

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/12/15	
	A1	ECN # 16-0105	8/22/16	

## DESCRIPTION

PMI MODEL P1T-2G4G-75-R-SFF IS A REFLECTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 50 ns MAXIMUM. THE FREQUENCY RANGE IS 2.0 GHz TO 4.0 GHz. THIS SWITCH HAS > 75 dB ISOLATION.

## SPECIFICATIONS

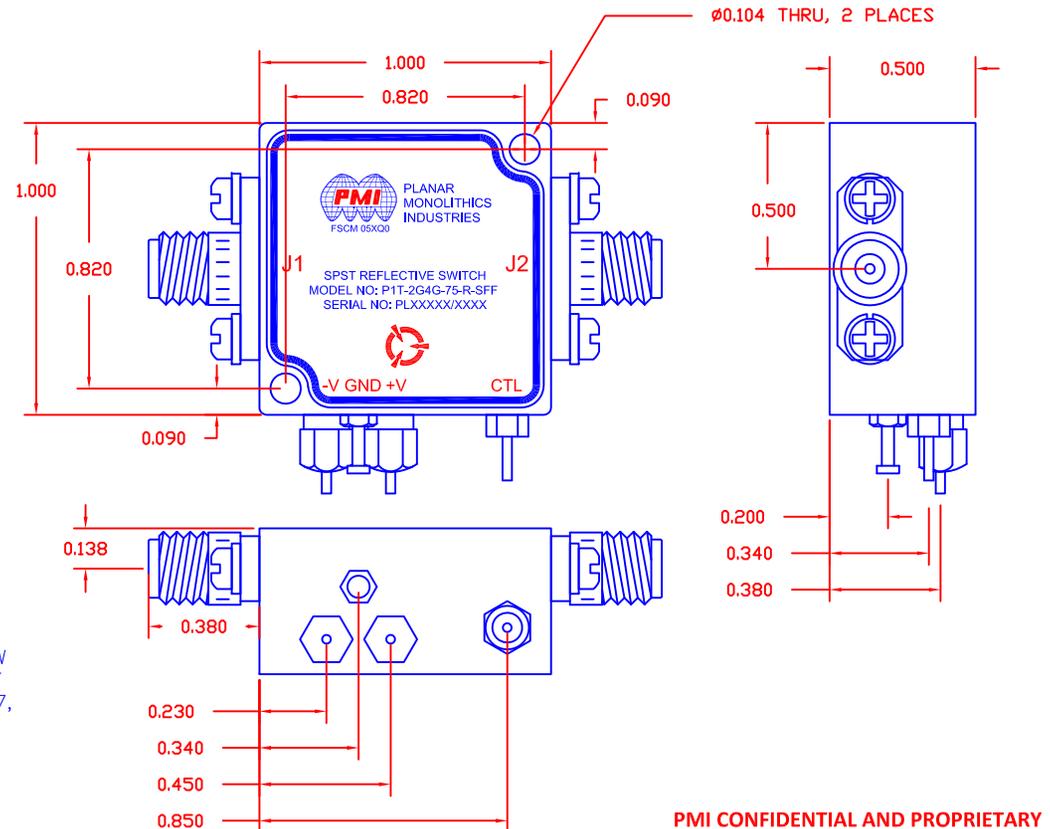
- FREQUENCY RANGE: 2.0 GHz TO 4.0 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: +30dBm MAX (SURVIVAL)  
+20dBm MAX (OPERATING)
- INPUT VSWR: 1.6:1 TYP.
- INSERTION LOSS: 0.85dB TYP.
- ISOLATION: 75dB MIN
- SWITCHING SPEED: 50ns MAX
- DC VOLTAGE: +5VDC, 20mA TYP.  
-15VDC, 20mA TYP.
- CONTROL: SOLDER PIN  
TTL COMPATIBLE  
"0" = INSERTION LOSS  
"1" = ISOLATION
- CONNECTORS IN/OUT: SMA (F)
- SIZE: (L) 1.0" X (W) 1.0" X (H) 0.5"
- FINISH: BLUE EPOXY POLIMIDE COATING IAW  
MIL-C-22750, TYPE I OVER EPOXY  
POLIMIDE PRIMER IAW MIL-P-23377,  
TYPE I, CLASS 1 OR 3.

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°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 107D COND. A

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

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



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

APPROVALS		DATE	TITLE			
DRAWN <i>GAB</i>		10/12/15	PRODUCT FEATURE P1T-2G4G-75-R-SFF			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27027021	REV. A1
ISSUED			SCALE N: S		SHEET 1 OF 1	