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

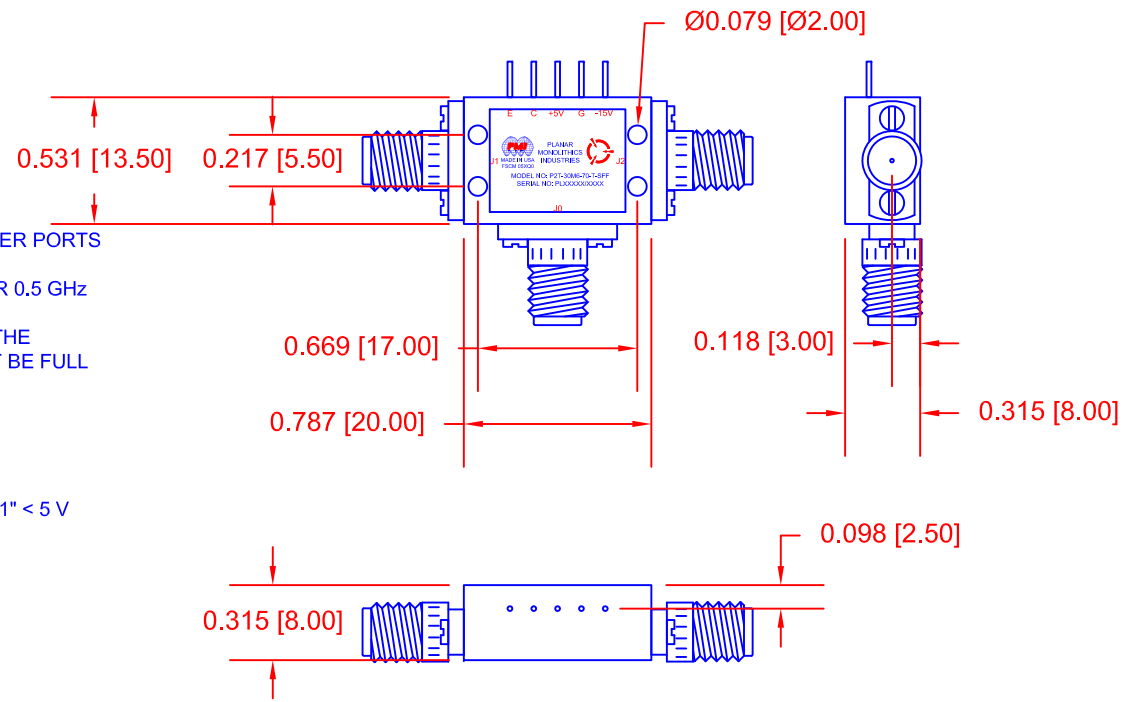
DESCRIPTION

PMI MODEL NO. P2T-30M6-70-T-SFF IS A SINGLE POLE, TWO 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: ---------- 2.6 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 @ 50 mA MAX
  -15 V ± 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

MECHANICAL OUTLINE



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

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

PMI CONFIDENTIAL AND PROPRIETARY

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, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN CW	11/19/19
REDRAWN	
ISSUED	

TITLE: PRODUCT FEATURE P2T-30M6-70-T-SFF

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