

DESCRIPTION

PMI MODEL NUMBER P2T-2D4G2D5G-30-R-TFF-50W IS A SINGLE POLE, TWO THROW REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 2.4GHz TO 2.5GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO HANDLE 50 WATTS CW INPUT POWER AND OFFERS FAST SWITCHING SPEEDS OF <250ns.

SPECIFICATIONS

- FREQUENCY: 2.4 GHz TO 2.5 GHz
- OPERATING INPUT POWER: 50 WATTS CW MAXIMUM - SEE NOTES
- INSERTION LOSS: 1.0dB MAXIMUM
- ISOLATION: 25dB MIN, 30dB TYPICAL
- VSWR: 1.5:1 MAXIMUM
- SWITCHING SPEED: 250ns TYPICAL (50% TTL TO 10% - 90% RF)
- SWITCHING RATE: 2KHz MAXIMUM
- COLD SWITCHING: YES
- POWER SUPPLY: +50V @ 20mA NOMINAL , +5V @ 125mA NOMINAL
- CONTROL: TTL
- 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)
- J4 CONNECTIONS 9-PIN MICRO D (DC/CONTROL) - MATING CONNECTOR SUPPLIED

J4 PIN	CONNECT TO
1	U1 +50V
2	GROUND
3	NOT USED
4	U1 +5V
5	U1 IN1, (CTRL J2)
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

NOTES:

- COLD SWITCHING
- HIGH POWER INPUT TO J1 ONLY
- OUTPUT LOAD TO BE WELL MATCHED TO 50 OHMS
- ONE SWITCH PATH TO BE IN "LOW LOSS" MODE AT ALL TIMES WHEN HIGH POWER IS PRESENT

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

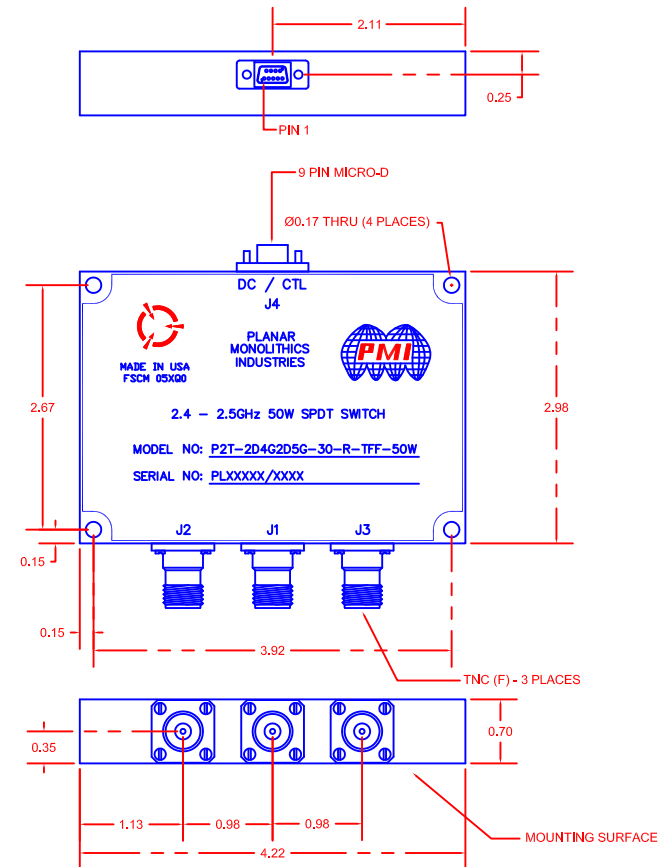
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/27/15	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS		DATE	TITLE		REV.
DRAWN	K. MASON	1/27/15	PRODUCT FEATURE		-
CHECKED			P2T-2D4G2D5G-30-R-TFF-50W		
ISSUED			SIZE	F5CH NO.	DWG NO.
			A	05XQ0	PRELIMINARY
			SCALE	N: S	SHEET 1 OF 1