DESCRIPTION

PMI MODEL NUMBER P2T-1G1R1G-25-R-SFF-100W-SM IS A SINGLE POLE, TWO THROW HERMETICALLY SEALED REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 1.0 GHz TO 1.1 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO HANDLE 100 WATTS AVERAGE INPUT POWER AND 5 kW PEAK HAVING A 17 µs PULSE WIDTH AND 2% DUTY CYCLE.

SPECIFICATIONS

FREQUENCY:		· 1.0 GHz TO 1.1 GHz
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• INSERTION LOSS: · · · · · · · · · · · · · · · 0.8 dB MAX

• PULSE WIDTH: · · · · · · · · · · · · · · 32 us

• PRF: 600 Hz

• SWITCHING SPEED: 250 ns TYP (50% TTL TO 10%/90% RF)

SWITCHING RATE: 2 kHz

COLD SWITCHING: YES

• POWER SUPPLY: · · · · · · · · · · · · · · · · +50V @ 50 mA, +5V @ 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: · · · · · · · · · · · TNC FEMALE (J1, J2, J3) 9-PIN MICRO D (DC/CONTROL)

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

. J4 PIN	CONNECT TO
11	U1 +50V
2	NO CONNECTION
3	NO CONNECTION
4	U1 +5V
5	U1 IN1, (CTL)
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

ENVIRONMENTAL RATINGS

-54°C TO +125°C (NON-OPERATING)

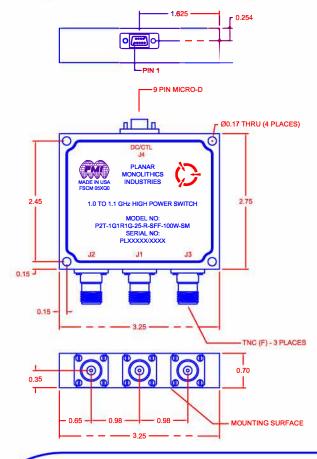
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020

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

PMI CONFIDENTIAL AND PROPRIETARY

	REVISIONS					
ONE	REV.	DESCRIPTION	DATE	APPROVED		
	1	ORIGINAL RELEASE	12/28/15			
	A1	ECN # 16-0179	11/30/16			
			1			

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS DATE		
M. Berry	11/30/16	-
CHECKED		SIZ

PRODUCT FEATURE
P2T-1G1R1G-25-R-SFF-100W-SM
1.0 to 1.1 GHz High Power Switch