

DESCRIPTION

PMI MODEL: PDVAN-4080-60-8 IS AN 8-BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 dB OVER THE FREQUENCY RANGE OF 4.0 GHz TO 8.0 GHz.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 4.0 TO 8.0 GHz
- MEAN ATTENUATION RANGE: --- 60 dB
- INSERTION LOSS: ----- 2.5 dB MAXIMUM
- VSWR: ----- 2.0:1 MAXIMUM
- POWER RATING: ----- +20 dBm CW MINIMUM (OPERATING)
+30 dBm CW MAXIMUM (SURVIVAL)
- ATTENUATION FLATNESS: ----- ±0.5 dB @ 10 dB ATTENUATION
±0.87 dB @ 20 dB ATTENUATION
±1.5 dB @ 40 dB ATTENUATION
±1.6 dB @ 60 dB ATTENUATION
- SWITCHING TIME: ----- 500 ns MAXIMUM
- DIGITAL CONTROL: ----- 8 BIT BINARY TTL
- INPUT TRACKING: ----- MONOTONIC
- POWER SUPPLY: ----- +12 V TO +15 V @ 150 mA MAXIMUM
-12 V TO -15 V @ 75 mA MAXIMUM
- CONNECTORS: ----- RF: FIELD REPLACEABLE SMA FEMALE
VDC/CTL: 15 PIN MICRO-D FEMALE
- SIZE: ----- 2.00" x 1.80" x 0.50"
- FINISH: ----- PAINTED BLUE

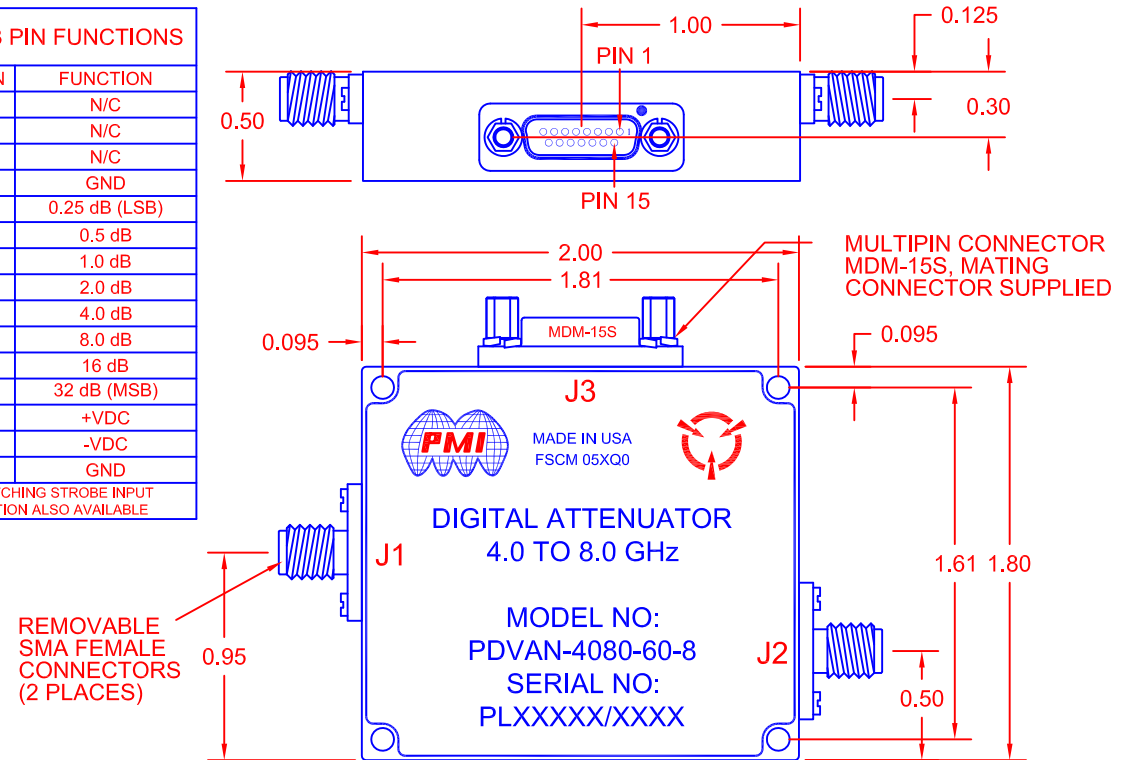
J3 PIN FUNCTIONS

PIN	FUNCTION
1	N/C
2	N/C
3	N/C
4	GND
5	0.25 dB (LSB)
6	0.5 dB
7	1.0 dB
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16 dB
12	32 dB (MSB)
13	+VDC
14	-VDC
15	GND

*LATCHING STROBE INPUT
OPTION ALSO AVAILABLE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	05/09/18	

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

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

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

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>fk</i>		03/19/13	PRODUCT FEATURE PDVAN-4080-60-8 4.0 to 8.0 GHz Digital Attenuator			
CHECKED <i>M. Berry</i>		05/09/18	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27034940	A1
			SCALE	N:S	SHEET	1 OF 1