

DESCRIPTION

PMI MODEL NUMBER: P16T-100M20G-60-T-512-SFF IS A SINGLE POLE, SIXTEEN THROW ABSORBPTIVE PIN DIODE SWITCH THAT OPERATES FROM 0.1 TO 20 GHz FREQUENCY RANGE. THIS MODEL HAS A TYPICAL INSERTION LOSS OF 8.5 dB AND 60 dB OF ISOLATION. IT OPERATES AT 20 dBm CW, AND HAS A SURVIVAL POWER OF 1 WATT CW, 10 WATTS PEAK, FOR 1 MICROSECOND.

SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 20 GHz
- INSERTION LOSS: 8.5dB TYP
- ISOLATION: 60dB TYP
- VSWR – INPUT/OUTPUT: 2.0:1 TYP, 2.5:1 MAX
- VSWR – OUTPUT/OFF: 2.0:1 TYP, 2.5:1 MAX
- SWITCHING SPEED:
 - RISE/FALL: 50 ns TYP
 - DELAY ON/OFF: 150 ns MAX
- INPUT POWER: +20 dBm CW
- SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK, 1us
- CONTROL: TTL LOGIC – "0" = ON "1" = OFF
- CONNECTORS: SMA (F) REMOVABLE
- POWER SUPPLY: +5 VDC @ 750 mA MAX
-12 VDC @ 200 mA MAX
- SIZE: (L) 8.00" X (W) 3.00" (H) 0.65"
- FINISH: GOLD PLATED

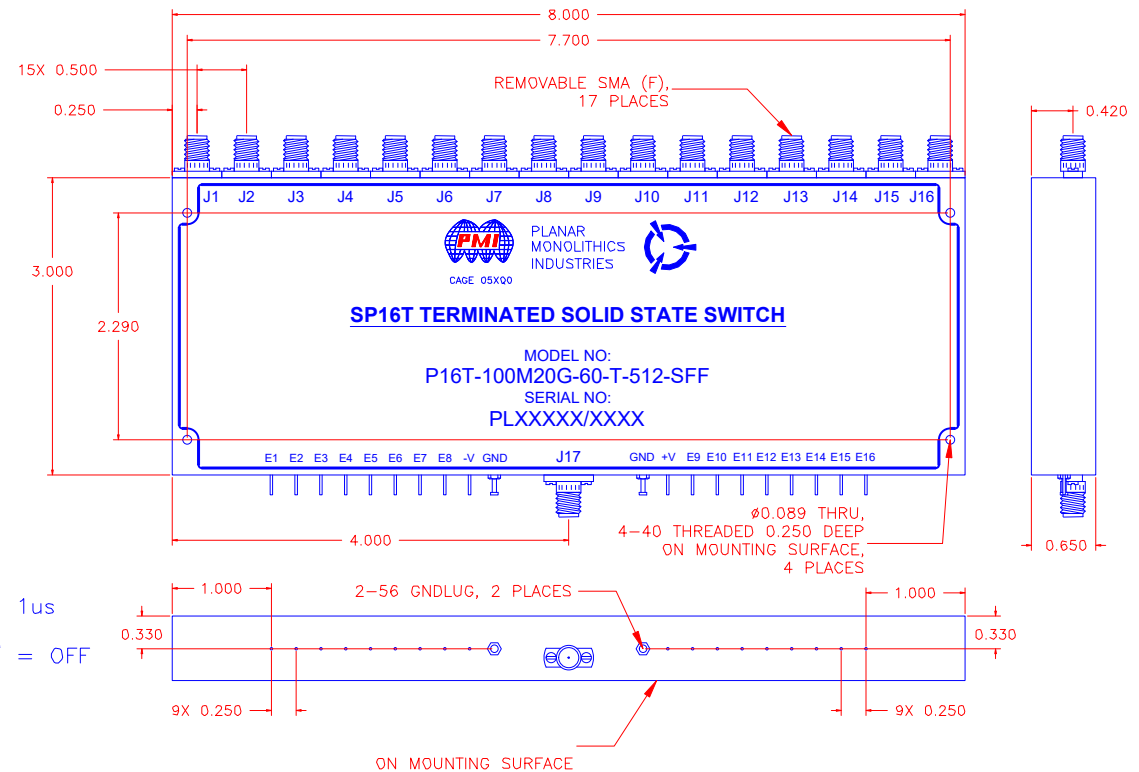
ENVIRONMENTAL RATINGS:

- 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 107 COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	08/14/13	
	A1	ECN # 14-0181	11/16/14	
	B1	ECN # 25-0242	8/15/25	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS		DATE	TITLE			
DRAWN <i>sfk</i>		08/19/13	PRODUCT FEATURE P16T-100M20G-60-T-512-SFF			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27020181	REV. B1
ISSUED			SCALE N:S		SHEET 1 OF 1	