

## DESCRIPTION

PMI MODEL P3T-0R5G18G-60-T-SFF IS A ABSORPTIVE, HIGH SPEED, SINGLE POLE THREE THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 0.5 GHz TO 18.0 GHz. THIS SWITCH HAS 65 dB ISOLATION.

## SPECIFICATIONS

- **FREQUENCY RANGE:** 0.5 GHz TO 18.0 GHz
- **IMPEDANCE:** 50  $\Omega$
- **INPUT POWER:** +30dBm MAX (SURVIVAL)  
+20dBm MAX (OPERATING)
- **VSWR:** 2.0:1 MAX
- **INSERTION LOSS:** 3.75dB MAX
- **ISOLATION:** 65dB TYP. / 60dB MIN.
- **SWITCHING SPEED:** 100ns MAX
- **DC VOLTAGE:** +5VDC, 150mA TYP.  
-15VDC, 100mA TYP.
- **CONTROL:** SOLDER PIN  
TTL COMPATIBLE - SEE LOGIC TABLE
- **CONNECTORS IN/OUT:** SMA (F)
- **SIZE:** (L) 1.5" X (W) 1.5" 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.

### LOGIC TABLE

E1	E2	E3	FUNCTION
0	1	1	J1-J2 "LOW LOSS"
1	0	1	J1-J3 "LOW LOSS"
1	1	0	J1-J4 "LOW LOSS"

## ENVIRONMENTAL RATINGS

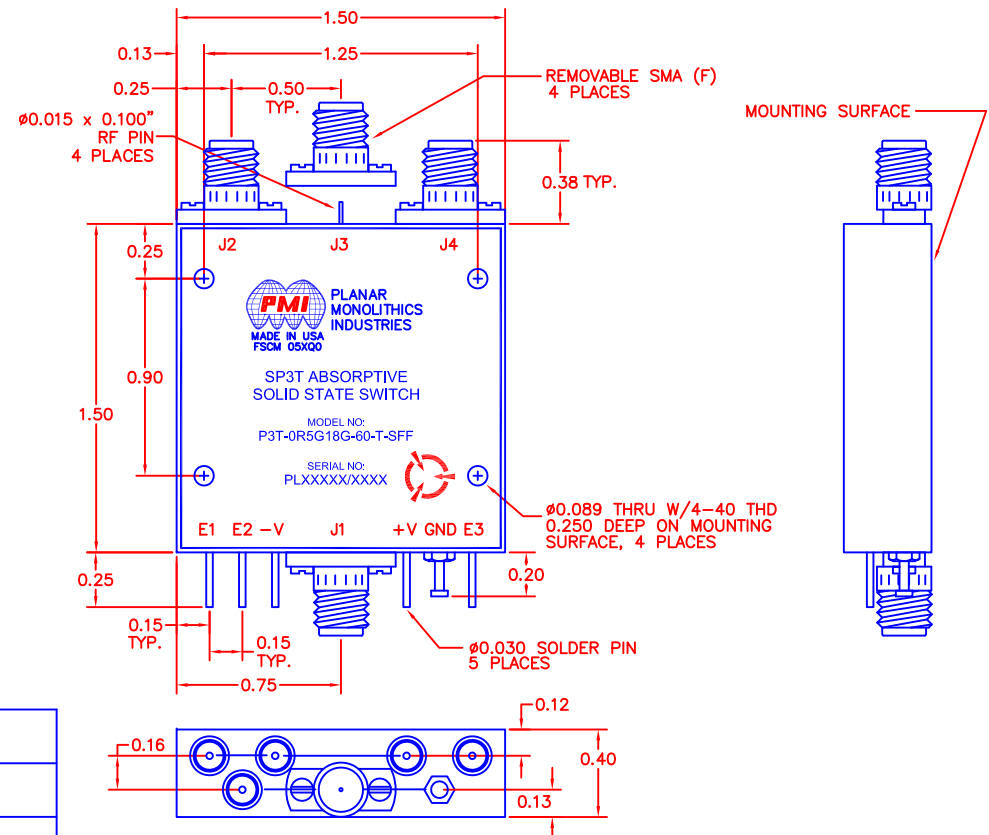
- **TEMPERATURE:** -55°C TO + 85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- **HUMIDITY:** MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:** MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:** MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:** MIL-STD-202F, 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	10/21/20	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	<i>SPH</i>	10/21/20	PRODUCT FEATURE P3T-0R5G18G-60-T-SFF		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1