

## DESCRIPTION

PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT2G6G-LVTTL IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW FET SWITCH THAT OPERATES FROM 2.0 TO 6.0 GHZ. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

## SPECIFICATIONS

- FREQUENCY RANGE: 2.0 to 6.0 GHz
- ISOLATION: 65 dB TYP, 55 dB MIN
- INSERTION LOSS: 2.5 dB TYP, 3.0 dB MAX
- VSWR IN / OUT: 2.0:1 MAX
- INPUT POWER: +17 dBm CW MAX
- SWITCHING SPEED: 6 ns TYP, 7 ns MAX
- RISE/FALL TIME: 1 ns TYP, 2 ns MAX
- DC VOLTAGE: +5 V @ 15 mA MAX  
-5 V @ 40 mA MAX
- CONTROL LOGIC: "1"=ON @ 0V TO 1.2V  
"0"=OFF @ 3.3V TO 5.5V
- CONNECTORS IN/OUT: SMA FEMALE CONNECTORS
- CONTROL CONNECTORS: SMC
- FINISH: BLUE PAINTED
- SIZE: 1.2" X 1.3" X 0.5"

\*ROHS AND NON-ROHS AVAILABLE

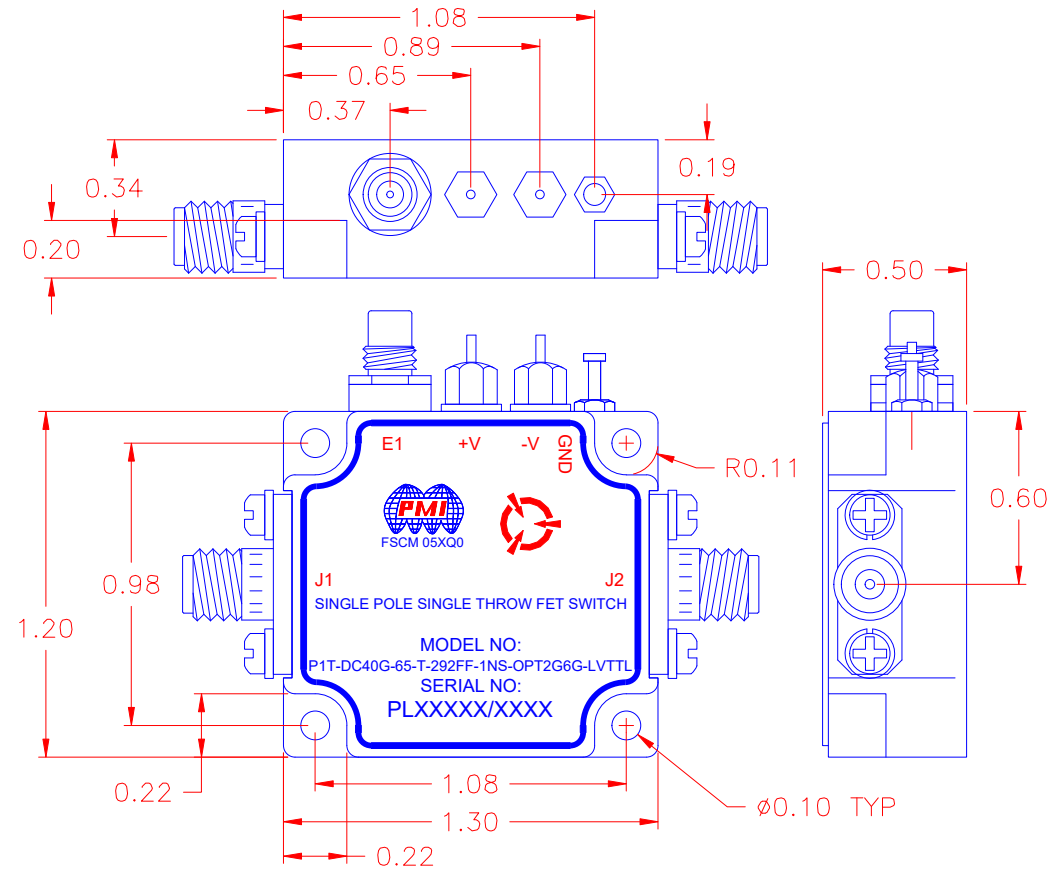
## ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)  
-55°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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/13/18	
	B1	LOGIC UPDATE	10/10/18	
	C1	ECN # 24-0266	10/18/24	

## MECHANICAL OUTLINE



SINGLE POLE, SINGLE THROW FET SWITCH **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	JPW	01/09/17	PRODUCT FEATURE		
REDRAWN	EW	2/21/18	SINGLE POLE SINGLE THROW FET SWITCH		
ISSUED			P1T-DC40G-65-T-292FF-1NS-OPT2G6G-LVTTL		
			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27034540
			SCALE	N:S	SHEET 1 OF 1
					REV. C1