

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
- DUTY CYCLE: 2%
- PULSE WIDTH: 17uS
- PRF: 600Hz
- SWITCHING SPEED: 250ns 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: NO PAINT ON MOUNTING SURFACE
BLUE 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)
- 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

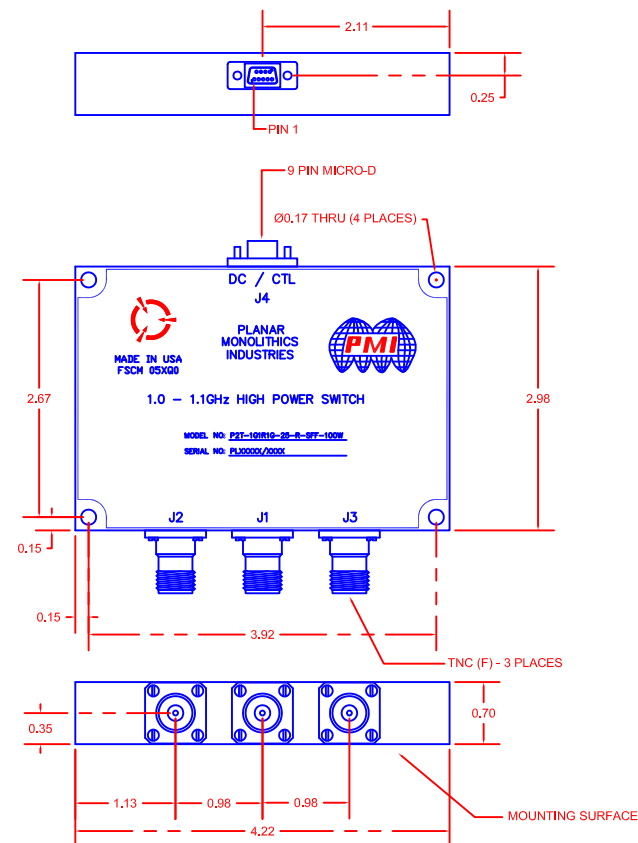
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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 # 14-0171	11/9/14	
	B1	ECN # 15-0073	06/22/15	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS		DATE		TITLE	
DRAWN		NJ A		PRODUCT FEATURE	
CHECKED		11/8/13		P2T-1G1R1G-25-R-SFF-100W	
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27021751	
SCALE		N: S		SHEET	
				1 OF 1	