

**DESCRIPTION:**

PMI MODEL NUMBER PDVAN-8018-60-8 IS AN 8 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 DB OVER THE FREQUENCY RANGE OF 8.0 GHZ TO 18.0 GHZ.

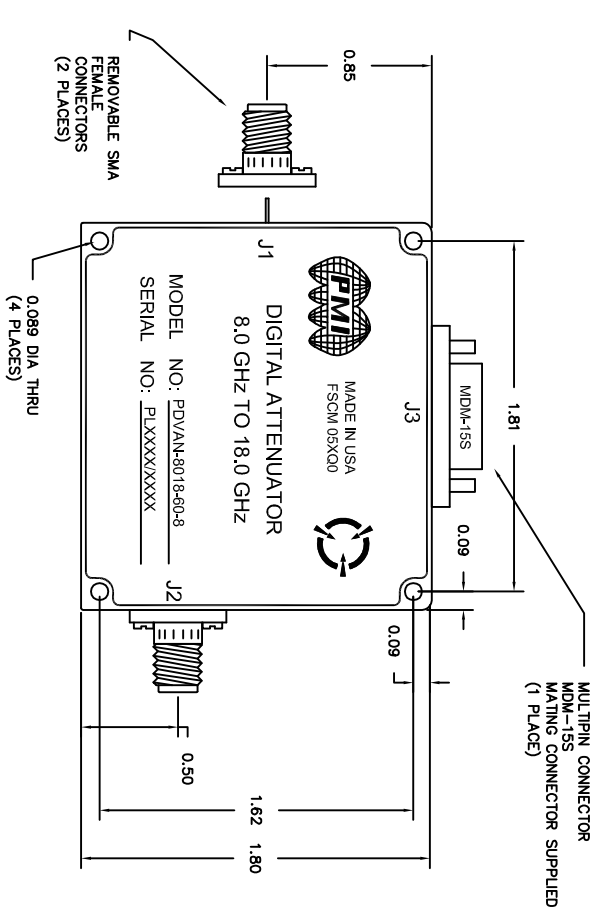
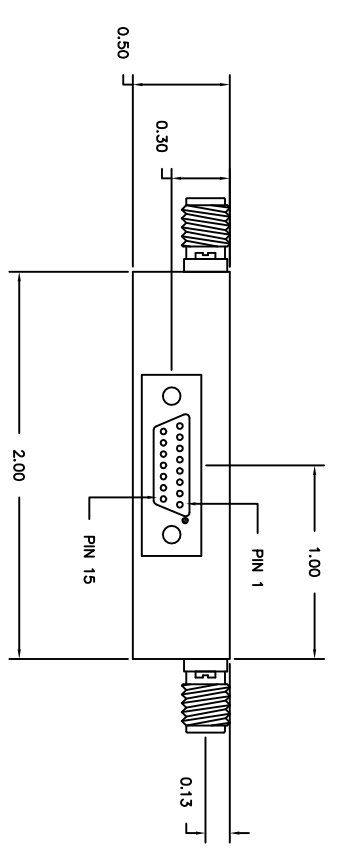
| REVISIONS |      |                  |         |          |
|-----------|------|------------------|---------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE    | APPROVED |
|           | A    | ORIGINAL RELEASE | 11/3/11 |          |

**SPECIFICATIONS:**

- FREQUENCY: . . . . . 8.0 GHZ TO 18.0 GHZ
- MEAN ATTENUATION RANGE . . . . . 60dB
- INSERTION LOSS . . . . . 3.7 DB MAX
- VSWR: . . . . . 2.0:1 MAX
- POWER RATING: . . . . . +20dBm (Operating)  
+30dBm (Survival)
- ATTENUATION FLATNESS:
  - @ 10 dB . . . . . ±0.80 dB
  - @ 20dB . . . . . ±1.1 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 . . . . . PAINTED GRAY
- 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



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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

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ISO 9001:2008 CERTIFIED

|            |         |                                    |
|------------|---------|------------------------------------|
| APPROVALS  | DATE    | TITLE                              |
| <i>JCL</i> | 11/9/11 | PRODUCT FEATURE<br>PDVAN-8018-60-8 |
| DRAWN      |         | SIZE FSCM NO. DWG NO. REV.         |
| CHECKED    |         | A 05XQ0 270XXXXX -                 |
| ISSUED     |         | SCALE N:S SHEET 1 OF 1             |