

## DESCRIPTION

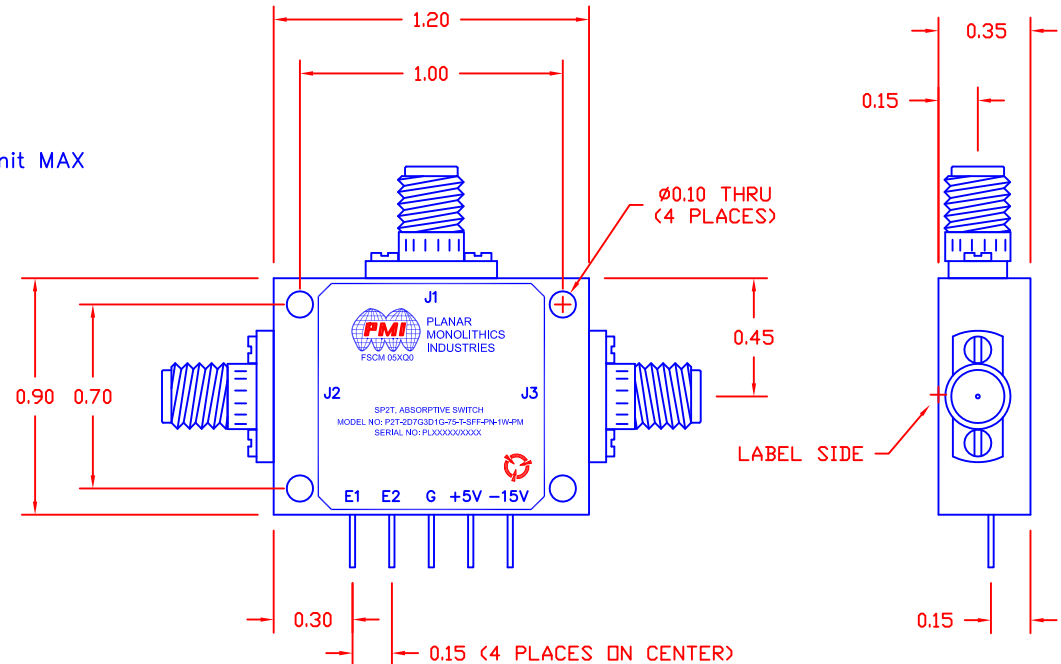
PMI MODEL NUMBER: P2T-2D7G3D1G-75-T-SFF-PN-1W-PM IS A SINGLE POLE, DOUBLE THROW ABSORPTIVE SWITCH DESIGNED TO OPERATE OVER THE 2.7GHZ TO 3.1GHZ FREQUENCY RANGE. THIS MODEL IS DESIGNED TO MAINTAIN LOW INSERTION LOSS, HIGH ISOLATION, AND FAST SWITCHING SPEED.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/20/2021	
	1	IL UPDATE	10/6/2021	

## MECHANICAL OUTLINE

## SPECIFICATIONS

- FREQUENCY RANGE: 2.7 GHz TO 3.1 GHz
- INSERTION LOSS: -1.3dB +/-0.1dB MAX
- INSERTION PHASE TRACKING: +/-2 Degrees W.R.T. Golden Unit MAX
- ISOLATION: 75dB MIN
- RETURN LOSS (BOTH STATES): 18dB MAX
- SPEED: 100ns MAX
- POWER INPUT (OPERATING): 1 WATT (30 dBm) CW MAX
- CONTROL: TTL LOGIC - SEE LOGIC TABLE
- POWER SUPPLY: +5V +/-0.5V @ 80 mA MAX  
-15V +/-3V @ 50 mA MAX
- RF CONNECTORS: SMA FEMALE CONNECTORS
- DC CONNECTORS: SOLDER PINS
- SIZE: (L) 1.2" X (W) .9" (H) 0.35"
- FINISH: PAINTED BLUE



LOGIC TABLE		
2 BIT TTL		
E1	E2	FUNCTION
0	1	J1-J2 "Low Loss"
1	0	J1-J3 "Low Loss"

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

## ENVIRONMENTAL RATINGS:

- TEMPERATURE: -50°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107 COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

## 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](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>JPH</i>		9/20/21	PRODUCT FEATURE			
CHECKED			P2T-2D7G3D1G-75-T-SFF-PN-1W-PM			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	1
			SCALE	N: S	SHEET 1 OF 1	