

**DESCRIPTION:**

PMI MODEL NUMBER PDVAN-5010-60-8 IS AN 8 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 DB OVER THE FREQUENCY RANGE OF 5.0 GHz TO 10.0 GHz.

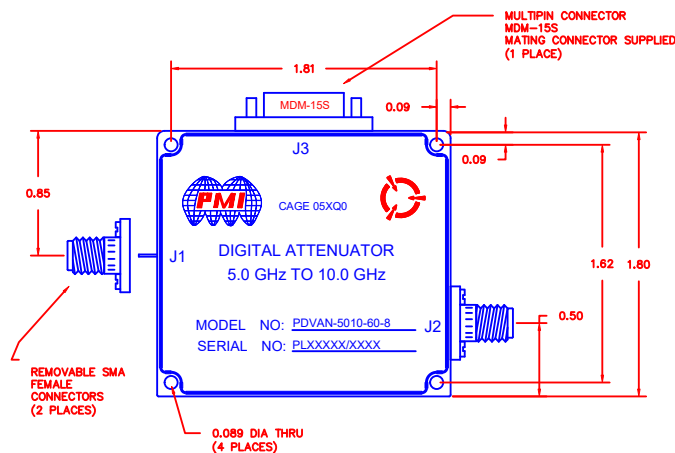
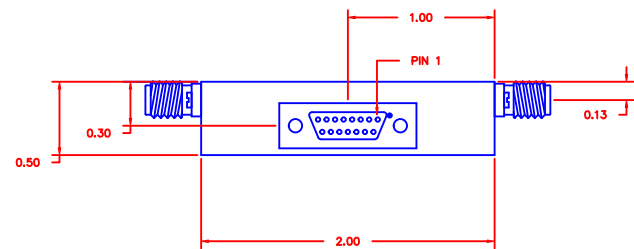
**SPECIFICATIONS:**

- FREQUENCY: \_\_\_\_\_ 5.0 GHz TO 10.0 GHz
- MEAN ATTENUATION RANGE: \_\_\_\_\_ 60 dB
- INSERTION LOSS: \_\_\_\_\_ 2.7 dB MAX
- VSWR: \_\_\_\_\_ 2.0:1 MAX
- POWER RATING: \_\_\_\_\_ +20dBm (Operating)  
\_\_\_\_\_ +30dBm (Survival)
- ATTENUATION FLATNESS:
  - @ 10dB \_\_\_\_\_ ±0.60 dB
  - @ 20dB \_\_\_\_\_ ±0.90 dB
  - @ 40dB \_\_\_\_\_ ±1.5 dB
  - @ 60dB \_\_\_\_\_ ±1.6 dB
- SWITCHING TIME: \_\_\_\_\_ 500 nsec MAX
- DIGITAL CONTROL: \_\_\_\_\_ 8 BIT Positive True, Binary TTL
- MONOTONICITY: \_\_\_\_\_ GUARANTEED
- POWER SUPPLY: \_\_\_\_\_ +12V to +15V @ 150mA MAX  
\_\_\_\_\_ -12V to -15V @ 75mA MAX
- PWR/CTL CONNECTORS: \_\_\_\_\_ 15 PIN Micro-D-Female (MATING CONNECTOR SUPPLIED)
- RF CONNECTORS: \_\_\_\_\_ SMA - Female
- FINISH: \_\_\_\_\_ GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750,  
TYPE I OVER EPOXY POLIMIDE PRIMER  
IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- SIZE: \_\_\_\_\_ (L) 2.00" X (W) 1.80" X(H) 0.50"

PIN NO:	J3 PIN FUNCTIONS
1	N/C
2	N/C or Latching Strobe Input *
3	N/C
4	GND
5	0.25dB (LSB)
6	0.5dB
7	1.0dB
8	2.0dB
9	4.0dB
10	8.0dB
11	16.0dB
12	32dB (MSB)
13	+VDC
14	-VDC
15	N/C

\* OPTIONAL

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/12/14	
	A2	ECN # 22-0067	07/12/22	



PMI CONFIDENTIAL AND PROPRIETARY

**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

- LOGIC INPUT  
LOGIC "0" (BIT OFF) ..... -0.3 to +0.8V  
LOGIC "1" (BIT ON) ..... +2.0 to +5.0V

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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN VR		11/12/14	PRODUCT FEATURE PDVAN-5010-60-8		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27023765
ISSUED			SCALE N:S		REV. A2
					SHEET 1 OF 1

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION