

## DESCRIPTION

PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT18G-55 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.

## 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: +5 V @ 15mA Max.  
-5 V @ 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"

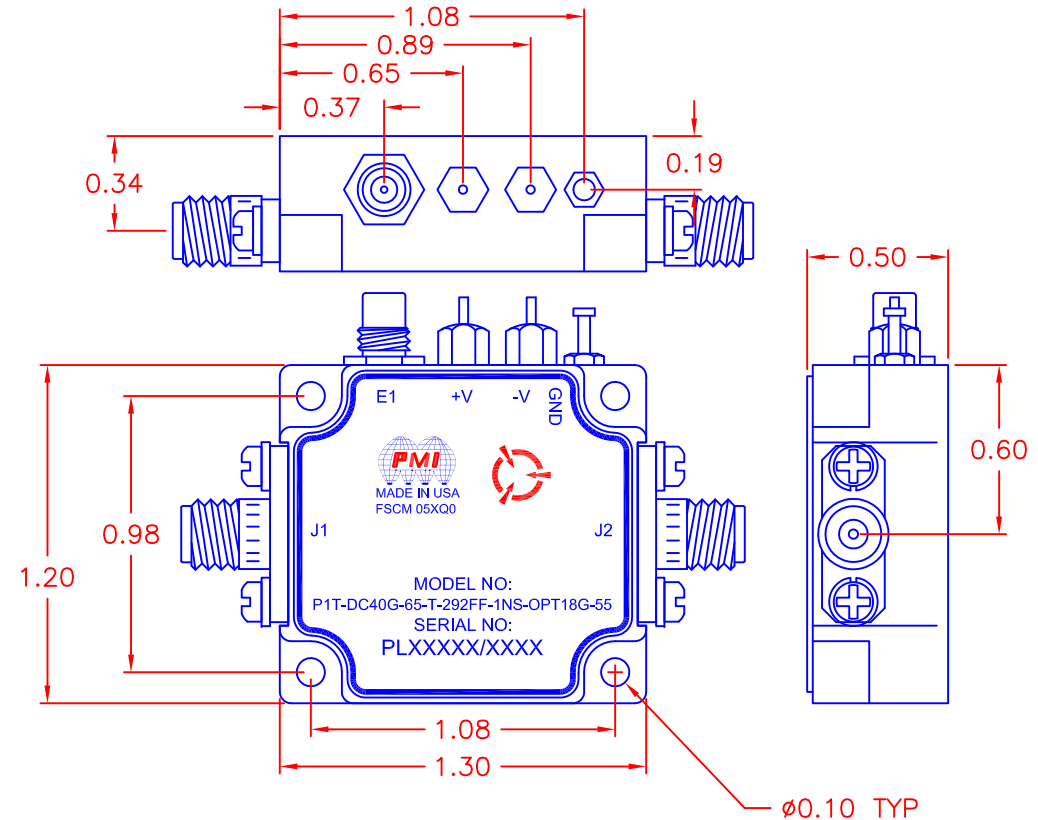
## ENVIRONMENTAL RATINGS

- 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
	-	PRELIMINARY	08/30/16	

## MECHANICAL OUTLINE



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



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

APPROVALS		DATE	TITLE			
DRAWN <i>E.M.F.</i>		08/30/16	PRODUCT FEATURE P1T-DC40G-65-T-292FF-1NS-OPT18G-55			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N:S	SHEET 1 OF 1		