

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	OUTLINE DRAWING	2/17/12
			JKL

DESCRIPTION

PMI MODEL PDVAT-0518-60-8-93 IS A 0.5 TO 18 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

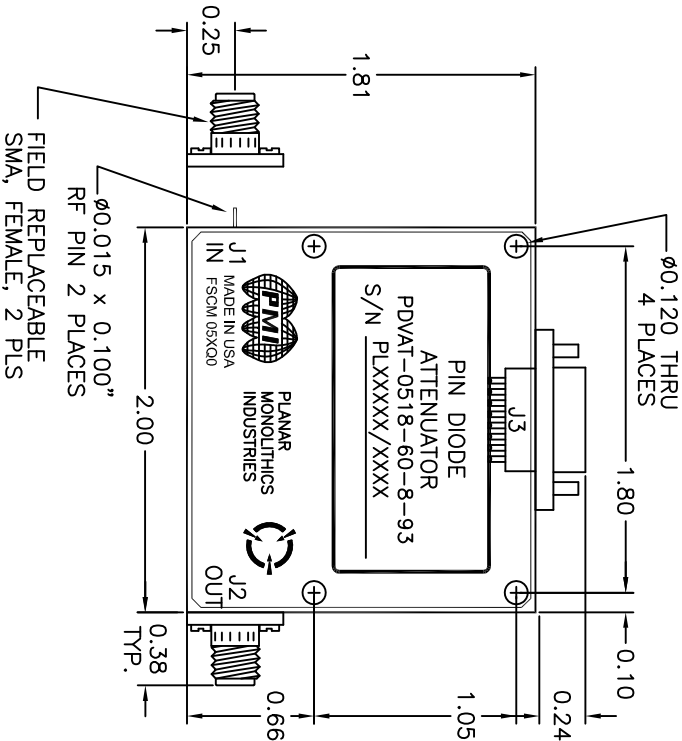
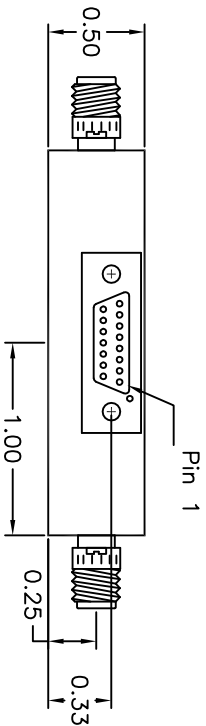
SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18 GHz
- INSERTION LOSS: 4.0 dB MAXIMUM
- ATTENUATION FLATNESS: @ 10 dB = ± 0.9 dB
@ 20 dB = ± 1.5 dB
@ 40 dB = ± 3.0 dB
@ 60 dB = ± 5.0 dB
- ATTENUATION ACCURACY: 0-30 dB = ± 1.0 dB
30-50 dB = ± 1.3 dB
50-60 dB = ± 1.5 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION: ± 2.5dB -10 to 85°C Typ
± 3.5dB -40 to 95°C Typ
- SWITCHING TIME: 5 micro sec MAXIMUM
- SMALL SIGNAL BANDWIDTH: 100 kHz Typ (6dB with ±3 dB sinewave)
- LARGE SIGNAL BANDWIDTH: 50 kHz Typ (30dB with ±30 dB sinewave)
- RETURN LOSS: -12 dB TYP -8.5 dB MAX
- POWER RATING: +20 dBm (see note 1)
- DIGITAL CONTROL: 8 BIT TTL
- ANALOG CONTROL option: 0.25 dB MINIMUM ATTENUATION STEP
- POWER SUPPLY: 0-6V ANALOG VOLTAGE, 10dB/VOLT
+12V TO +15V @ 150 mA MAXIMUM
- CONNECTORS
- RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
- POWER AND CONTROLS: 15 PIN MICRO-D FEMALE
- SIZE: MATING CONNECTOR (MALE) FURNISHED
2.00" x 1.81" x 0.50"

NOTE 1. Reduced power performance at low frequencies.

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°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 107D COND. A



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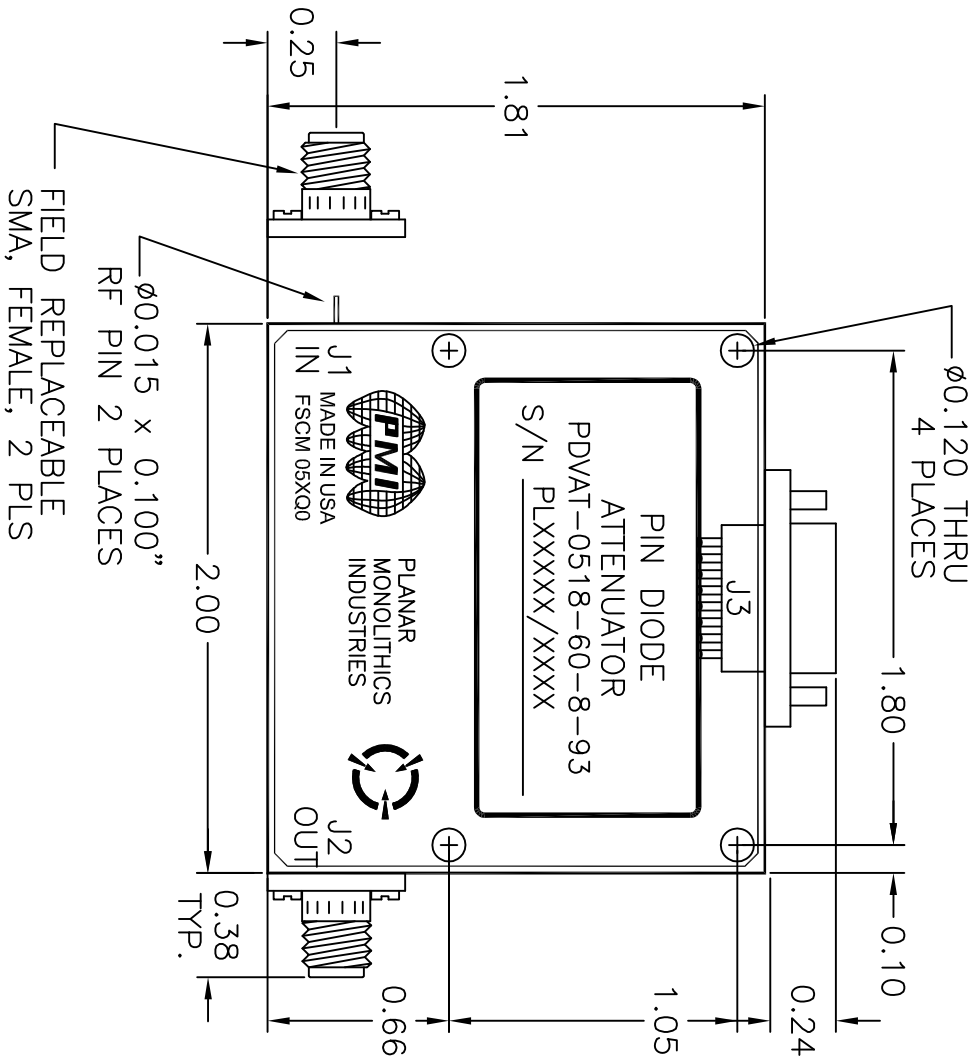
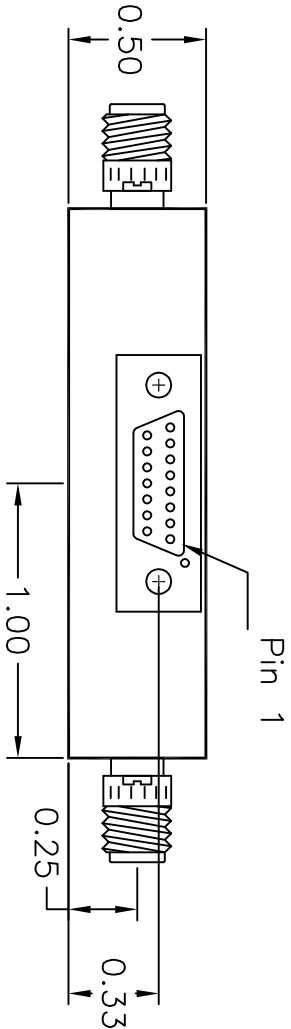
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APPROVALS		DATE		TITLE	
DRAWN		02/17/12		MECHANICAL OUTLINE	
ZIR				PDVAT-0518-60-8-93	
CHECKED				0.5 -18 GHz, VARIABLE ATTENUATOR	
ISSUED		A		PRELIM	
		SCALE N:S		SHEET 1 OF 2	

DESCRIPTION

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MECHANICAL OUTLINE



PIN NUMBERING	
PIN	FUNCTION
1	2dB
2	1dB
3	0.5dB
4	0.25dB (LSB)
5	GND
6	Not Used
7	Not Used
8	GND
9	Not Used
10	Not Used
11	+VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

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ZONE	REV.	DESCRIPTION	DATE
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			XL

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TITLE MECHANICAL OUTLINE

PDVAT-0518-60-8-93

0.5 -18 GHz, VARIABLE ATTENUATOR

APPROVALS		DATE		TITLE			
DRAWN	ZIR	02/17/12		0.5 -18 GHz, VARIABLE ATTENUATOR			
CHECKED				SIZE	FSCM NO.	DWG NO.	REV.
ISSUED				A	05XQ0	PRELIM	—
		SCALE	N:S	SHEET		2 OF 2	

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