

DESCRIPTION

PMI MODEL: P2T-0R1G8G-45-R-50W-AL IS A SINGLE POLE, TWO THROW REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 100 MHz TO 8.0 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO HANDLE 50 WATTS AVERAGE INPUT POWER.

SPECIFICATIONS

- **FREQUENCY** 100 MHz TO 8.0 GHz
- **RF INPUT POWER: ----** 50 WATTS AVERAGE (COLD SWITCHING)
- **INSERTION LOSS: ----** 2.20 dB MAX, 1.5 dB TYP@ 100MHz - 0.5GHz
 1.30 dB MAX, 0.90 dB TYP @ 0.5 - 1.0 GHz
 1.40 dB MAX, 1.00 dB TYP @ 1.0 - 2.0 GHz
 1.60 dB MAX, 1.30 dB TYP @ 2.0 - 4.0 GHz
 2.30 dB MAX, 2.00 dB TYP @ 4.0 - 6.0 GHz
 2.60 dB MAX, 2.40 dB TYP @ 6.0 - 8.0 GHz
- **ISOLATION: -----** 52 dB MIN, 56 dB TYP @ 100MHz - 0.5 GHz
 48 dB MIN, 52 dB TYP @ 0.5 - 1.0 GHz
 42 dB MIN, 45 dB TYP @ 1.0 - 2.0 GHz
 36 dB MIN, 38 dB TYP @ 2.0 - 4.0 GHz
 35 dB MIN, 37 dB TYP @ 4.0 - 6.0 GHz
 30 dB MIN, 33 dB TYP @ 6.0 - 8.0 GHz
- **VSWR: -----** 2.4:1 MAX, 2.2:1 TYP @ 100MHz - 0.5 GHz
 1.5:1 MAX, 1.30:1 TYP @ 0.5 - 1.0 GHz
 1.5:1 MAX, 1.30:1 TYP @ 1.0 - 2.0 GHz
 1.5:1 MAX, 1.30:1 TYP @ 2.0 - 4.0 GHz
 1.9:1 MAX, 1.80:1 TYP @ 4.0 - 6.0 GHz
 2.0:1 MAX, 1.80:1 TYP @ 6.0 - 8.0 GHz
- **SWITCHING SPEED: --** 100 ns Max.
- **HOT SWITCHING: ---** 40 Watts (CW) Max (1KHz, 50% Duty Cycle, At 100MHz To 8GHz)
 10 Watts (CW) Max (1MHz, 50% Duty Cycle, At 8GHz)
 16 Watts (CW) Max (1MHz, 50% Duty Cycle, At 100MHz to 0.5GHz)
- **POWER SUPPLY: -----** +5V @ 100 mA MAXIMUM
- **CONTROL: -----** TTL (SEE LOGIC TABLE BELOW)
- **FINISH: -----** PAINTED BLUE
(NO PAINT ON MOUNTING SURFACE)
- **CONNECTORS: -----** FIELD REPLACEABLE SMA FEMALE

ENVIRONMENTAL RATINGS

- **TEMPERATURE: -----** -45 °C TO +85 °C (OPERATING)
 -54 °C TO +125 °C (STORAGE)
- **ENVIRONMENTAL: -----** MIL-STD-810E
- **EMI/EMC: -----** MIL-STD-461

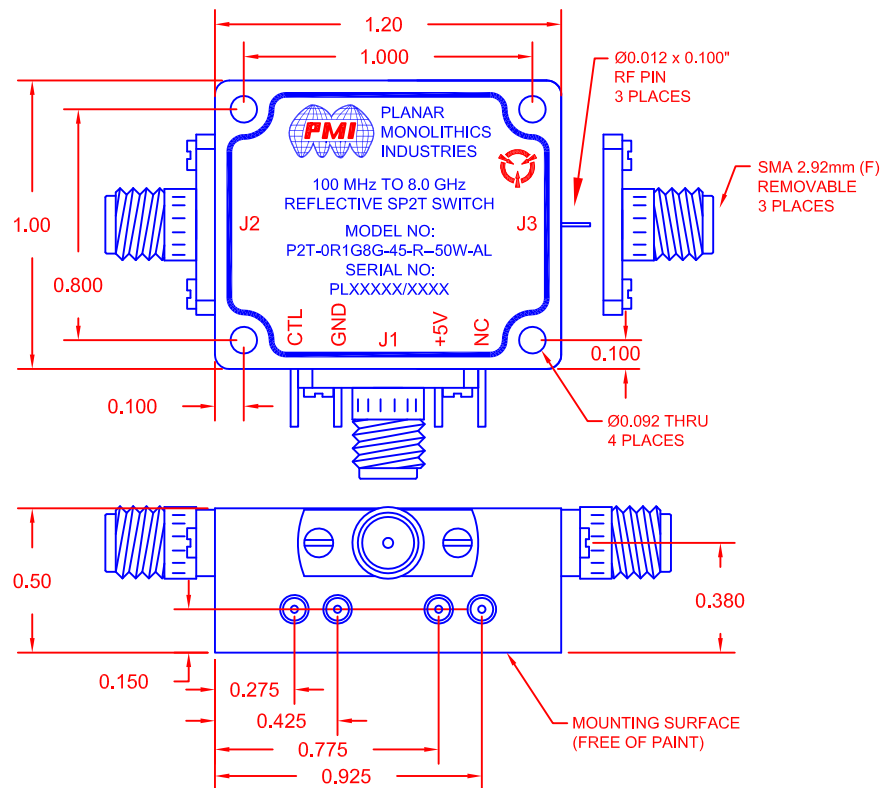
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

LOGIC TABLE		
CTL	J1 - J2	J1 - J3
0	ON	OFF
1	OFF	ON

ALL DIMENSIONS ARE IN INCH [mm]
 TOLERANCES:
 X.XX ± 0.020 [0.508]
 X.XXX ± 0.010 [0.254]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	09/20/20	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>SPR</i>		09/20/20	PRODUCT FEATURE P2T-0R1G8G-45-R-50W-AL 100 MHz to 8.0 GHz Reflective SP2T Switch		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27038360
ISSUED					REV. A1
SCALE N:S				SHEET 1 OF 1	