

**DESCRIPTION:**

PMI MODEL NUMBER PVVAN-1020-60-MP IS AN ANALOG CONTROLLED 60 DB PIN DIODE ATTENUATOR OPERATING OVER THE FREQUENCY RANGE OF 1.0 GHz TO 2.0 GHz.

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

## SPECIFICATIONS:

- **FREQUENCY:** . . . . . 1.0 GHz TO 2.0 GHz
- **MEAN ATTENUATION RANGE** . . . . . 60dB
- **INSERTION LOSS** . . . . . 2.0 dB MAX
- **VSWR:** . . . . . 2.0:1 MAX
- **POWER RATING:** . . . . . +20dBm (Operating)  
+30dBm (Survival)

- ATTENUATION FLATNESS:

- |           |           |          |
|-----------|-----------|----------|
| • @ 10 dB | . . . . . | ±0.45 dB |
| • @ 20dB  | . . . . . | ±0.8 dB  |
| • @ 40dB  | . . . . . | ±1.5 dB  |
| • @ 60dB  | . . . . . | ±1.6 dB  |

- SWITCHING TIME . . . . . 500 nsec MAX
- CONTROL . . . . . 10dB/Volt Analog Controlled
- POWER SUPPLY . . . . . +12V to +15V @ 125mA MAX  
-12V to -15V @ 50mA MAX

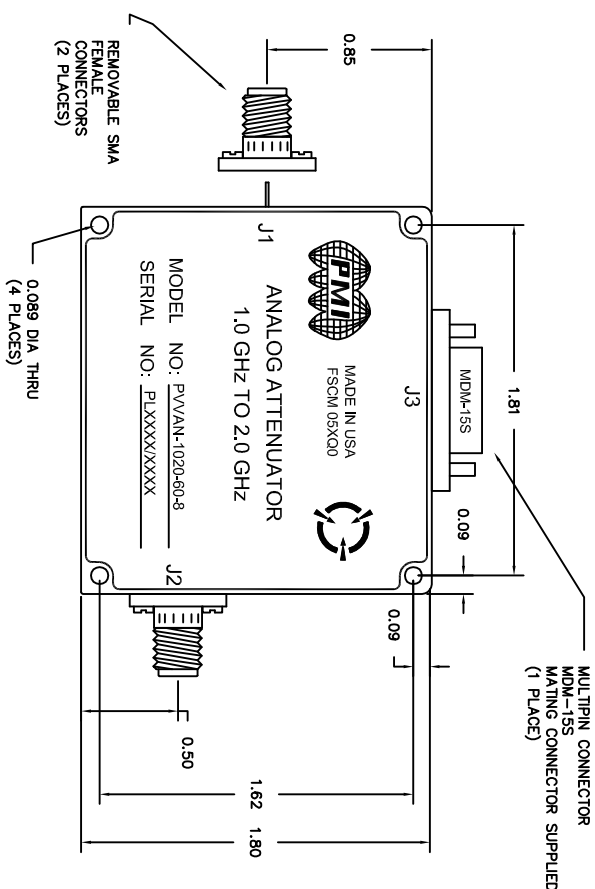
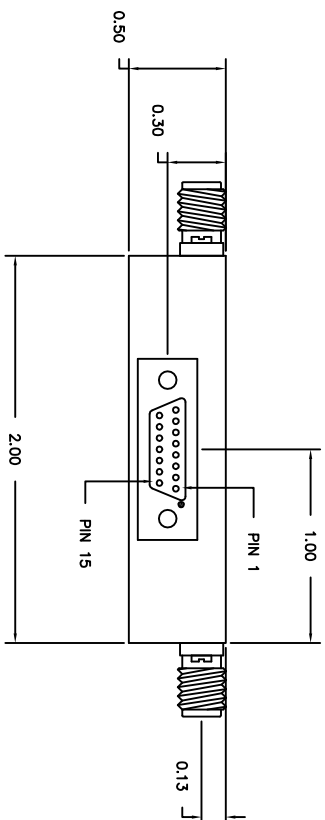
- |                      |                                                   |
|----------------------|---------------------------------------------------|
| ● PWR/CTL CONNECTORS | 15 PIN Micro-D-Female (MATING CONNECTOR SUPPLIED) |
| ● RF CONNECTORS      | SMA - Female                                      |
| ● FINISH             | PAINTED GRAY                                      |
| ● SIZE               | (L) 2.00" X (W) 1.80" X(H) 0.50"                  |

## 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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

| PIN NO.: | J3 PIN FUNCTIONS |
|----------|------------------|
| 1        | N/C              |
| 2        | N/C              |
| 3        | ANALOG INPUT     |
| 4        | GND              |
| 5        | N/C              |
| 6        | N/C              |
| 7        | N/C              |
| 8        | N/C              |
| 9        | N/C              |
| 10       | N/C              |
| 11       | N/C              |
| 12       | N/C              |
| 13       | +12 or +15VDC    |
| 14       | -12 or -15VDC    |
| 15       | N/C              |



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|                    |         |                 |          |         |        |
|--------------------|---------|-----------------|----------|---------|--------|
|                    |         | TITLE           |          |         |        |
| APPROVALS          | DATE    | PRODUCT FEATURE |          |         |        |
| DRAWN<br><i>RM</i> | 11/3/11 | PVAN-1020-60-MP |          |         |        |
| CHECKED            |         | SIZE            | FSCM NO. | DWG NO. | REV.   |
| ISSUED             |         | A               | 05XQ0    | 270XXXX | -      |
|                    |         | SCALE           | N:S      | SHEET   | 1 OF 1 |