

## DESCRIPTION

PMI MODEL NUMBER P2T-1G1R1G-25-R-TFF-100W-OPT525NS 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: 525ns TYP. - FROM 10% TO 90% RF
- DUTY CYCLE: 2%
- PULSE WIDTH: 17uS
- PRF: 600Hz
- SWITCHING SPEED: 525ns TYP (50% TTL TO 10%/90% RF)
- SWITCHING RATE: 2KHz
- COLD SWITCHING: YES
- POWER SUPPLY: +50V @ 50mA, +5V @ 200mA
- CONTROL: TTL (SEE LOGIC TABLE)
- FINISH: BLUE PAINTED (NO PAINT ON MOUNTING SURFACE)
- CONNECTORS: TNC FEMALE (J1, J2, J3) 9-PIN MICRO D (DC/CONTROL)
- J4 CONNECTIONS:

LOGIC TABLE	
TTL	STATE
"0"	J1 - J3
"1"	J1 - J2

J4 PIN	CONNECT TO
1	U1 +50V
2	N/C
3	NOT USED
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

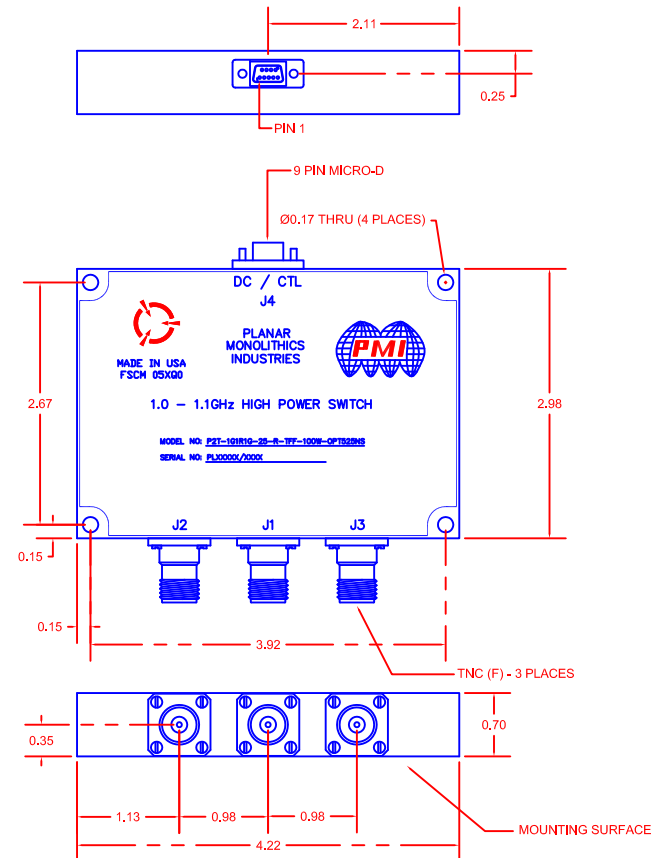
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

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

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/03/17	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS		DATE	TITLE			
DRAWN	NJA	11/8/13	PRODUCT FEATURE			
REDRAWN	SPU	10/03/17	P2T-1G1R1G-25-R-TFF-100W-OPT525NS			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27033500	A1
			SCALE	N: S	SHEET	1 OF 1