

## DESCRIPTION

PMI MODEL: P1T-18G40G-30-1515-292FF IS A SINGLE POLE, SINGLE THROW ABSORPTIVE SWITCH DESIGNED TO OPERATE OVER THE 18.0 GHz TO 40.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF SWITCHING WITHIN 15 TO 25 ns WHILE MAINTAINING A MINIMUM ISOLATION OF 30 dB.

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 18.0 TO 40.0 GHz
- ISOLATION: ----- 30 dB MINIMUM
- INSERTION LOSS: ----- 4.0 dB MAXIMUM
- VSWR (IN/OUT): ----- 2.0:1 MAXIMUM  
1.5:1 GOAL
- INPUT POWER: ----- +23 dBm CW MAXIMUM
- RF SWITCHING SPEED  
(10% TO 90% RF): ----- 25 ns MAXIMUM  
15 ns GOAL
- POWER SUPPLY: ----- ±15V @ 100 mA
- CONTROL SIGNAL: ----- "ON": 0 VDC  
"OFF": +5 VDC
- SIZE: ----- 2.00" x 1.50" x 0.75"
- CONNECTORS: ----- FIELD REPLACEABLE 2.92 MM FEMALE
- FINISH: ----- GOLD PLATED

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)  
-55 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

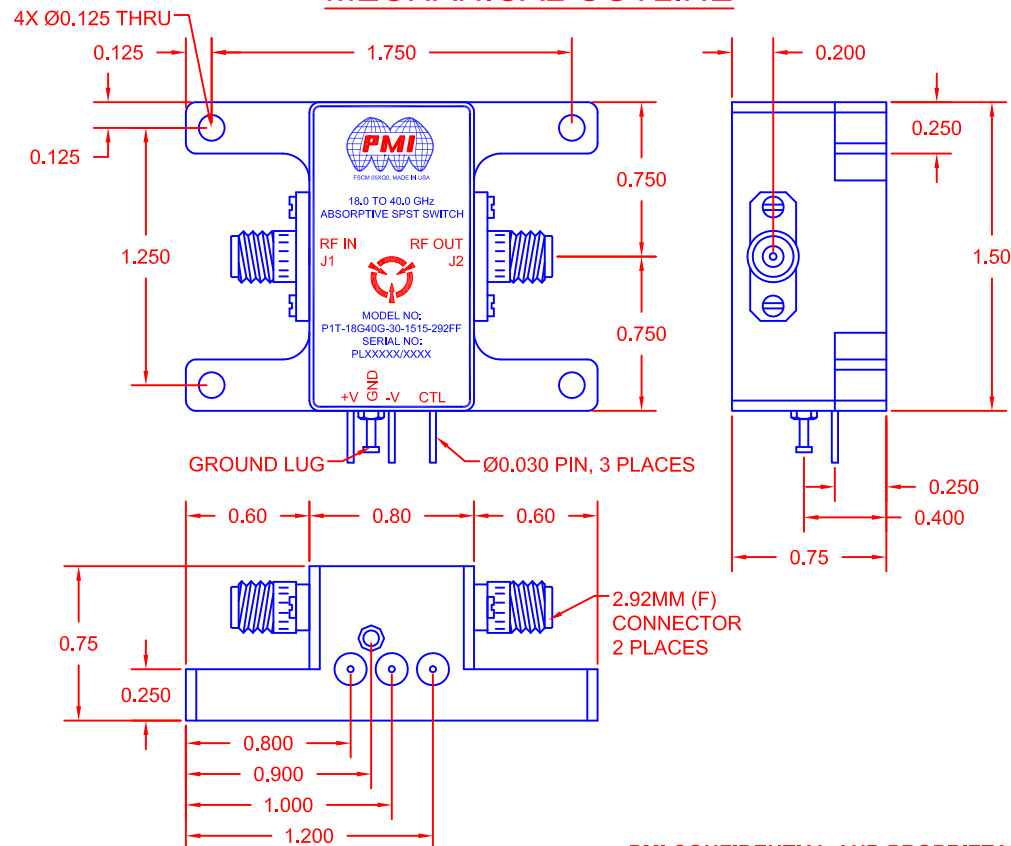
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	04/30/18	

## 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

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>PJK</i>		03/17/10	PRODUCT FEATURE P1T-18G40G-30-1515-292FF 18.0 to 40.0 GHz Absorptive Single Pole Single Throw Switch			
REDRAWN <i>M. Berry</i>		04/30/18	SIZE A	FSCM NO. 05XQ0	DWG NO. 27034960	REV. A1
ISSUED			SCALE N:S		SHEET 1 OF 1	