

## DESCRIPTION

PMI MODEL NUMBER P2T-1G1R1G-25-R-SFF-100W IS A SINGLE POLE, TWO THROW HERMETICALLY SEALED REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 1.0GHz TO 1.1GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO HANDLE 100 WATTS AVERAGE INPUT POWER AND 5KW PEAK HAVING A 17uSEC PULSE WIDTH AND 2% DUTY CYCLE.

## SPECIFICATIONS

- FREQUENCY: ..... 1.0 GHz TO 1.1 GHz
- POWER: ..... 5KW PEAK
- AVERAGE POWER ..... 100 WATTS
- INSERTION LOSS ..... 0.8dB MAX
- ISOLATION: ..... 25dB MIN
- VSWR: ..... 1.5:1
- RISE TIME: ..... 275ns TYP. - FROM 10% TO 90% RF
- SWITCHING DELAY: ..... 385ns TYP. - FROM 50% TTL TO 10% - 90% RF
- DUTY CYCLE: ..... 2%
- PULSE WIDTH: ..... 17uS
- PRF ..... 600Hz
- SWITCHING SPEED: ..... 5uS MAX
- SWITCHING RATE: ..... 2KHz
- COLD SWITCHING: ..... YES
- POWER SUPPLY: ..... +50V @ 50mA, +5V @ 200mA
- CONTROL: ..... TTL
- FINISH ..... PAINTED GRAY - NO PAINT ON MOUNTING SURFACE
- CONNECTORS: ..... TNC FEMALE (J1, J2, J3) 9-PIN MICRO D (DC/CONTROL)
- J4 CONNECTIONS

J4 PIN	CONNECT TO
1	U1 +50V
2	GROUND
3	U1 IN2, (CTRL J3)
4	U1 +5V
5	U1 IN1, (CTRL J2)
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ..... -45°C TO +85°C (OPERATING - BASE PLATE)  
..... -54°C TO +125°C (NON-OPERATING)
- ENVIRONMENTAL ..... MIL-STD-810E
- EMI/EMC ..... MIL-STD-461

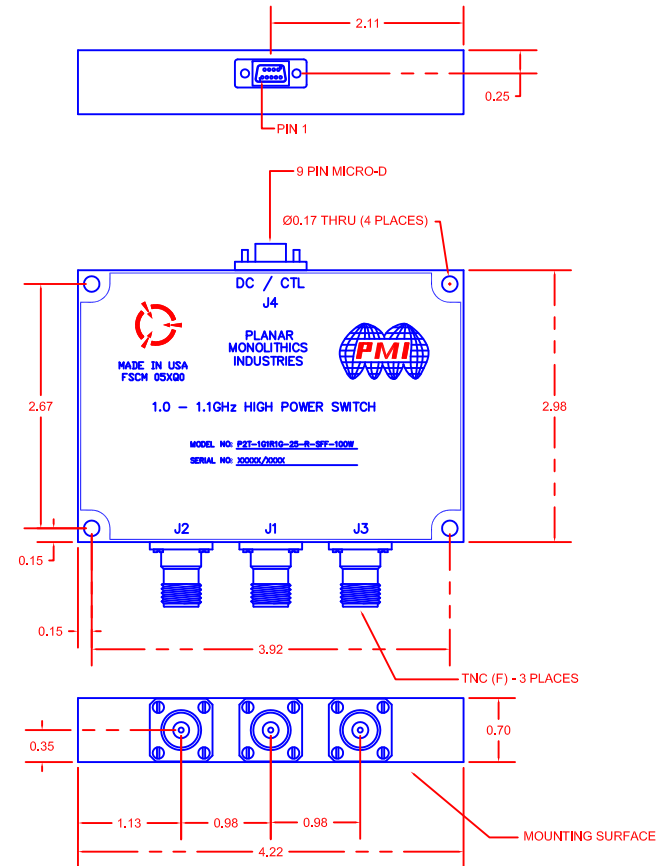
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/8/19	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		REV.
DRAWN	NJA	11/8/19	PRODUCT FEATURE		1
CHECKED			P2T-1G1R1G-25-R-SFF-100W		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27021751
			SCALE	N: S	SHEET 1 OF 1