

## DESCRIPTION

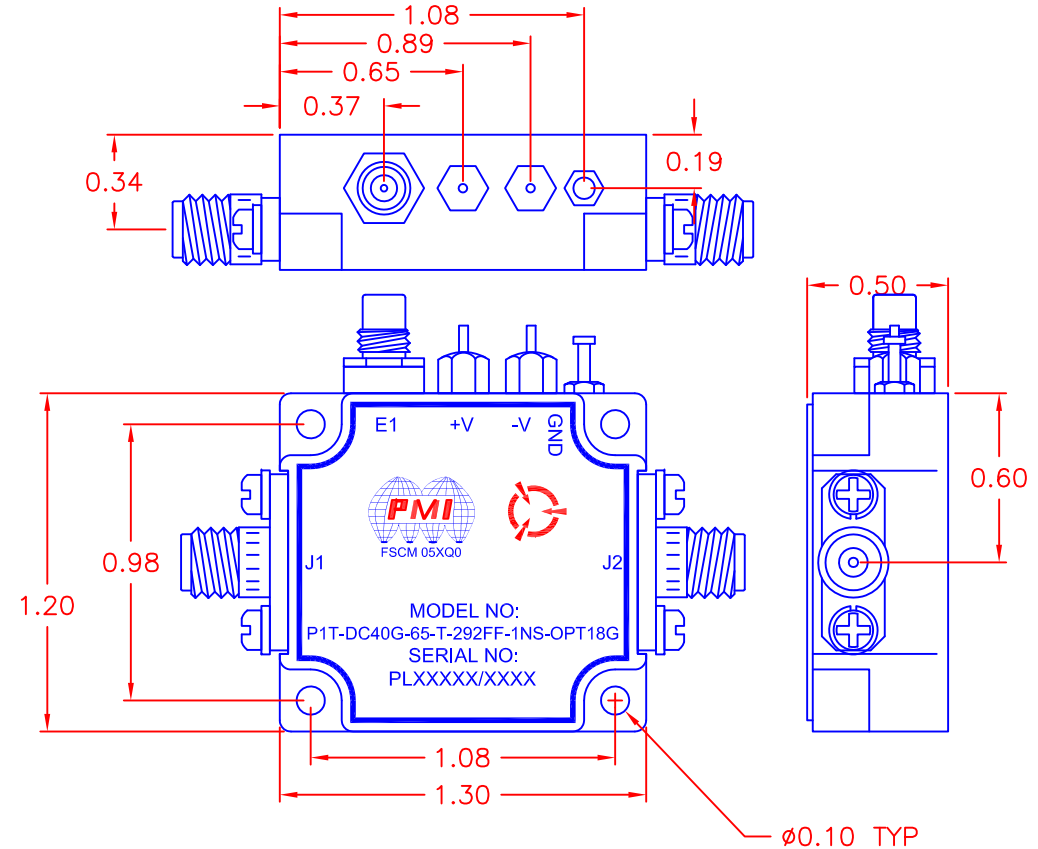
PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT18G IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW FET SWITCH THAT OPERATES FROM DC TO 18 GHZ. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	08/12/18	
	A1	ECN # 15-0067	04/24/15	
	B1	ECN # 16-0202	12/19/16	

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ DC to 18GHz
- ISOLATION: \_\_\_\_\_ 60dB Typical, 55dB Min.
- INSERTION LOSS: \_\_\_\_\_ 4.5dB Typical, 5.0dB Max.
- VSWR IN / OUT: \_\_\_\_\_ 2.0:1 Typical, 2.2:1 Max.
- INPUT POWER: \_\_\_\_\_ +17 dBm CW MAX
- SWITCHING SPEED: \_\_\_\_\_ 6ns Typical, 7ns Max.
- RISE/FALL TIME: \_\_\_\_\_ 1ns Typical, 2ns Max.
- CONTROL SIGNAL: \_\_\_\_\_ TTL "1" = ON
- VIDEO TRANSIENTS: \_\_\_\_\_ 300 MHz BW (2-18 GHz) : 85mV P-P  
20 MHz BW (2-18 GHz) : 15mV P-P
- DC VOLTAGE: \_\_\_\_\_ +8 to +15V @ 15mA Max.  
-8 to -15V @ 40mA Max.
- CONNECTORS IN/OUT: \_\_\_\_\_ SMA FEMALE CONNECTORS
- CONTROL CONNECTORS: \_\_\_\_\_ SMC
- 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.
- SIZE: \_\_\_\_\_ 1.2" X 1.3" X 0.5"

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## 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

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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>sfc</i>		08/12/18	PRODUCT FEATURE			
CHECKED			P1T-DC40G-65-T-292FF-1NS-OPT18G			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27025062	B1
			SCALE	N:S		SHEET 1 OF 1