DESCRIPTION

PMI MODEL NO. P6T-30M6-70-T-SFF IS A SINGLE POLE, SIX THROW, ABSORPTIVE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 30 MHz TO 6.0 GHz. IT HAS A MINIMUM ISOLATION OF 70 dB AND A MINIMUM RETURN LOSS OF -12 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ------------------- 30 MHz TO 6.0 GHz
- ISOLATION: ------------------------------- 70 dB MIN
- INSERTION LOSS: ----------------------- 3.0 dB MAX
- RETURN LOSS (ALL PORTS ON OR OFF STATE): ----------------------------- -12 dB MIN
- RISE/FALL TIME (10% TO 90% RF, 90% TO 10% RF): --------------------------- 80 ns MAX
- ON/OFF TIME (50% TTL TO 90% RF, 50% TTL TO 10% RF): ------------------ 200 ns MAX
- OPERATING POWER: ------------------ 27 dBm COM PORT 23 dBm OTHER PORTS @ FREQUENCY OVER 0.5 GHz
  +20 dBm @ FREQUENCY UNDER 0.5 GHz
  PEAK 8 WATTS MAX @ 1 us
  (NOTE: WHEN INPUT +27 dBm, THE OUTPUT OF ON PORT CAN NOT BE FULL REFLECTED)
- POWER SUPPLY: ------------------------ +5 V ± 0.25 V @ 250 mA MAX
  -15 V ± 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

C3	C2	C1	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

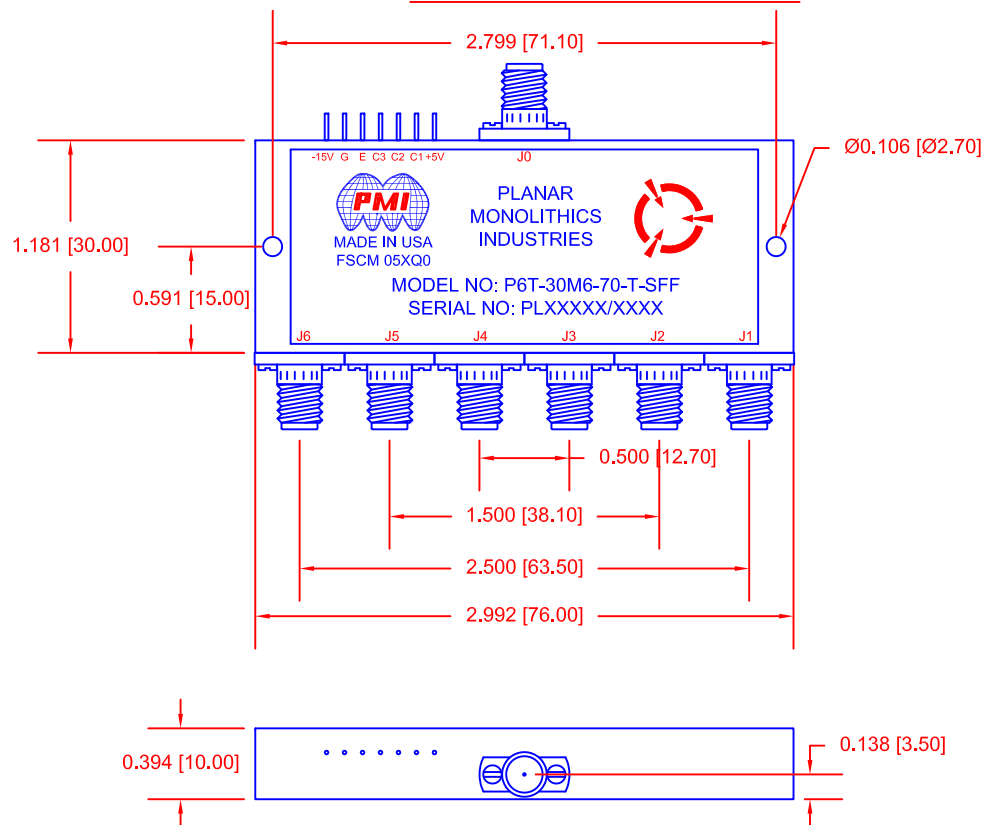NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS

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

MECHANICAL OUTLINE

2.799 [71.10]
Ø0.106 [Ø2.70]
1.181 [30.00]
0.591 [15.00]

-15V G E C3 C2 C1 +5V   J0

PMI
MADE IN USA
FSCM 05XQ0

PLANAR
MONOLITHICS
INDUSTRIES

MODEL NO: P6T-30M6-70-T-SFF
SERIAL NO: PLXXXXX/XXXX

J6   J5   J4   J3   J2   J1

0.500 [12.70]
1.500 [38.10]
2.500 [63.50]
2.992 [76.00]

0.394 [10.00]
0.138 [3.50]

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ISO 9001 CERTIFIED

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

APPROVALS	DATE	TITLE	
		PRODUCT FEATURE	
DRAWN CW	11/19/19	P6T-30M6-70-T-SFF	
REDRAWN			
ISSUED			

| SIZE A | FSCM NO. 05XQ0 | DWG NO. | PRELIMINARY | REV. - |
| SCALE N:S | | | SHEET 1 OF 1 | |