

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	11/08/18	
	A2	Typographical Errors	6/11/2021	

DESCRIPTION

PMI MODEL P3T-0R5G18G-60-R-SFF IS A REFLECTIVE, 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 > 60 dB ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 GHz TO 18.0 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: +30dBm MAX (SURVIVAL)
+20dBm MAX (OPERATING)
- VSWR: 2.0:1 MAX
- INSERTION LOSS: 2.75dB MAX
- ISOLATION: 60dB TYP.
- SWITCHING SPEED: 100ns MAX
- DC VOLTAGE: +5VDC, 150mA TYP.
-15VDC, 75mA 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"

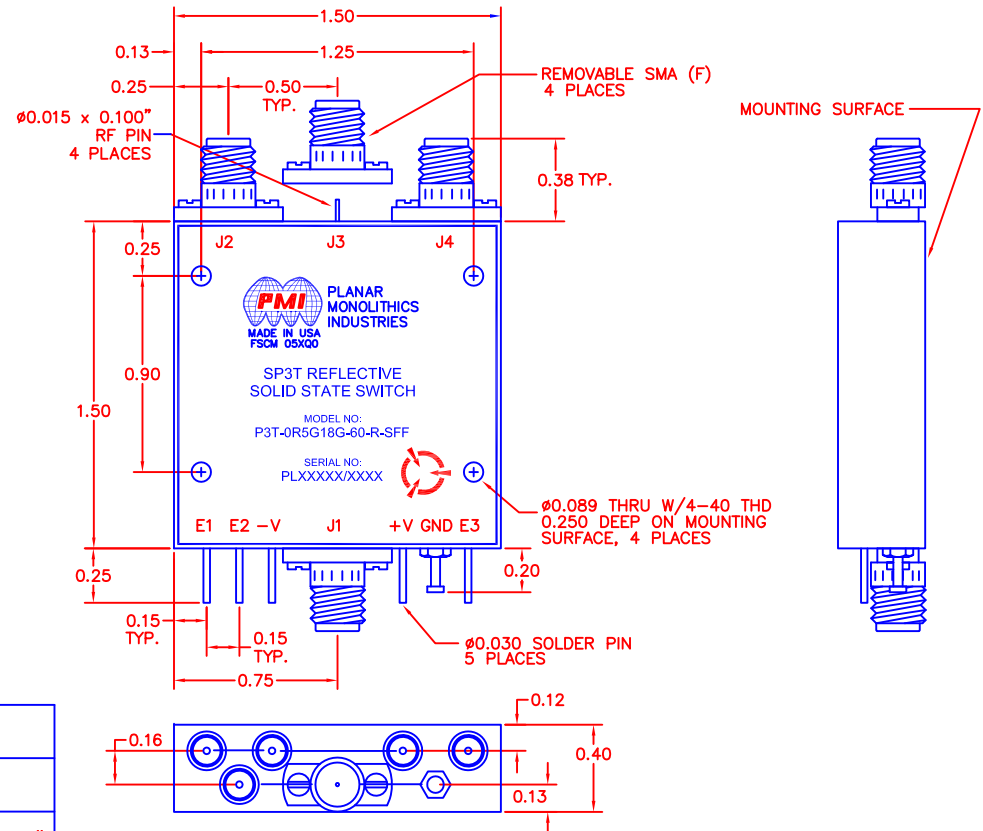
ENVIRONMENTAL RATINGS

- 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 \pm 0.020
X.XXX \pm 0.010

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN	GJR	11/08/18	PRODUCT FEATURE P3T-0R5G18G-60-R-SFF		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	27035821
			SCALE	N:S	SHEET 1 OF 1