

DESCRIPTION:

PMI MODEL NUMBER: P6T-2G18G-60-T-512-SFF-LV-SP 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 MIN
- 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)
- *SURGE PROTECTION INCLUDED ON TTL LINES
- DC SUPPLY: _____ +5VDC @ 300mA TYP
-12VDC @ 100mA TYP
- CONNECTORS: _____ SMA (F) REMOVABLE
- SIZE: _____ (L) 1.5" X (W) 2.0" (H) 0.4"
- SEALING: _____ UNLESS OTHERWISE SPECIFIED, PMI WILL SUPPLY EPOXY SEAL
- 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.

ENVIRONMENTAL RATINGS:

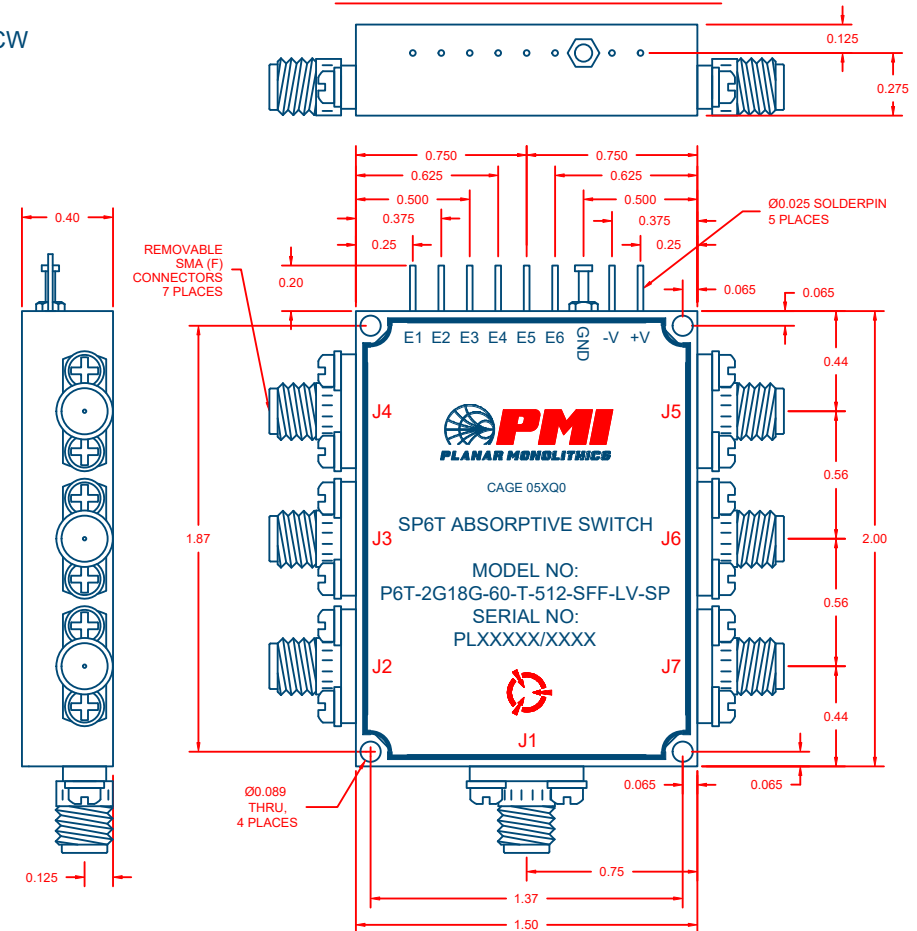
- TEMPERATURE: _____ -40°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: _____ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: _____ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: _____ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: _____ MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: _____ 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
	A1	ORIGINAL RELEASE	05/19/2020	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN SPH		5/19/20	PRODUCT FEATURE P6T-2G18G-60-T-512-SFF-LV-SP		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27032840
ISSUED			SCALE N:S		SHEET 1 OF 1
					REV. A1