

REVISIONS			
ZONE	REV.	DESCRIPTION	
	—	OUTLINE DRAWING	

DATE	APPROVED
2/17/12	XLL

DESCRIPTION

PMI MODEL PDVAT-0518-60-8-96 IS A 0.5 TO 18 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

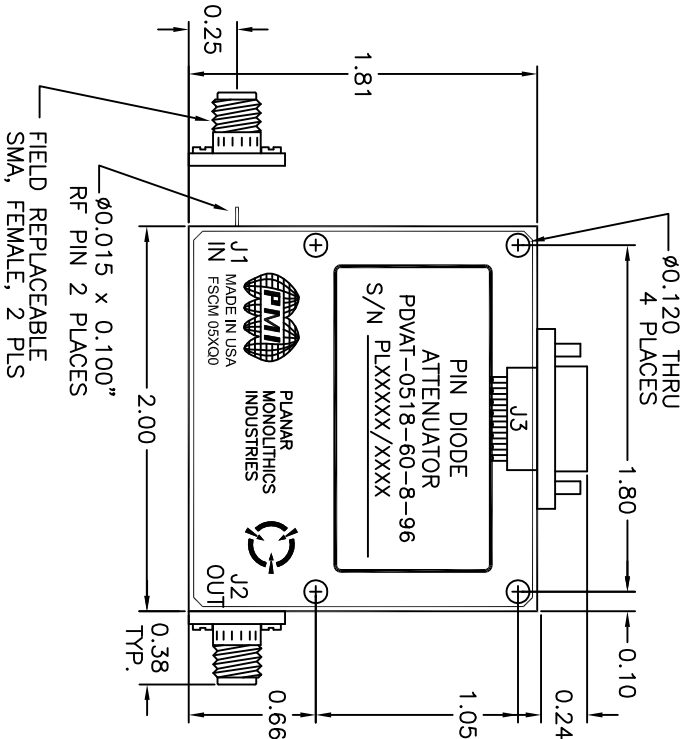
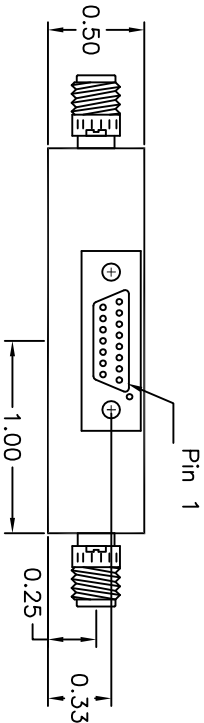
SPECIFICATIONS

- 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: 1.5 micro sec MAXIMUM
- SMALL SIGNAL BANDWIDTH: 150 kHz Typ (6dB with ±3 dB sinewave)
- LARGE SIGNAL BANDWIDTH: 75 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
- POWER SUPPLY: +12V TO +15V @ 150 mA MAXIMUM
- CONNECTORS
 - FIELD REPLACEABLE SMA (FEMALE)
- RF INPUT/OUTPUT: 15 PIN MICRO-D FEMALE
- POWER AND CONTROLS: MATING CONNECTOR (MALE) FURNISHED
- SIZE: 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



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2008 CERTIFIED



TITLE

MECHANICAL OUTLINE

PDVAT-0518-60-8-96

0.5 -18 GHz, VARIABLE ATTENUATOR

APPROVALS

DATE

DRAWN

02/17/12

CHECKED

SIZE

FSQM NO.

DWG NO.

REV.

ISSUED

A

05X00

PRELIM

—

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

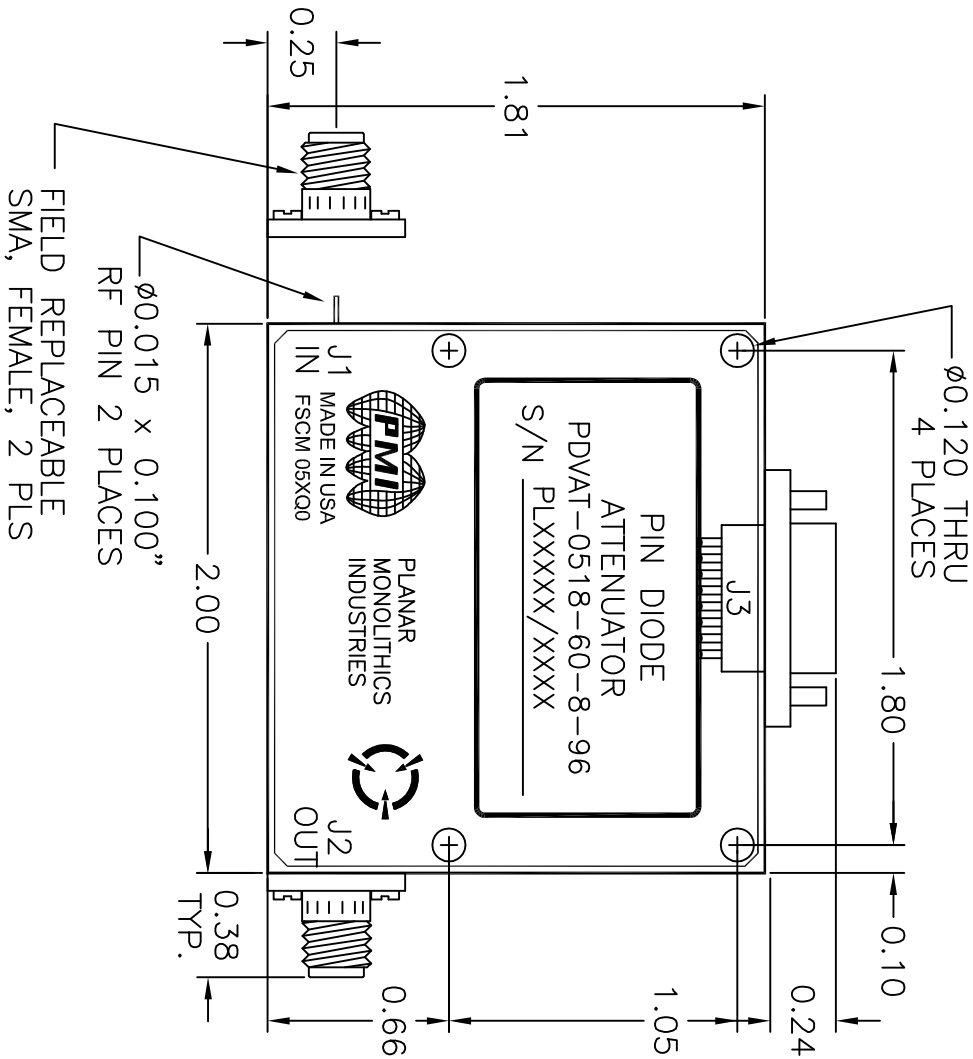
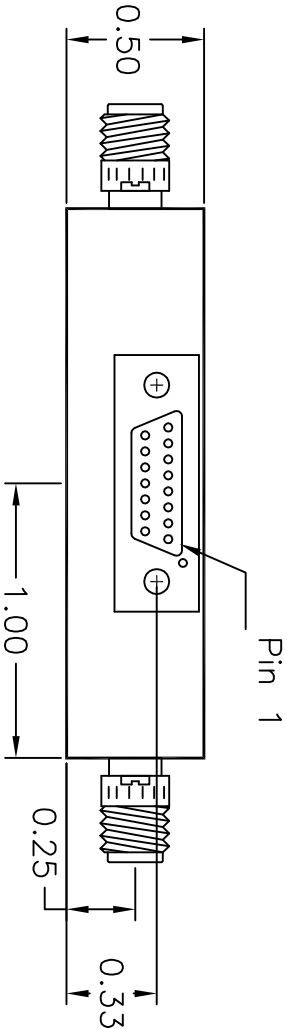
X.XX ±0.010

X.XXX ±0.005

DESCRIPTION

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MECHANICAL OUTLINE



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

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

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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DRAWN		02/17/12		MECHANICAL OUTLINE			
ZIR				PDVAT-0518-60-8-96			
CHECKED				0.5 -18 GHz, VARIABLE ATTENUATOR			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	PRELIM	—
				SCALE	N:S	SHEET	2 OF 2