

DESCRIPTION

PMI MODEL PDVAT-0518-60-8-96 IS A 0.5 TO 18 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18GHz
- INSERTION LOSS: 4.0 dB MAXIMUM
- ATTENUATION FLATNESS:
 - @ 10 dB = ± 0.9 dB
 - @ 20 dB = ± 1.5 dB
 - @ 40 dB = ± 3.0 dB
 - @ 60 dB = ± 5.0 dB
- ATTENUATION ACCURACY:
 - 0-30 dB = ± 1.0 dB
 - 30-50 dB = ± 1.3 dB
 - 50-60 dB = ± 1.5 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION:
 - ± 2.5 dB -10 to 85°C Typ
 - ± 3.5 dB -40 to 95°C Typ
- SWITCHING TIME: 1.5 micro sec MAXIMUM
- SMALL SIGNAL BANDWIDTH: 150 kHz Typ (6dB with ± 3 dB sinewave)
- LARGE SIGNAL BANDWIDTH: 75 kHz Typ (30dB with ± 30 dB sinewave)
- RETURN LOSS: -12 dB TYP -8.5 dB MAX
- POWER RATING: +20 dBm (see note 1)
- DIGITAL CONTROL: 8 BIT TTL
- ANALOG CONTROL option: 0.25 dB MINIMUM ATTENUATION STEP
- POWER SUPPLY: 0-6V ANALOG VOLTAGE, 10dB/VOLT
- CONNECTORS:
 - RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
 - POWER AND CONTROLS: 15 PIN MICRO-D FEMALE MATING CONNECTOR (MALE) FURNISHED
- SIZE: 2.00" x 1.80" x 0.50"

NOTE 1: REDUCED POWER PERFORMANCE AT LOW FREQUENCIES

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

X.XX ± 0.020
X.XXX ± 0.010

ENVIRONMENTAL RATINGS

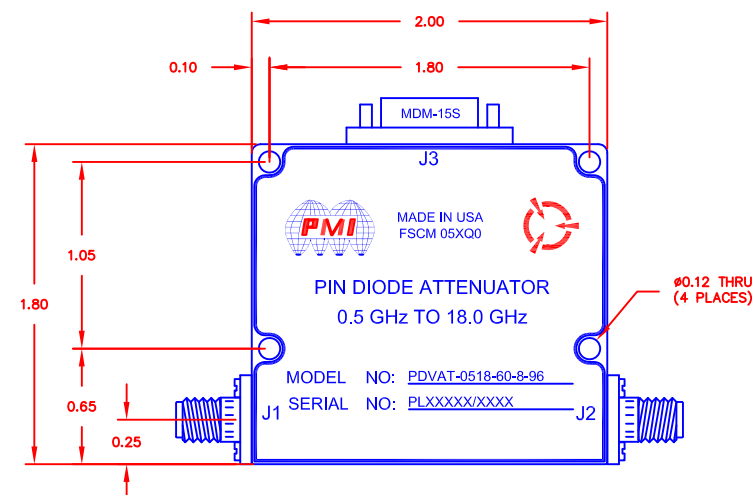
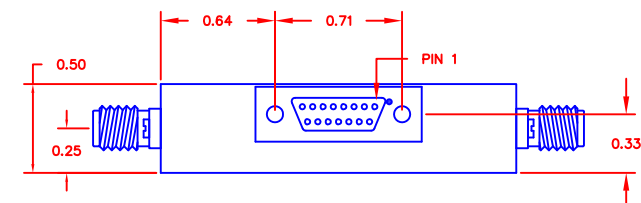
- TEMPERATURE: -40°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND.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

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

PIN NO:	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB
4	0.25dB (LSB)
5	GND
6	Not Used
7	Not Used
8	GND
9	Not Used
10	Not Used
11	+VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	12/5/13	
	A1	ECN # 14-0123	7/28/14	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.	
DRAWN		12/5/13	PRODUCT FEATURE			A1	
CHECKED			PDVAT-0518-60-8-96				
ISSUED							
SCALE		N:S	SIZE		FSCM NO.	OWG NO.	
			A		05XQ0	27021711	
							SHEET 1 OF 1