

## DESCRIPTION

PMI MODEL NUMBER: P16T-18G40G-90-T-512-SFF-DEC IS A SINGLE POLE, SIXTEEN THROW ABSORBPTIVE PIN DIODE SWITCH THAT OPERATES FROM 18.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL HAS A TYPICAL INSERTION LOSS OF 8.5dB AND 50dB OF ISOLATION. IT OPERATES AT 20dBm CW AND IS CONTROLLED WITH 4-BIT DECODED TTL LOGIC.

## SPECIFICATIONS

- FREQUENCY RANGE: 18.0 TO 40.0 GHz
- INSERTION LOSS: 12dB Typ.
- ISOLATION: 50dB Min.
- VSWR - INPUT/OUTPUT: 2.5:1 Typ.
- VSWR - OUTPUT/OFF: 2.5:1 Typ.
- SWITCHING SPEED:
  - RISE/FALL: 50ns Typ. / 10ns Typ.
  - DELAY ON/OFF: 150ns Max.
- INPUT POWER: +20dBm CW
- CONTROL: 4-BIT DECODED TTL LOGIC - SEE TABLE
- CONNECTORS: 2.92mm (F) REMOVABLE
- POWER SUPPLY: +5VDC @ 750mA Max.  
-12VDC @ 200mA Max.
- SIZE: (L) 8.00" X (W) 3.00" (H) 0.65"
- FINISH: GOLD PLATED

## OPTIONS:

- -IND: INDIVIDUAL CONTROL LOGIC

## 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

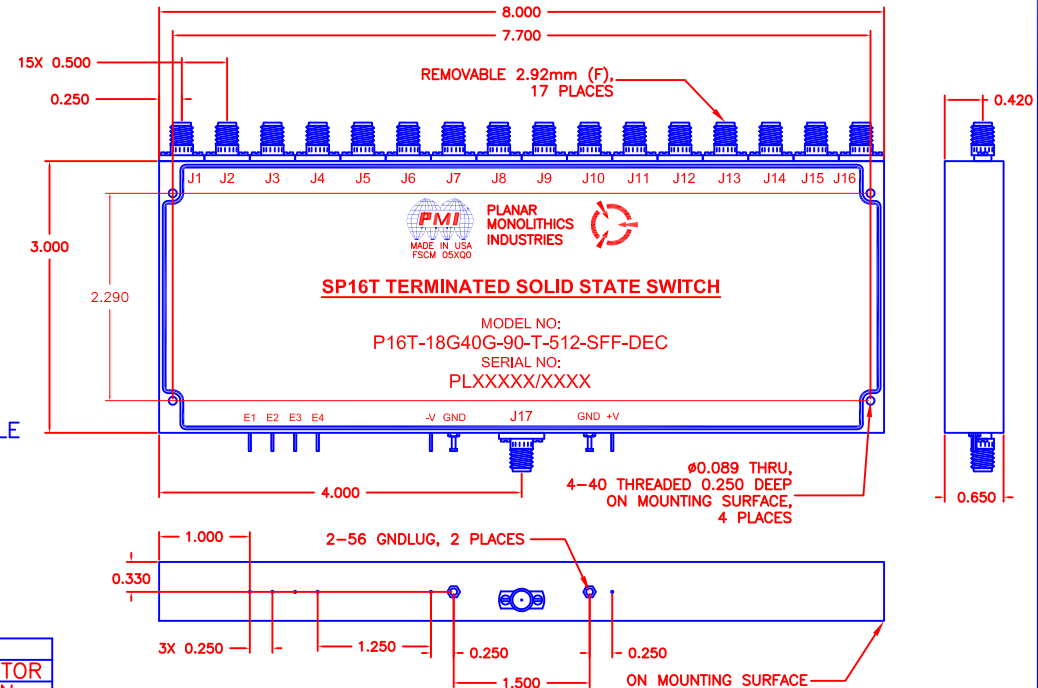
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

LOGIC TABLE				
E1	E2	E3	E4	CONNECTOR
0	0	0	0	J1 ON
0	0	0	1	J2 ON
0	0	1	0	J3 ON
0	0	1	1	J4 ON
0	1	0	0	J5 ON
0	1	0	1	J6 ON
0	1	1	0	J7 ON
0	1	1	1	J8 ON
1	0	0	0	J9 ON
1	0	0	1	J10 ON
1	0	1	0	J11 ON
1	0	1	1	J12 ON
1	1	0	0	J13 ON
1	1	0	1	J14 ON
1	1	1	0	J15 ON
1	1	1	1	J16 ON

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	5/4/17	
	A1	ECN#17-0201	8/29/17	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>B. Thomas</i>		5/4/17	PRODUCT FEATURE P16T-18G40G-90-T-512-SFF-DEC		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27031721
ISSUED					REV. A1
SCALE N:S				SHEET 1 OF 1	