

## DESCRIPTION

PMI MODEL NUMBER: P16T-100M20G-110-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 9.5dB AND 110dB OF ISOLATION. IT OPERATES AT 20dBm CW WITH DC POWER SUPPLIES OF +5 AND -12VDC.

## SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 20GHz
- INSERTION LOSS: 9.5dB TYP., 10.5dB MAX.
- ISOLATION: 110dB MIN
- VSWR - INPUT/OUTPUT: 2.0:1
- VSWR - OUTPUT/OFF: 2.0:1
- SWITCHING SPEED:
  - RISE/FALL: 50ns TYP
  - DELAY ON/OFF: 150ns TYP
- INPUT POWER: +20dBm CW MAX (OPERATING)
- CONTROL: TTL LOGIC - "0" = ON "1" = OFF
- CONNECTORS: SMA (F) REMOVABLE
- POWER SUPPLY: +5VDC @ 750mA MAX  
-12VDC @ 200mA MAX
- SIZE: (L) 8.00" X (W) 3.00" (H) 0.65"
- FINISH: GOLD PLATED

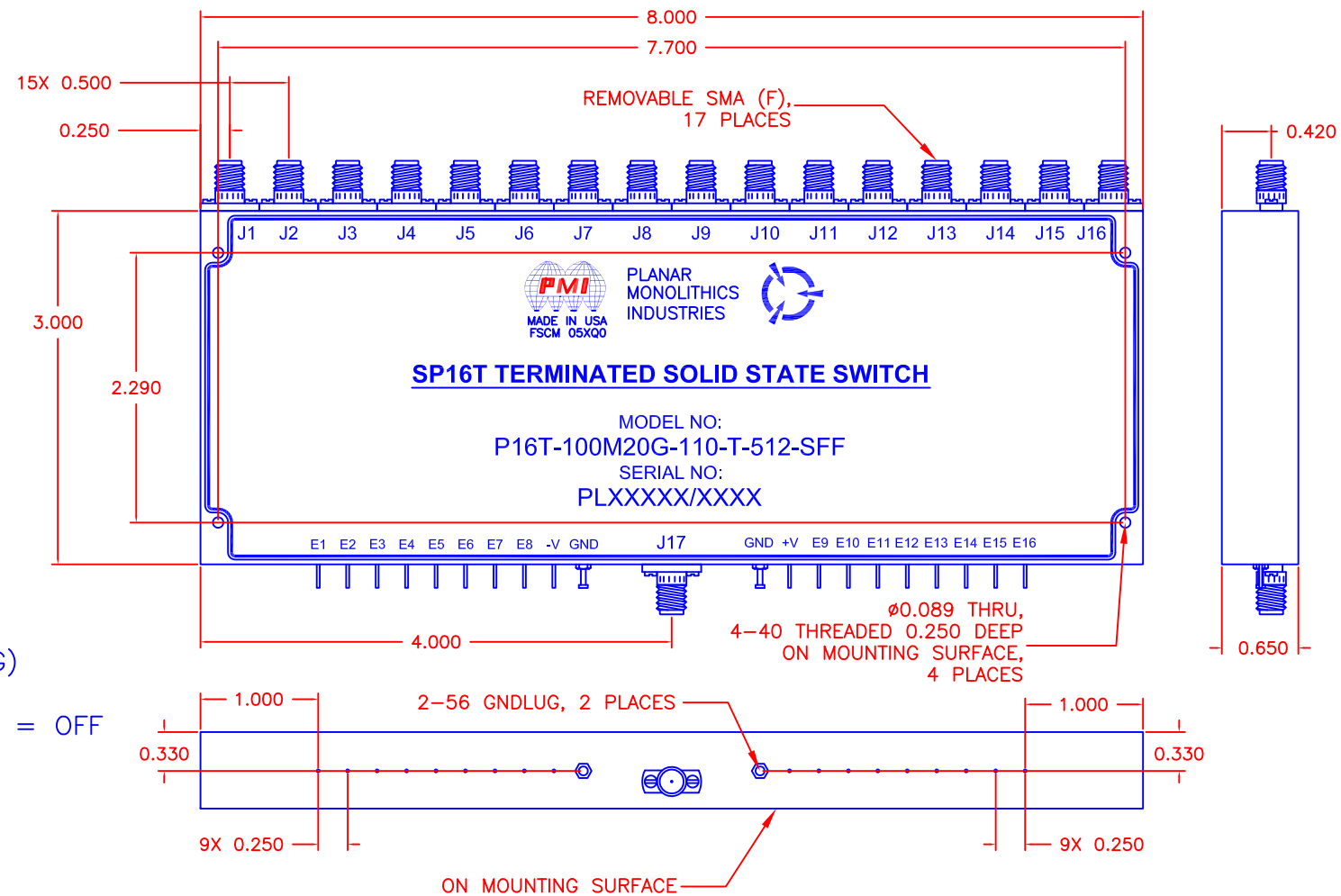
## ENVIRONMENTAL RATINGS:

- 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
	-	PRELIMINARY	9/9/14	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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 ISO 9001 CERTIFIED



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

APPROVALS		DATE	TITLE			
DRAWN <i>KM</i>		9/9/14	PRODUCT FEATURE			
CHECKED			P16T-100M20G-110-T-512-SFF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S		SHEET
					1 OF 1	