REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	4/30/10	

DESCRIPTION

PMI MODEL P2T-7D5G9G-80-T-SFF IS AN ABSORPTIVE PIN DIODE SWITCH THAT OPERATES OVER THE 7.5 GHZ TO 9.0 GHZ FREQUENCY RANGE, WHILE PROVIDEING OVER 80DB OF ISOLATION BETWEEN THE ON AND OFF PORT. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE: ..... 7.5 TO 9.0 GHz
- ISOLATION: ..... 80 dB MIN
- INSERTION LOSS: ..... 2.0 dB Max.
- VSWR IN / OUT: ..... 1.5:1 DESIGN GOAL, 2.0:1 MAX
- INPUT POWER: ..... +25dBm CW MIN. P0.1dB
- SURVIVAL POWER: ..... 1W PEAK 1 mSec
- RF SWITCHING SPEED: ..... RISE: 15nS TYP
  FALL: 15nS TYP
  DELAY ON: 50nS TYP
  DELAY OFF: 50nS TYP
- DC VOLTAGE: ..... +5 V @ 100 mA TYP
  −5 V @ 100 mA TYP
- CONTROL SIGNAL: ..... TTL LOGIC
  SEE LOGIC TABLE
- CONNECTORS IN/OUT: ..... SMA FEMALE CONNECTORS
- CONTROL CONNECTORS: ..... SOLDER PINS
- WEIGHT: ..... 12 GRAMS TYP
- FINISH: ..... GOLD PLATED

ENVIRONMENTAL RATINGS

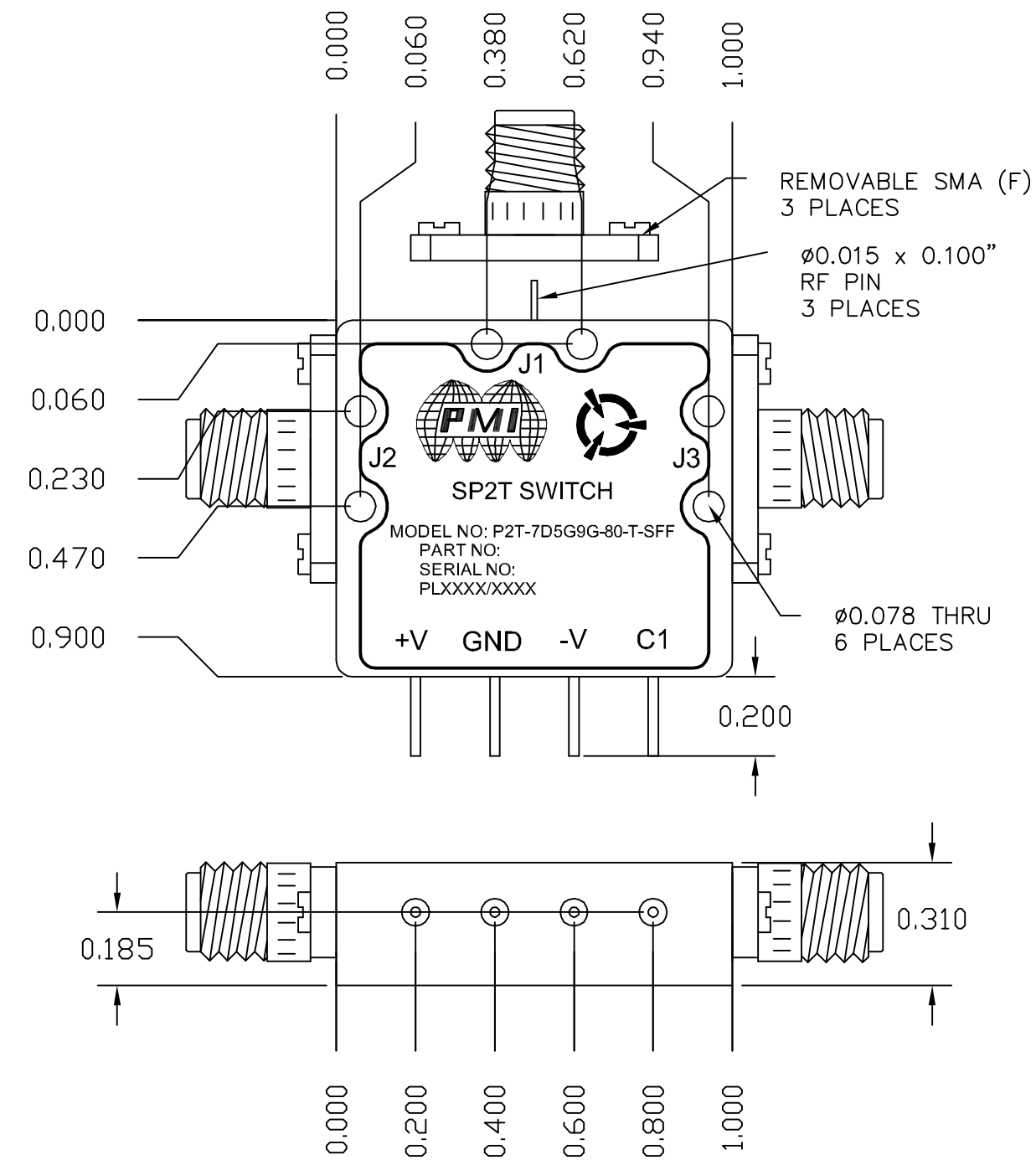
- **TEMPERATURE:** ..... −40°C TO +85°C (OPERATING)
  −65°C TO +125°C (STORAGE)
- **HUMIDITY:** ..... MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** ..... MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:** ..... MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:** ..... MIL-STD-202F, METHOD 105C COND. B
- **SALT FOG:** ..... MIL-STD-202F, METHOD 107D COND. A
- **FUNGUS:** ..... MIL-STD-810C, METHOD 508.2
- **TEMPERATURE CYCLE:** ..... MIL-STD-202F, METHOD 107

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

LOGIC TABLE

C1	J1 – J2	J1 – J3
0	ON	OFF
1	OFF	ON

MECHANICAL OUTLINE



NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± 0.010 .XXX ± 0.005 ANGLES ±

MATERIAL:

FINISH:

DO NOT SCALE DRAWING

PART NO.

APPROVALS	DATE
DRAWN PJK	4/30/10
CHECKED	
ISSUED	

PLANAR MONOLITHICS INDUSTRIES
FREDERICK, MARYLAND

TITLE
OUTLINE DRAWING
P2T-7D5G9G-80-T-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B		270XXXXX	A

SCALE N/S SHEET 1 OF 1