REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	2/25/19	

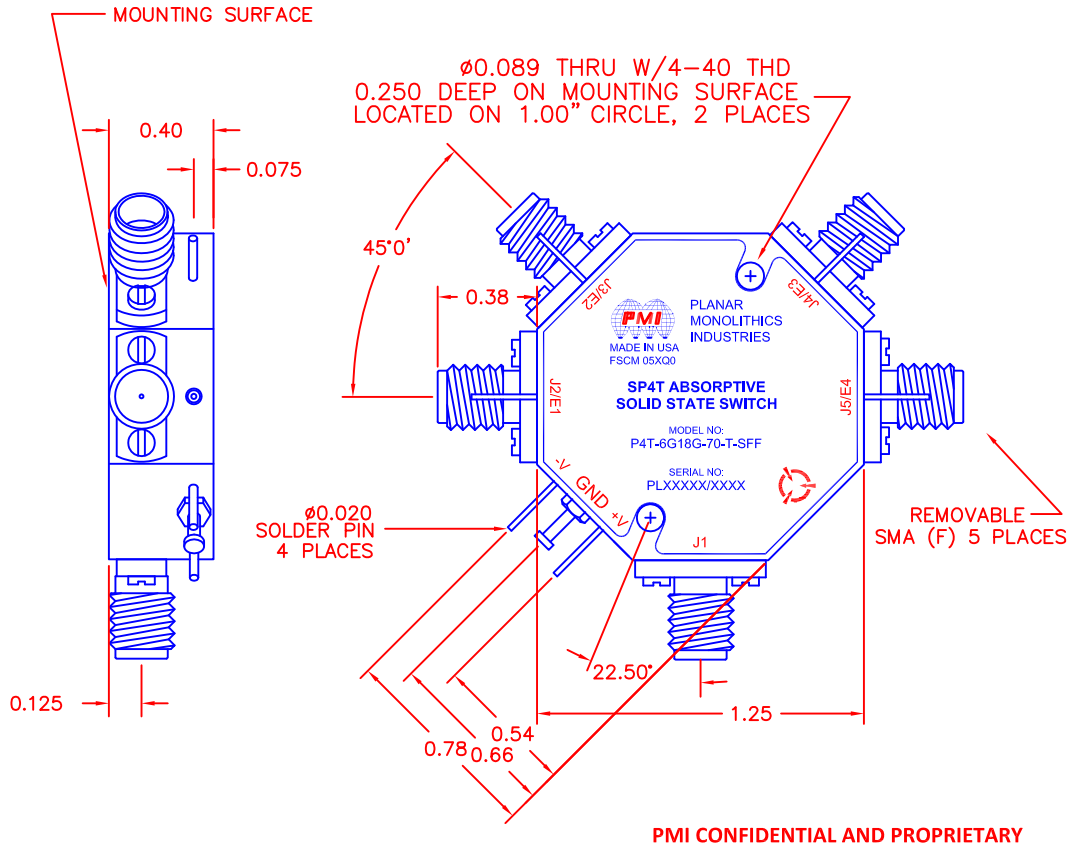
DESCRIPTION

PMI MODEL P4T-6G18G-70-T-SFF IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE FOUR THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 6.0 GHz TO 18.0 GHz. THIS SWITCH HAS > 70 dB ISOLATION.

MECHANICAL OUTLINE

SPECIFICATIONS

- FREQUENCY RANGE: 6.0 GHz TO 18.0 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: 1 WATT (30 dBm)
- VSWR: 2.0:1 MAX
- INSERTION LOSS: 3.75dB MAX
- ISOLATION: 70dB MIN
- SWITCHING SPEED: 100ns MAX
- DC VOLTAGE: +5VDC, 200mA TYP.
  −12VDC, 100mA TYP.
- CONTROL: SOLDER PIN
  TTL Logic "0" = Low Loss
  TTL Logic "1" = Isolation
  E1 Controls J1 - J2
  E2 Controls J1 - J3
  E3 Controls J1 - J4
  E4 Controls J1 - J5
- CONNECTORS IN/OUT: SMA (F)
- SIZE: (L) 1.25" X (W) 1.25" X (H) 0.4"
- FINISH: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- **TEMPERATURE:** −55°C TO + 85°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 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
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN B. Thomas	11/11/15
REDRAWN CW	2/25/19
ISSUED	

TITLE: PRODUCT FEATURE P4T-6G18G-70-T-SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	—

SCALE N:S SHEET 1 OF 1