

## DESCRIPTION

PMI MODEL PMSN-4DT-05-STD-OPT80M1G-TB1284 IS AN ABSORPTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.08 GHz TO 1.0GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

## SPECIFICATIONS

- FREQUENCY RANGE:..... 0.08 TO 1.0 GHz
- ISOLATION:..... 60 dB MIN
- INSERTION LOSS: .....1.2 dB MAX
- VSWR IN / OUT: .....1.8 : 1 MAX
- INPUT POWER:.....+20 dBm CW MAX
- SURVIVAL POWER: .....1W CW OR 10W PEAK 1USEC PW
- RF SWITCHING SPEED: .....RISE: 15ns MAX  
FALL: 15ns MAX  
DELAY ON: 100ns MAX  
DELAY OFF: 100ns MAX
- DC VOLTAGE:.....+5 VDC @ 200 mA MAX  
-5 VDC @ 100 mA MAX
- CONTROL SIGNAL:.....INDIVIDUAL CONTROL – TTL LOGIC  
"0" = ON & "1" = OFF
- CONNECTORS IN/OUT:.....SMA FEMALE
- DC & CONTROL CONNECTOR:.....9 PIN MICRO "D" MALE (MDM-9PSP OR EQUIVALENT)  
9 PIN MICRO "D" FEMALE MATING CONNECTOR  
(MDM-9SSP OR EQUIVALENT) TO BE SUPPLIED
- FINISH: ..... BLUE EPOXY PAINT

## 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 107

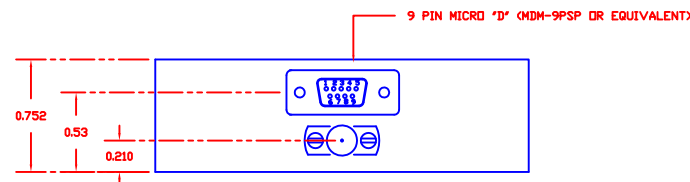
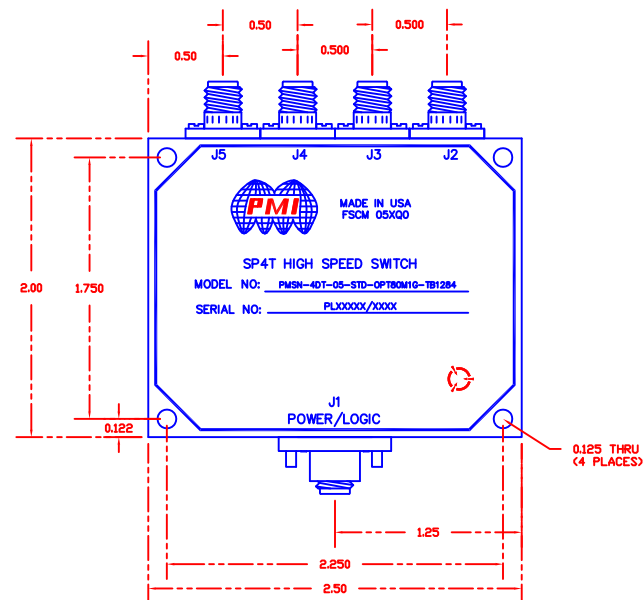
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

9-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	J2 CONTROL
2	J3 CONTROL
3	J4 CONTROL
4	J5 CONTROL
5	N/C
6	N/C
7	GND
8	+5V
9	-5V

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	10/29/11	

## 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](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>K. MASON</i>		10/29/11	PRODUCT FEATURE PMSN-4DT-05-STD-OPT80M1G-TB1284			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N: S	SHEET 1 OF 1		