

DESCRIPTION

PMI MODEL PDVAT-100M20G-30-8B IS A 0.1 TO 20 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL AND 30dB ATTENUATION RANGE WITH 0.25DB STEP SIZE.

SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 20GHz
- INSERTION LOSS: 4.0 dB MAXIMUM
- ATTENUATION FLATNESS:
 - @ 10 dB = ± 1.5 dB
 - @ 20 dB = ± 2.5 dB
 - @ 30 dB = ± 4.0 dB
- ATTENUATION ACCURACY: 0-30 dB = ± 1.0 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION:
 - ± 2.5 dB -10 to 85°C Typ
 - ± 3.5 dB -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
- CONNECTORS
 - RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
 - POWER AND CONTROLS: 15 PIN MICRO-D FEMALE
- SIZE: 2.00" x 1.80" x 0.50"
- FINISH: PAINTED BLUE

NOTE 1: REDUCED POWER PERFORMANCE AT LOW FREQUENCIES
+20dBm (1 to 20GHz)
+10dBm (0.1 to 1.0GHz)

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

X.XX ± 0.020
X.XXX ± 0.010

ENVIRONMENTAL RATINGS

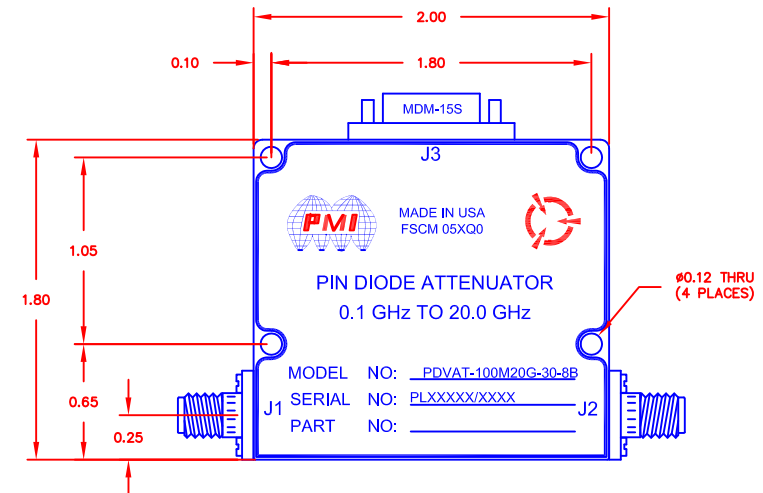
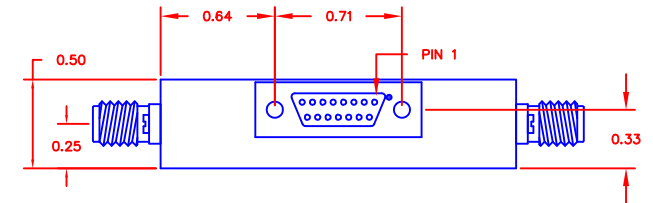
- TEMPERATURE: -40°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND.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

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

PIN NO:	J3 PIN FUNCTIONS
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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	-	PRELIMINARY	4/22/14

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		K.M.		4/22/14		PRODUCT FEATURE	
CHECKED						PDVAT-100M20G-30-8B	
ISSUED						PRELIMINARY	
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0				-	
SCALE		N:S				SHEET	
						1 OF 1	