

DESCRIPTION

PMI MODEL P1T-DC18-60-T-SFF-HSLVT IS A SINGLE POLE, SINGLE THROW, ABSORPTIVE SWITCH WHICH OFFERS ULTRA-LOW VIDEO TRANSIENT PERFORMANCE WHILE PROVIDING ULTRA-FAST SWITCHING SPEED AND HIGH ISOLATION. THIS SWITCH MODULE CONTAINS AN INTEGRAL TTL DRIVER AND THE DC SUPPLY VOLTAGE IS ONLY -5V.

SPECIFICATIONS

- FREQUENCY RANGE: _____ DC TO 18GHz
- INSERTION LOSS: _____ 4.5dB MAX
- ISOLATION
 - 10MHz TO 2GHz: _____ 55dB MIN
 - 2GHz TO 12GHz: _____ 60dB MIN
 - 12GHz TO 18GHz: _____ 70dB MIN
- VSWR: _____ 2.0:1
- RISE TIME: _____ 1ns TYP, 2ns MAX
- FALL TIME: _____ 1ns TYP, 2ns MAX
- DELAY ON: _____ 12ns TYP, 15ns MAX
- DELAY OFF: _____ 12ns TYP, 15ns MAX
- VIDEO TRANSIENT
 - 300MHz BW(2-18 GHz) _____ 20mV P-P
 - 20MHz BW(2-18 GHz) _____ 4mV P-P
- POWER INPUT: _____ (CW)+20dBm
- SURVIVAL POWER: _____ 1 WATT CW, 10 WATTS PEAK 1us
- CONTROL: _____ TTL LOGIC "0" = ON
TTL LOGIC "1" = OFF
- POWER SUPPLY: _____ -5V @ 25mA MAXIMUM
- CONNECTORS
 - RF: _____ SMA FEMALE
 - CONTROL: _____ SOLDER PIN
- SIZE: _____ (L) 1.0" X (W) 1.0" X (H) 0.5"
- WEIGHT: _____ 1.5 OUNCE TYP
- 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.

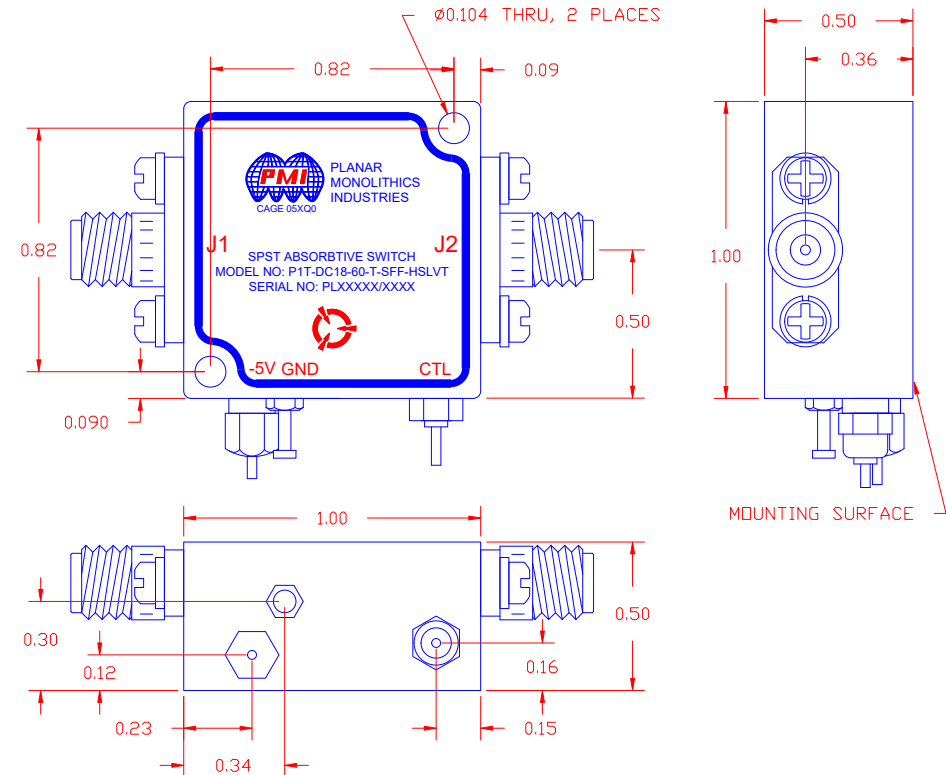
ENVIRONMENTAL RATINGS

- TEMPERATURE: _____ -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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ECN # 17-0065	04/08/17	
	A2	ECN # 23-0154	8/14/23	
	A3	ECN # 23-0202	10/25/23	

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



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

APPROVALS		DATE	TITLE			
DRAWN <i>B. Thomas</i>		12/2/15	PRODUCT FEATURE P1T-DC18-60-T-SFF-HSLVT			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27028081	REV. A3
ISSUED			SCALE N: S		SHEET 1 OF 1	