

DESCRIPTION

PMI MODEL NUMBER P16T-250M18G-80-T-515-SFF-DEC-1W-DB IS A SINGLE POLE, SIXTEEN THROW ABSORBPTIVE PIN DIODE SWITCH THAT OPERATES FROM 0.25 TO 18 GHz FREQUENCY RANGE. THIS MODEL HAS A TYPICAL INSERTION LOSS OF 7.0 dB, 80 dB OF ISOLATION, AND OPERATES AT 30 dBm CW POWER HANDLING.

SPECIFICATIONS

- FREQUENCY RANGE: 0.25 TO 18 GHz
- INSERTION LOSS: 6.0 dB GOAL / 7.0 dB MAX
- ISOLATION: 80 dB MIN
- 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 / 10 ns TYP
 - DELAY ON/OFF: 150 ns MAX
- INPUT POWER: +30 dBm CW
- SURVIVAL POWER: 10 WATTS PEAK, 1 μs
- CONTROL: 4-BIT DECODED TTL LOGIC - SEE TABLE
- ENABLE PIN: "1" = ON
"0" = ALL OFF CONDITION
INTERNALLY PULLED HIGH
- POWER SUPPLY: +5 VDC @ 750 mA MAX
-15 VDC @ 200 mA MAX
- CONNECTORS: SMA (F) REMOVABLE
- SIZE: (L) 8.00" X (W) 3.00" (H) 0.65"
- FINISH: GOLD PLATED

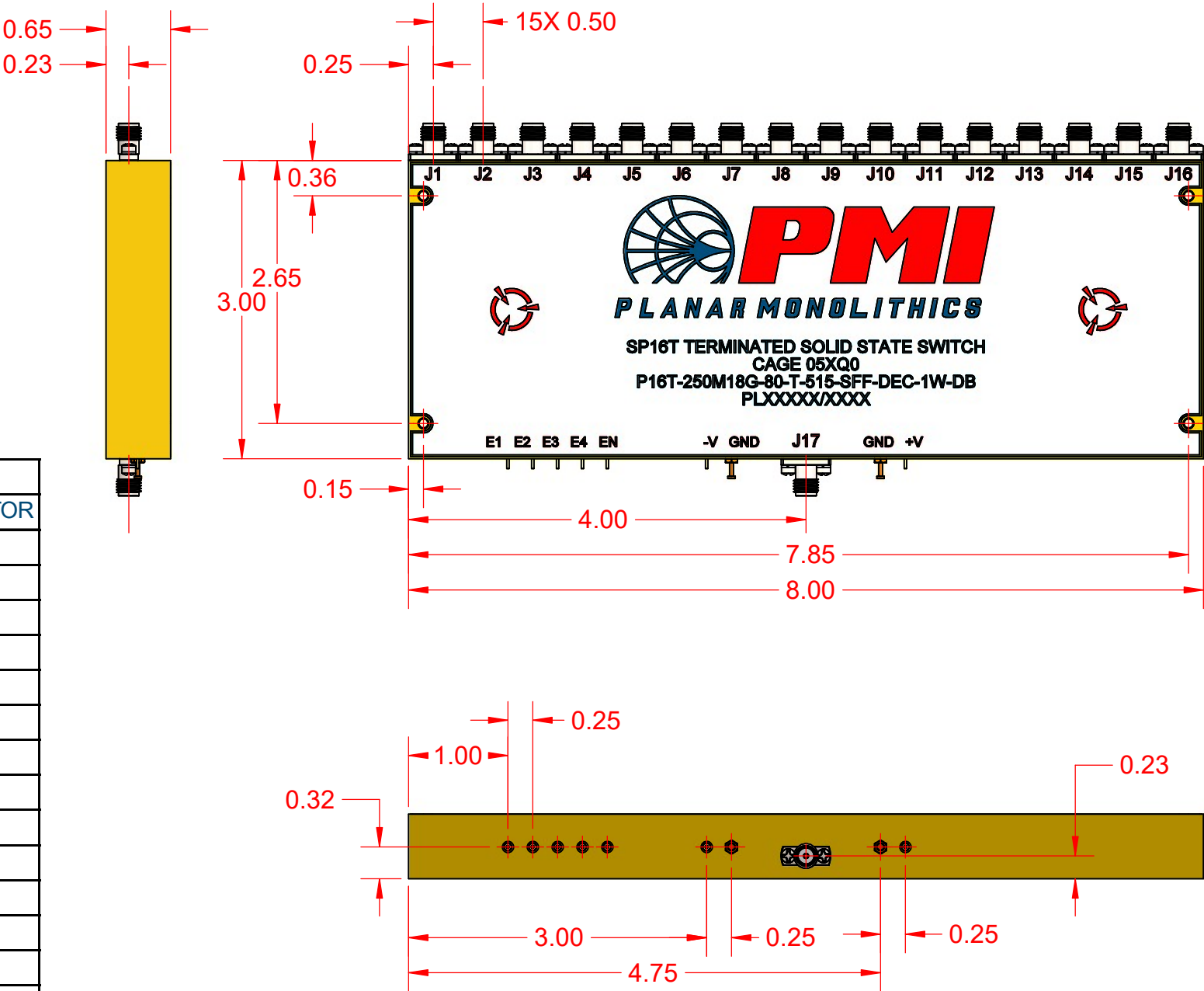
TTL LOGIC TABLE				
E1	E2	E3	E4	CONNECTOR
0	0	0	0	J1 ON
0	0	0	1	J2 ON
0	0	1	0	J3 ON
0	0	1	1	J4 ON
0	1	0	0	J5 ON
0	1	0	1	J6 ON
0	1	1	0	J7 ON
0	1	1	1	J8 ON
1	0	0	0	J9 ON
1	0	0	1	J10 ON
1	0	1	0	J11 ON
1	0	1	1	J12 ON
1	1	0	0	J13 ON
1	1	0	1	J14 ON
1	1	1	0	J15 ON
1	1	1	1	J16 ON

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 COND. A
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. B
- VIBRATION: MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	08/27/2026	



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01 ±		APPROVALS		DATE		PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
		DRAWN A. SABADOS		08/27/2026		TITLE PRODUCT FEATURE P16T-250M18G-80-T-515-SFF-DEC-1W-DB			
		REDRAWN				SIZE B			
		ISSUED				FSCM NO. 05XQ0		DWG NO. PRELIMINARY	
						SCALE 1:2		SHEET 1 OF 1	