

## DESCRIPTION

PMI MODEL NUMBER SWN-1170-4DR-SP-OPT1G4G IS A SINGLE POLE, FOUR THROW REFLECTIVE, SWITCH DESIGNED TO OPERATE OVER THE 1.0 GHZ TO 4.0 GHZ FREQUENCY RANGE. THIS MODEL IS DESIGNED TO MAINTAIN LOW INSERTION LOSS, HIGH ISOLATION, AND FAST SWITCHING SPEED.

## SPECIFICATIONS

- FREQUENCY RANGE: 1.0 TO 4.0 GHz
- ISOLATION: 60 dB MIN.
- INSERTION LOSS: 1.5 dB TYP
- VSWR IN / OUT: 1:5 TYP., 1.8:1 MAX
- INPUT POWER: +10 dBm CW MAX
- SURVIVAL POWER: 1W CW, 10 W PEAK 1 usec
- RF SWITCHING SPEED:
  - RISE: 15nS MAX
  - FALL: 15nS MAX
  - DELAY ON: 100nS MAX
  - DELAY OFF: 100nS MAX
- DC VOLTAGE: +5 V @ 200 mA NOMINAL  
-5 V @ 100 mA NOMINAL
- CONTROL SIGNAL: TTL LOGIC  
"0" = ON & "1" = OFF
- CONNECTORS IN/OUT: SMA FEMALE CONNECTORS
- CONTROL CONNECTORS: SOLDER PINS
- FINISH: EPOXY PAINTED BLUE

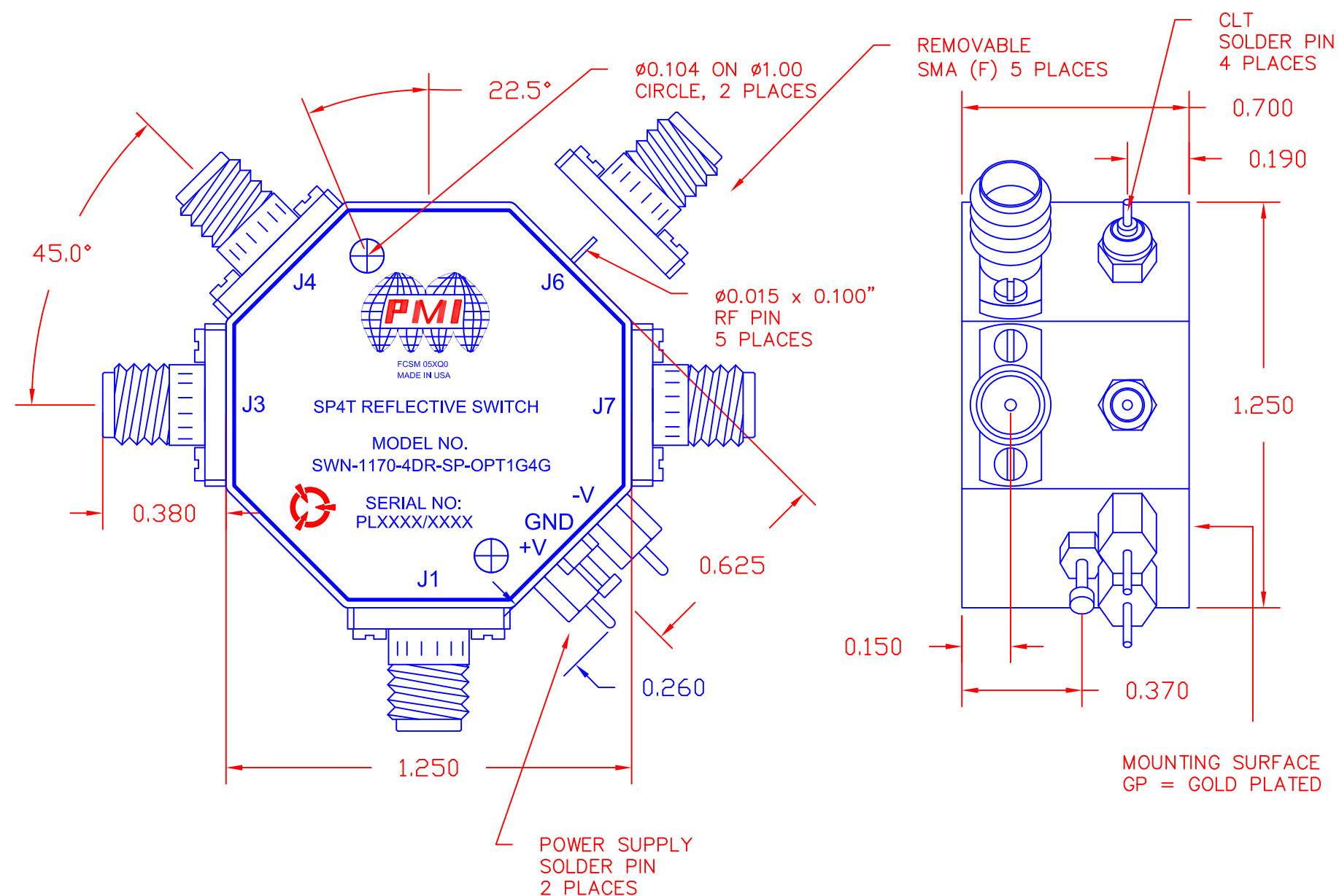
## ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)  
-55°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 107

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/3/15	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		PART NO.		PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND	
TOLERANCES ARE:	ANGLES	APPROVALS	DATE	TITLE	
FRACTIONS ±	DECIMALS ±	K. MASON	3/3/15	OUTLINE DRAWING	
.XX ± 0.010	.XXX ± 0.005			SWN-1170-4DR-SP-OPT1G4G	
MATERIAL:	FINISH:	CHECKED	ISSUED	SIZE	FSM NO.
				B	
NEXT ASSY	USED ON			DWG NO.	PRELIMINARY
APPLICATION	DO NOT SCALE DRAWING			SCALE	N/S
				SHEET 1 OF 1	