DESCRIPTION

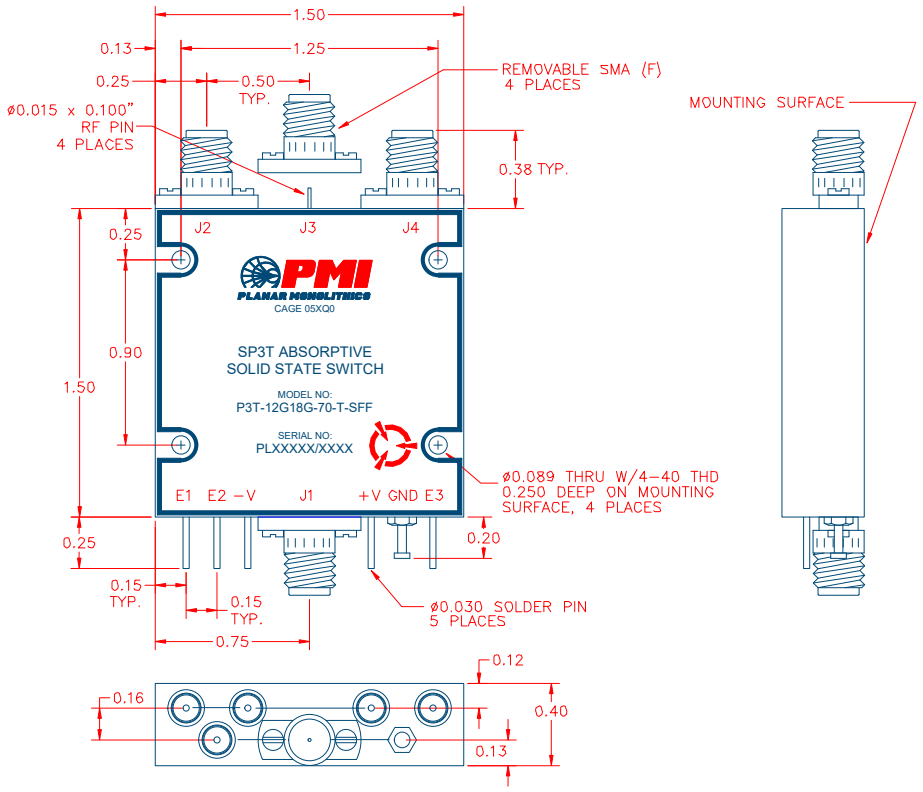
PMI MODEL P3T-12G18G-70-T-SFF IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE THREE THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THE FREQUENCY RANGE IS 12.0 GHz TO 18.0 GHz. THIS SWITCH HAS > 70 dB ISOLATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/18/15	
	A1	ECN # 16-0101	5/18/16	
	A2	ECN # 17-0002	1/12/17	

SPECIFICATIONS

- FREQUENCY RANGE: ——— 12.0 GHz TO 18.0 GHz
- IMPEDANCE: ——— 50 Ω
- INPUT POWER: ——— +30dBm MAX (SURVIVAL)
  +20dBm MAX (OPERATING)
- VSWR: ——— 2.0:1 MAX
- INSERTION LOSS: ——— 3.75dB MAX
- ISOLATION: ——— 70dB 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.

MECHANICAL OUTLINE



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

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
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN GAB	11/18/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
P3T-12G18G-70-T-SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27026621	A2

SCALE N:S SHEET 1 OF 1