

DESCRIPTION

PMI MODEL NUMBER P2T-1R2G1R4G-25-R-SFF-250W IS A SINGLE POLE, TWO THROW HERMETICALLY SEALED REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 1.2 GHz TO 1.4 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO HANDLE 250 WATTS PEAK INPUT POWER HAVING A 150 μ s PULSE WIDTH AND 10% DUTY CYCLE.

SPECIFICATIONS

- FREQUENCY: 1.2 GHz TO 1.4 GHz
- POWER: 250 W PEAK
- INSERTION LOSS: 0.8 dB MAX
- ISOLATION: 25 dB MIN
- VSWR: 1.5:1
- RISE TIME: 275 ns TYP - FROM 10% TO 90% RF
- DUTY CYCLE: 10%
- PULSE WIDTH: 150 μ s
- PRF: 600 Hz
- SWITCHING SPEED: 250 ns TYP (50% TTL TO 10%/90% RF)
- SWITCHING RATE: 2 kHz
- COLD SWITCHING: YES
- POWER SUPPLY: +30 V @ 50 mA, +5 V @ 200 mA
- 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: SMA FEMALE (J1, J2, J3)
9-PIN MICRO D RCPT (J4 - DC/CONTROL)
MATING CONNECTOR SUPPLIED
- WEIGHT: 255.15 g [9.0 oz] MAX
- STATIC SENSITIVITY: ESD CLASS 1A, HBM - PROPER ESD TECHNIQUES
SHOULD BE USED DURING HANDLING
- J4 CONNECTIONS:

J4 PIN	CONNECT TO
1	U1 +30V
2	N/C
3	NOT USED
4	+5V
5	IN1, (CTRL J2)
6	GROUND
7	GROUND
8	GROUND
9	GROUND

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

ENVIRONMENTAL RATINGS

- TEMPERATURE: -45°C TO +85°C (OPERATING - BASE PLATE)
-54°C TO +125°C (NON-OPERATING)
- ENVIRONMENTAL: MIL-STD-810E
95%RH, 2-7Hz/Inch Amplitude, 7-50Hz 2.5G, 10G
- EMI/EMC: MIL-STD-461

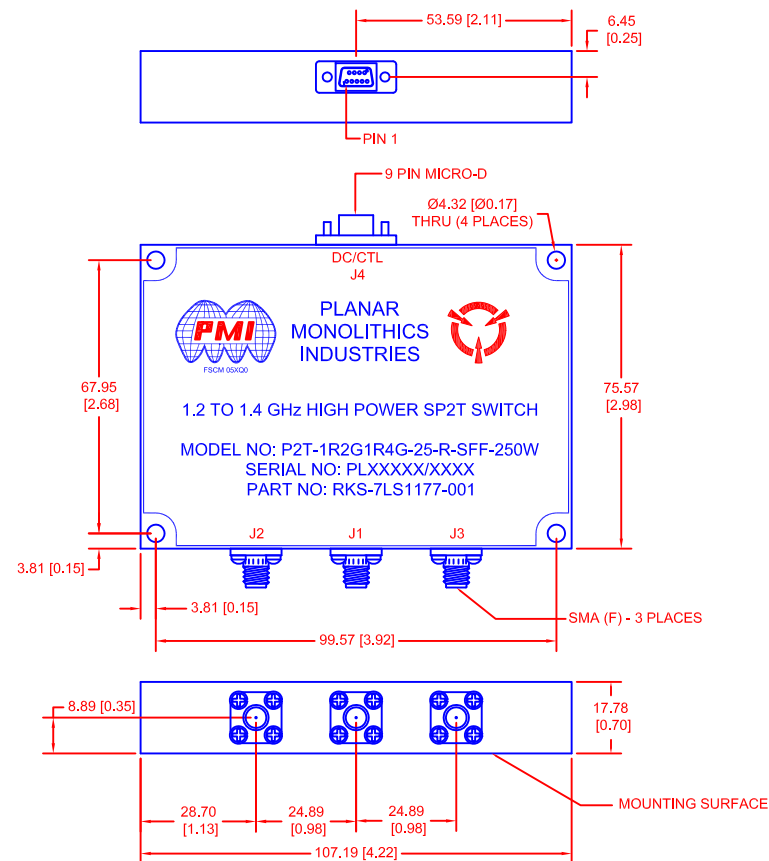
ALL DIMENSIONS ARE IN
mm [INCH] TOLERANCES:
X.XX $\pm$ 0.508 [0.020]
X.XXX $\pm$ 0.254 [0.010]

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/19/16	
	A1	ECN #17-0147	06/25/17	

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	JPH	06/25/17		PRODUCT FEATURE 1.2 to 1.4 GHz 2-Way High Power Switch P2T-1R2G1R4G-25-R-SFF-250W	
CHECKED				SIZE	REV.
ISSUED				A	A1
SCALE		N:S		SHEET	
				1 OF 1	