

## DESCRIPTION

PMI MODEL P4T-1G18G-70-R-SFF IS A REFLECTIVE, HIGH SPEED, SINGLE POLE FOUR THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 1.0 GHz TO 18.0 GHz. THIS SWITCH HAS > 70 dB ISOLATION.

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 1.0 GHz TO 18.0 GHz
- IMPEDANCE: \_\_\_\_\_ 50  $\Omega$
- INPUT POWER: \_\_\_\_\_ +30dBm MAX (SURVIVAL)  
+20dBm MAX (OPERATING)
- VSWR: \_\_\_\_\_ 2.0:1 MAX
- INSERTION LOSS: \_\_\_\_\_ 3.0dB MAX
- ISOLATION: \_\_\_\_\_ 70dB MIN
- SWITCHING SPEED: \_\_\_\_\_ 100ns MAX
- DC VOLTAGE: \_\_\_\_\_ +5VDC, 200mA TYP.  
-15VDC, 75mA 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: \_\_\_\_\_ PAINTED BLUE

## ENVIRONMENTAL RATINGS

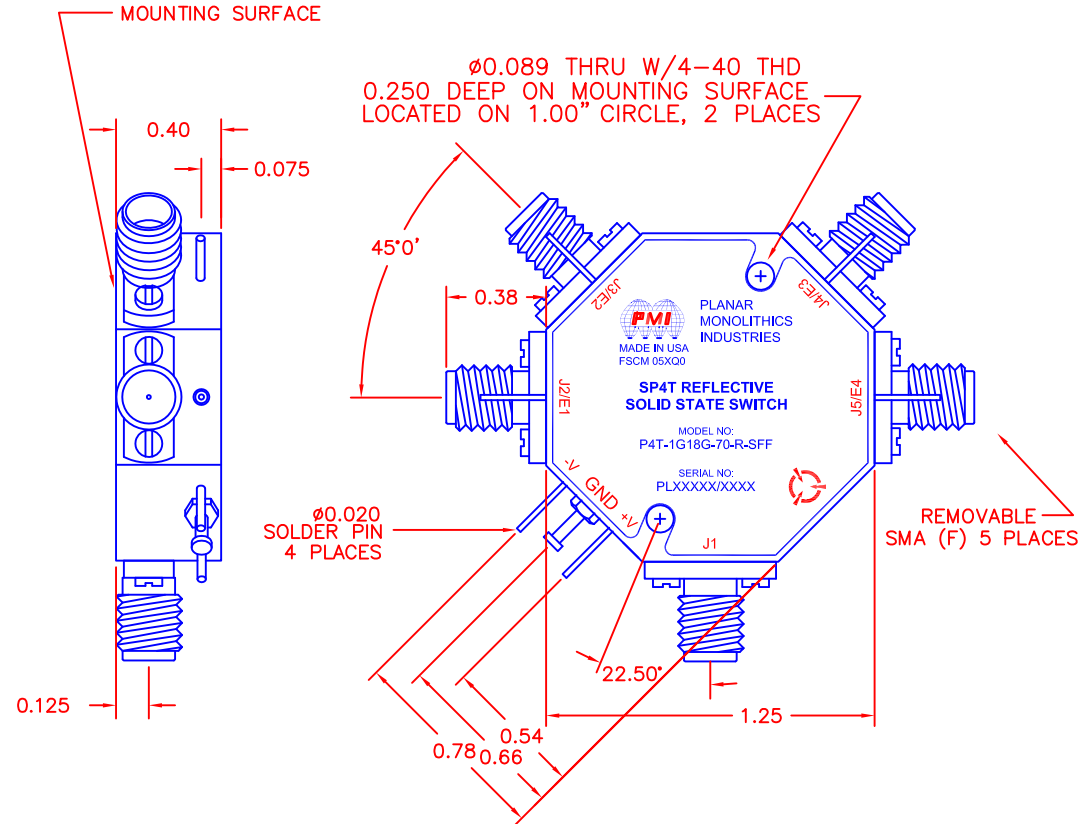
- TEMPERATURE: \_\_\_\_\_ -55°C TO + 85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD 105C COND. 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  $\pm$ 0.020  
X.XXX  $\pm$ 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/11/15	
	A1	ECN # 18-0003	01/04/18	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## 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](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN: <i>B. Thomas</i>		11/11/15	PRODUCT FEATURE P4T-1G18G-70-R-SFF		
CHECKED			SIZE: A	FSCM NO.: 05XQ0	DWG NO.: 27027481
ISSUED			SCALE: N:S		REV. A1
					SHEET 1 OF 1