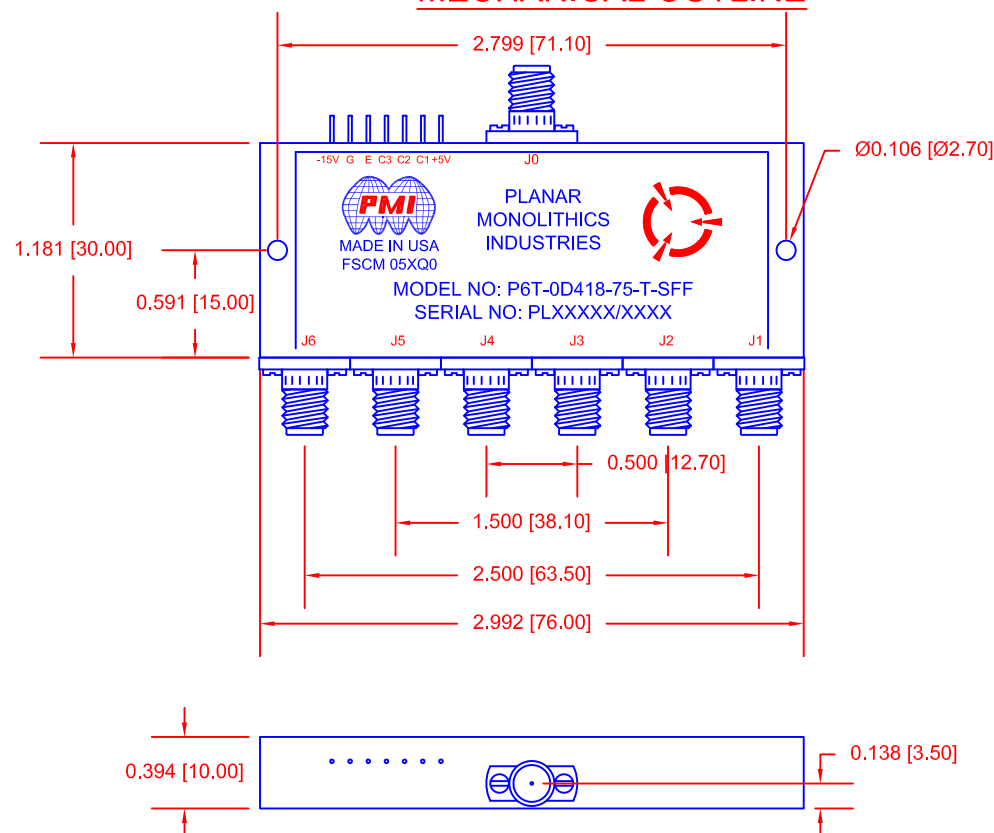
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

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

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE P6T-0D418-75-T-SFF				
APPROVALS	DATE					
DRAWN <i>EW</i>	11/19/19					
REDRAWN		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY		REV -
ISSUED		SCALE N:S			SHEET 1	OF 1