

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 TIME: FROM 10% TO 90% RF
- DUTY CYCLE: 1%
- PULSE WIDTH: 3uS
- PRF: 600Hz
- SWITCHING SPEED: 300nS MAX.
- SWITCHING RATE: 2KHz
- COLD SWITCHING: YES
- CONTROL: TTL
- POWER SUPPLY: +50V @ 50mA, +5V @ 200mA, -12V @ 30mA
- 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, 2 (CTRL J3)
4	U1 +5V
5	U1 IN1, (CTRL J2)
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

- 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.

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

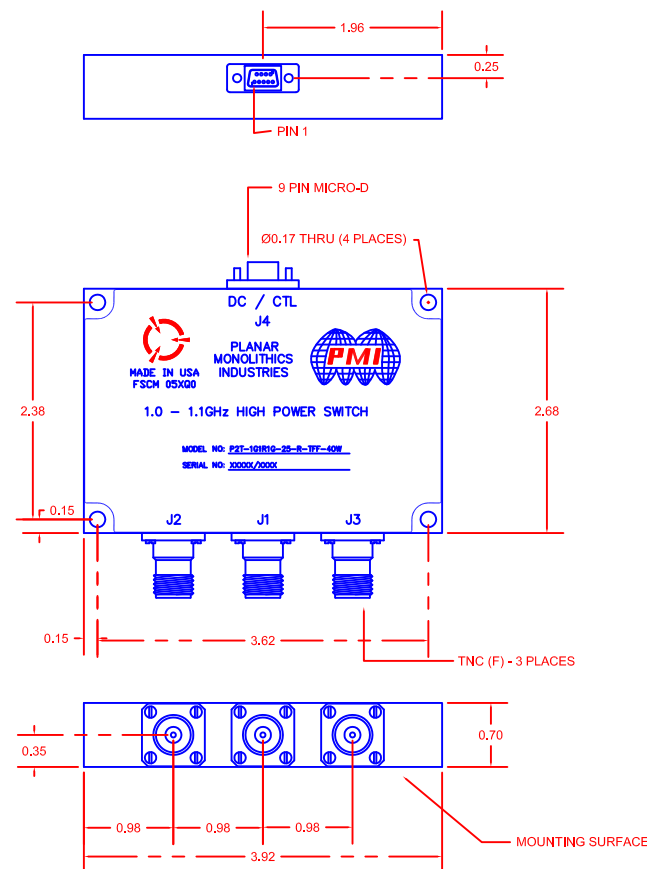
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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	11/8/19	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN	NJA	11/8/19		PRODUCT FEATURE P2T-1G1R1G-25-R-TFF-40W	
CHECKED				SIZE	FSCM NO.
ISSUED				A	05XQ0
				DWG NO.	27021451
				SCALE	N: S
				SHEET	1 OF 1