

DESCRIPTION

PMI MODEL PDVAT-0518-60-8-93 IS A 0.5 TO 18.0 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 to 18.0 GHz
- INSERTION LOSS: 5.25dB 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:
 - ± 2.5 dB -10 to 85 deg C Typ
 - ± 3.5 dB -40 to 95 deg C Typ
- SWITCHING TIME: 5 μ s 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
- DIGITAL CONTROL: 8 BIT TTL
 - 0.25 dB MINIMUM ATTENUATION STEP
- ANALOG CONTROL option: 0-6V ANALOG VOLTAGE, 10dB/VOLT
- POWER SUPPLY: +12V TO +15V @ 150 mA MAXIMUM
- NEGATIVE SUPPLY IS OPTIONAL: 0 TO -15V @ 2 mA MAXIMUM (may be omitted)
- CONNECTORS:
 - RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
 - POWER AND CONTROLS: 15 PIN MICRO-D FEMALE MATING CONNECTOR (MALE) FURNISHED
- SIZE: 2.00" x 1.81" x 0.50"

ENVIRONMENTAL RATINGS

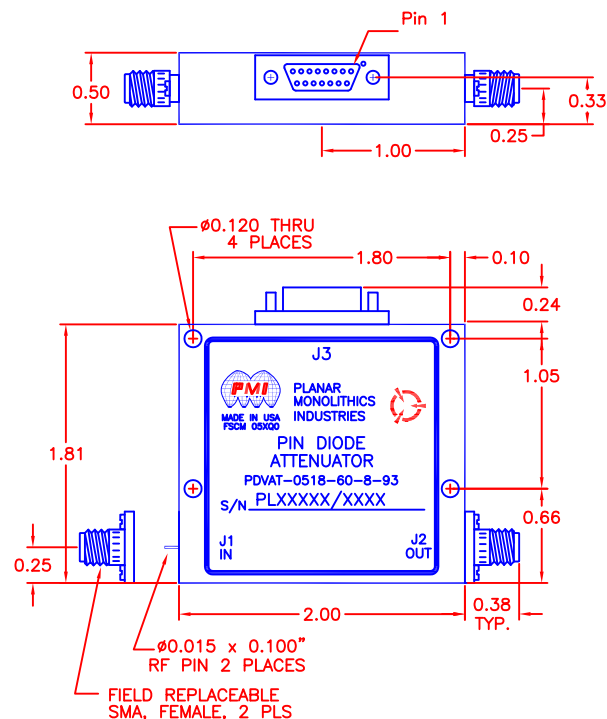
- TEMPERATURE: -40°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	PRELIMINARY	2/17/12

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

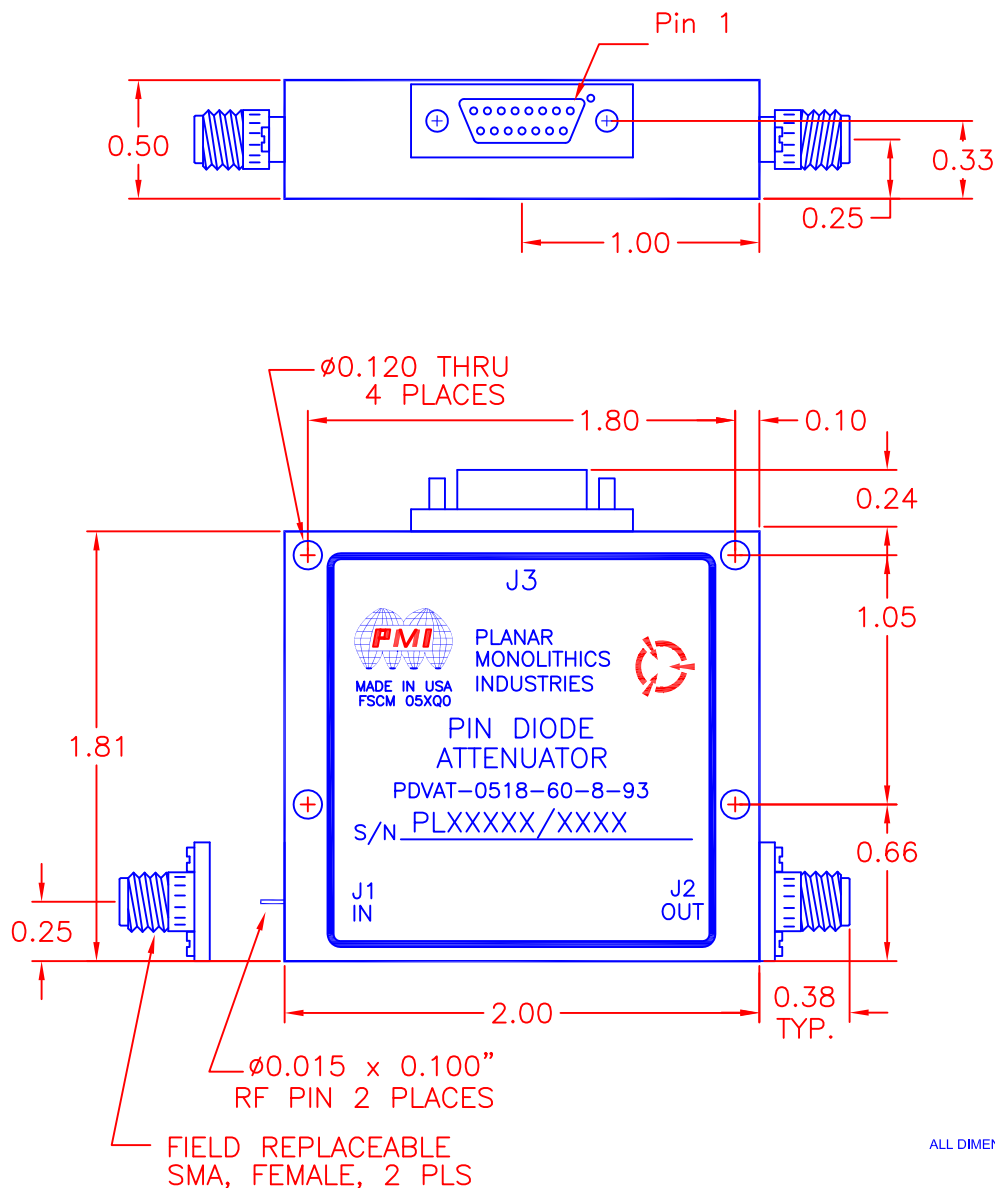


APPROVALS		DATE		TITLE		
DRAWN		2/17/12		PRODUCT FEATURE		
CHECKED				PDVAT-0518-60-8-93		
ISSUED						
SIZE		FSCM NO.		DWG NO.		REV.
A		05XQ0		PRELIM		-
SCALE		N:S		SHEET		1 OF 2

DESCRIPTION

PMI MODEL PDVAT-0518-60-8-93 IS A 0.5 To 18.0 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

MECHANICAL OUTLINE



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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	PRELIMINARY	2/17/18

8 BIT TRUE BINARY LOGIC		
J3 PIN FUNCTIONS		
PIN NO.	FUNCTIONS.	ATNT1 PIN
1	2.0 dB	CP105
2	1.0 dB	CP106
3	0.5 dB	CP107
4	0.25 dB	CP108
5	GND	CP303
6	ANALOG	CP109
7	LE	CP100
8	SPARE	CP110
9	NC	CP111
10	-V	CP301
11	+V	CP300
12	32.0 dB	CP101
13	16.0 dB	CP102
14	8.0 dB	CP103
15	4.0 dB	CP104

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	JJS	2/17/18	PRODUCT FEATURE		
CHECKED			PDVAT-0518-60-8-93		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	PRELIM
SCALE		N:S	SHEET		2 OF 2