

## DESCRIPTION

PMI MODEL NUMBER: P6T-33G38G-60-T-5-292FF IS A SINGLE POLE, SIX THROW ABSORBPTIVE SOLID STATE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 33.0 TO 38.0 GHz. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 6.5 dB AND A MINIMUM ISOLATION SPECIFICATION OF 60 dB. IT OPERATES AT 23 dBm CW MAXIMUM, AND HAS A SURVIVAL SPECIFICATION OF 27 dBm CW MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: 33.0 TO 38.0 GHz
- INSERTION LOSS: 6.5 dB MAX
- ISOLATION: 60 dB MAX
- VSWR: 2.0:1 MAX
- INPUT POWER: 23 dBm CW MAX (OPERATING)  
27 dBm CW MAX (SURVIVAL)
- SWITCHING SPEED: 50ns MAX
- CONTROL: 6 LINE TTL LOGIC
  - LOGIC 0: (INSERTION LOSS)
  - LOGIC 1: (ISOLATION)
- DC SUPPLY: +5 VDC @ 300 mA TYP
- CONNECTORS: 2.92mm (F) REMOVABLE
- SIZE: (L) 1.5" X (W) 2.0" (H) 0.4"

## ENVIRONMENTAL RATINGS

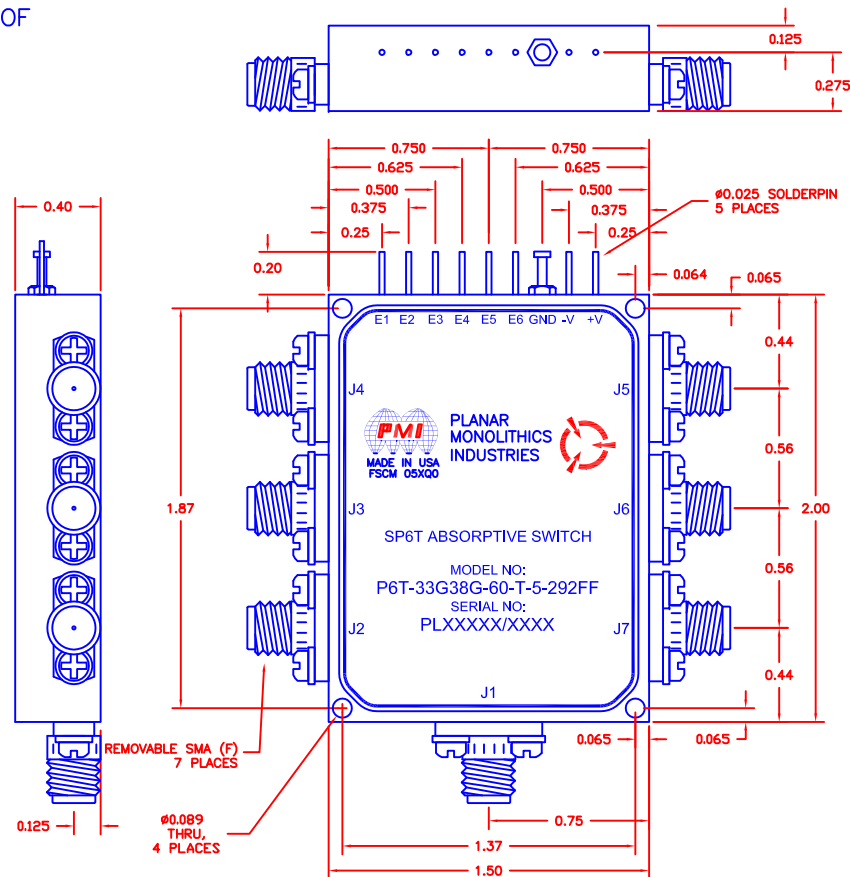
- TEMPERATURE: -40°C TO + 85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	4/12/18	

## 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  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN	<i>slc</i>	10/02/18	PRODUCT FEATURE			
CHECKED	<i>EW</i>	4/12/18	P6T-33G38G-60-T-5-292FF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S		SHEET 1 OF 1