

DESCRIPTION

PMI MODEL NUMBER: P1T-0R5G18G-60-T-512-SFF IS A SINGLE POLE, SINGLE THROW ABSORPTIVE SOLID STATE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 0.5 TO 18.0 GHz. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 3.5dB AND AN ISOLATION SPECIFICATION OF 60dB. IT OPERATES AT 20dBm CW, AND CAN SURVIVE 1 WATT CW, 10 WATTS PEAK FOR 1 us.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18.0 GHz
- INSERTION LOSS: 3.5dB MAX
- ISOLATION: 60dB (0.5 TO 2.0 GHz)
70dB (2.0 TO 18.0 GHz)
- VSWR (IN/OUT): 2.0:1
- SWITCHING SPEED:
 - RISE/FALL: 10ns TYP, 15ns MAX
 - DELAY ON/OFF: 75ns TYP, 100ns MAX
- INPUT POWER: +20dBm CW
- SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK, 1 us
- CONTROL: TTL LOGIC = "0" - ON, "1" - OFF
- POWER SUPPLY: +5VDC @ 70mA MAX
-12VDC @ 100mA MAX
- CONNECTORS: SMA FEMALE
- SIZE: (L) 1.0" X (W) 1.0" (H) 0.5"
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

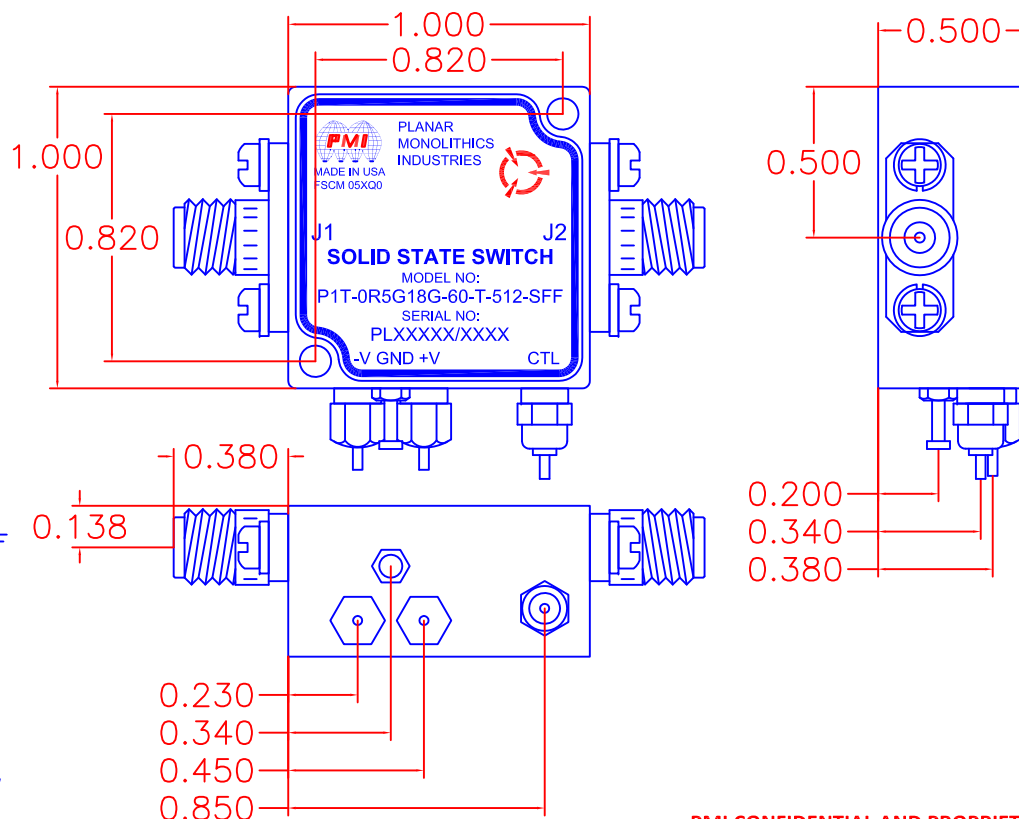
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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
	1	ORIGINAL RELEASE	10/18/19	

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
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN	<i>afk</i>		10/18/19	PRODUCT FEATURE	
CHECKED				P1T-0R5G18G-60-T-512-SFF	
ISSUED				SIZE	FSCM NO.
				A	05XQ0
				DWG NO.	27020981
				SCALE	N:S
				SHEET	1 OF 1