

DESCRIPTION:

PMI MODEL NUMBER PDVAN-5010-60-8-OPT8890 IS AN 8 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 DB OVER THE FREQUENCY RANGE OF 8900 MHz $\pm$ 100 MHz.

SPECIFICATIONS:

- FREQUENCY: 8900 MHz $\pm$ 100 MHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS: 1.5 dB MAX
- VSWR: 1.75:1 MAX
- POWER RATING: +20dBm (Operating)
+30dBm (Survival)

ATTENUATION FLATNESS:

- @ 10dB $\pm$ 0.40 dB
- @ 20dB $\pm$ 0.70 dB
- @ 40dB $\pm$ 0.8 dB
- @ 60dB $\pm$ 1.0 dB

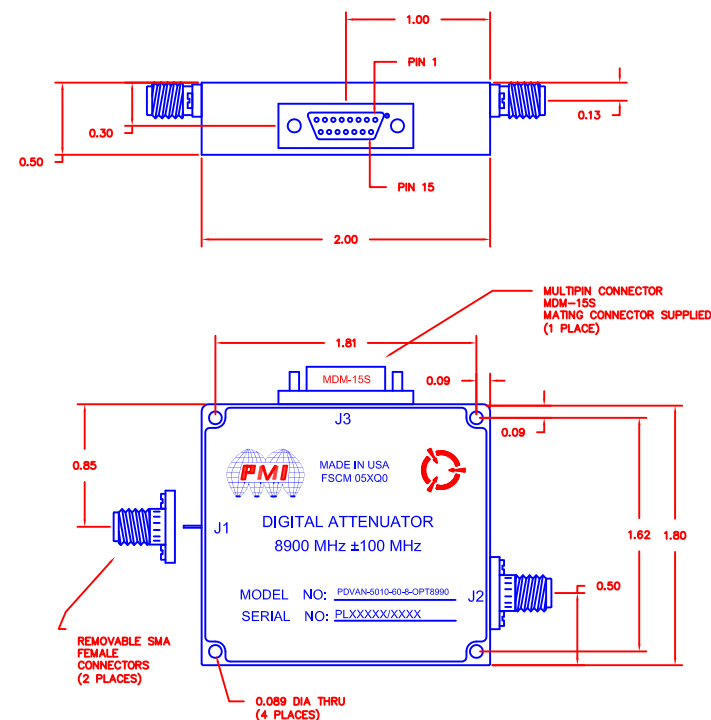
- SWITCHING TIME: 500 nsec MAX
- DIGITAL CONTROL: 8 BIT Positive True, Binary TTL
- MONOTONICITY: GUARANTEED
- POWER SUPPLY: +12V to +15V @ 150mA MAX
-12V to -15V @ 75mA MAX

- 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
	—	PRELIMINARY	03/23/16



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 $\pm$ 0.020
X.XXX $\pm$ 0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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APPROVALS		DATE		TITLE	
DRAWN		3/23/16		PRODUCT FEATURE	
CHECKED				PDVAN-5010-60-8-OPT8890	
ISSUED				PRELIMINARY	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		REV.	
SCALE		N:S		SHEET	
				1 OF 1	