

## DESCRIPTION

PMI MODEL NUMBER P2T-1G1R1G-25-R-TFF-40W 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 40 WATTS AVERAGE INPUT POWER AND 4KW PEAK HAVING A 3uSEC PULSE WIDTH AND 1% DUTY CYCLE.

## SPECIFICATIONS

- FREQUENCY RANGE: 1.0GHz TO 1.1GHz
- POWER: 4KW PEAK
- AVERAGE POWER: 40W
- INSERTION LOSS: 0.8dB MAX.
- ISOLATION: 25dB MIN.
- VSWR: 1.5:1
- RISE & FALL TIME: 275ns TYP. - FROM 10% TO 90% RF
- DUTY CYCLE: 1%
- PULSE WIDTH: 3uS
- PRF: 600Hz
- SWITCHING SPEED: 300ns MAX.
- SWITCHING RATE: 2KHz MAX
- COLD SWITCHING: YES
- CONTROL: TTL, "1"(J1-J2), "0"(J1-J3)
- POWER SUPPLY: +50V @ 50mA, +5V @ 200mA
- FINISH: NO PAINT ON MOUNTING SURFACE. GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- CONNECTORS: TNC FEMALE (J1, J2, J3) 9-PIN MICRO D (DC/CONTROL)
  - NOTE: RF Power applied to the common arm only.
  - NOTE: Source and Load Termination to be less than 1.5:1
  - NOTE: One arm in low loss state at all times.

J4 CONNECTIONS

J4 PIN	CONNECT TO
1	U1 +50V
2	GROUND
3	NOT USED
4	U1 +5V
5	U1 IN1, (CONTROL)
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +55°C (OPERATING - BASE PLATE)  
-54°C TO +125°C (NON-OPERATING)
- ENVIRONMENTAL MIL-STD-810E
- EMI/EMC MIL-STD-461

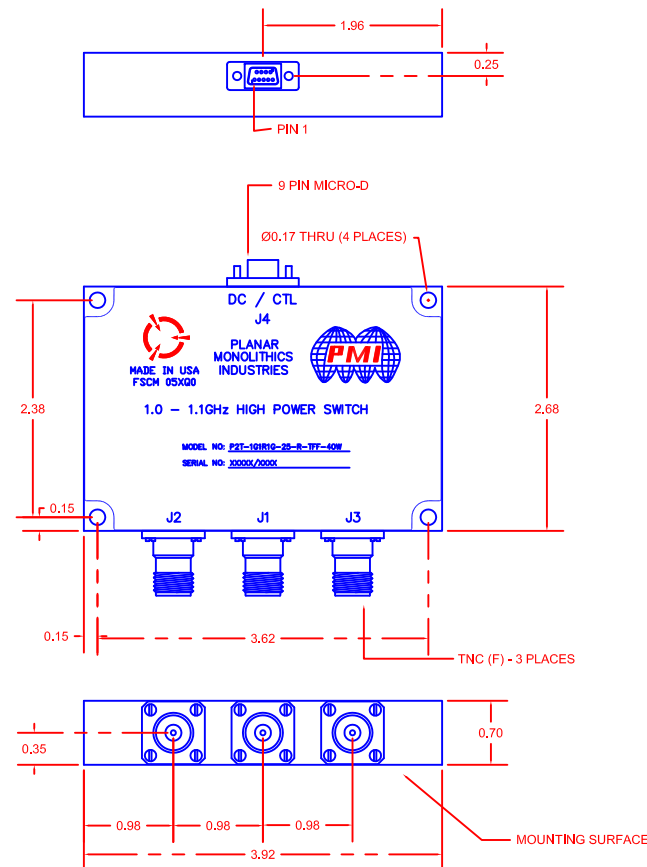
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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	11/8/13	
	A1	ECN # 14-0165	10/08/14	
	B1	ECN # 14-0212	12/22/14	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN	NJA	11/8/13		PRODUCT FEATURE	
CHECKED				P2T-1G1R1G-25-R-TFF-40W	
ISSUED					
SIZE	A	FSCM NO.	05XQ0	DWG NO.	27021451
SCALE	N: S				
				SHEET	1 OF 1