

DESCRIPTION

PMI MODEL NUMBER: P6T-2G18G-60-T-512-SFF-LV IS A SINGLE POLE, SIX THROW ABSORBPTIVE SOLID STATE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 2 GHz TO 18 GHz. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 4.0dB AND A MINIMUM ISOLATION SPECIFICATION OF 60dB. IT OPERATES AT 23dBm CW MAXIMUM, AND HAS A SURVIVAL SPECIFICATION OF 27dBm CW MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 2 TO 18 GHz
- INSERTION LOSS: 4dB MAX
 - TRACKING: 0.8dB WINDOW MAX
- ISOLATION: 60dB MAX
- VSWR: 2.0:1 MAX
- IMPEDANCE: 50 OHMS
- INPUT POWER: 23dBm CW MAX (OPERATING)
27dBm CW MAX (SURVIVAL)
- SWITCHING SPEED: 50ns MAX
 - ON: 50% TTL TO 90% RF
 - OFF: 50% TTL TO 10% RF
- SWITCHING RATE PRF: 5MHz
- VIDEO LEAKAGE: 50mV PEAK-PEAK MAX
MEASURED AT 300MHz BW
- CONTROL: 6 LINE INDEPENDENT TTL LOGIC
 - LOGIC 0: 1.6mA MAX SINK @ 0.4V (INSERTION LOSS)
 - LOGIC 1: 40uA MAX SOURCE @ 2.4V (ISOLATION)
- DC SUPPLY: +5VDC @ 300mA TYP
-12VDC @ 100mA TYP
- CONNECTORS: SMA (F) REMOVABLE
- SIZE: (L) 1.5" X (W) 2.0" (H) 0.4"
- SEALING: HERMETIC
- 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

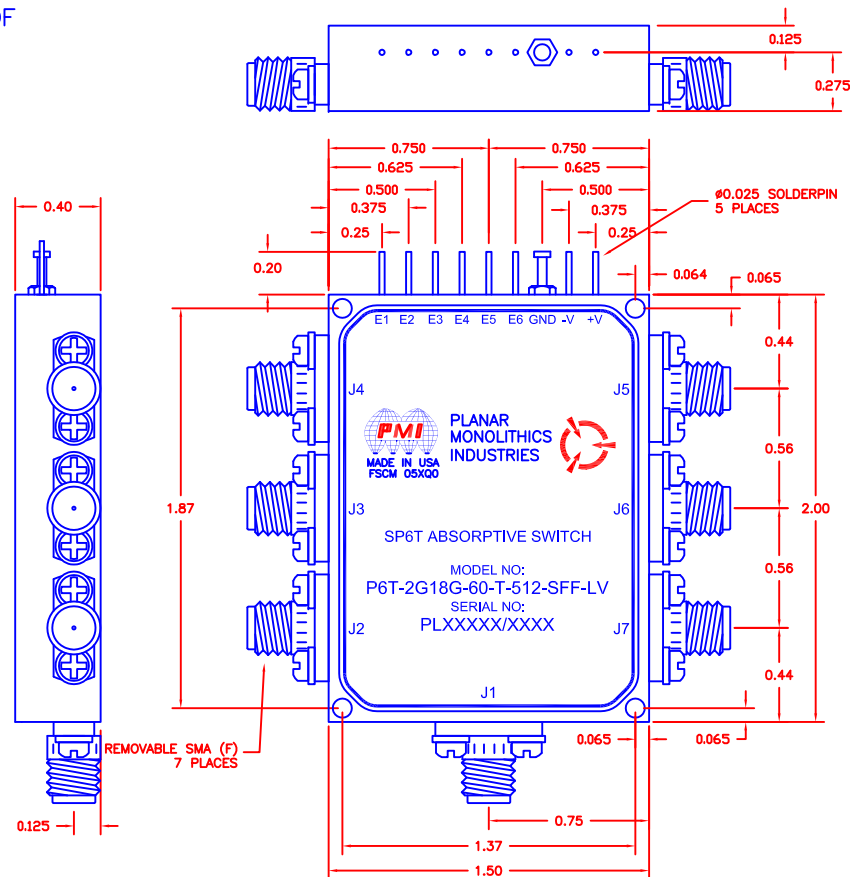
- TEMPERATURE: -40°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND.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

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/02/18	

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



APPROVALS		DATE	TITLE			
DRAWN <i>sfc</i>		10/02/18	PRODUCT FEATURE			
CHECKED			P6T-2G18G-60-T-512-SFF-LV			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27020041	A1
			SCALE	N:S		SHEET
					1 OF 1	