

DESCRIPTION

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

SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 20 GHz
- INSERTION LOSS: 4.0 dB MAXIMUM
- ATTENUATION FLATNESS: ± 1.5 dB @ 10 dB
 ± 2.5 dB @ 20 dB
 ± 4.0 dB @ 30 dB
- ATTENUATION ACCURACY: ± 1.0 dB FROM 0 TO 30 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION: ± 2.5 dB FROM -10° TO 85°C TYPICAL
 ± 3.5 dB FROM -40° TO 95°C TYPICAL
- SWITCHING TIME: 1.5 μ s MAXIMUM
- SMALL SIGNAL BANDWIDTH: 150 kHz TYPICAL (6 dB WITH ± 3 dB SINEWAVE)
- LARGE SIGNAL BANDWIDTH: 75 kHz TYPICAL (30 dB WITH ± 30 dB SINEWAVE)
- RETURN LOSS: -12 dB TYPICAL
-8.5 dB MAXIMUM
- POWER RATING: +20 dBm*
- DIGITAL CONTROL: 8 BIT TTL, 0.25 dB MINIMUM ATTENUATION STEP
- ANALOG CONTROL (OPTION): 0 TO 6 V ANALOG VOLTAGE, 10 dB/VOLT
- POWER SUPPLY: +12 V TO +15 V @ 150 mA MAXIMUM
- 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: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

* REDUCED POWER PERFORMANCE AT LOW FREQUENCIES

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °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

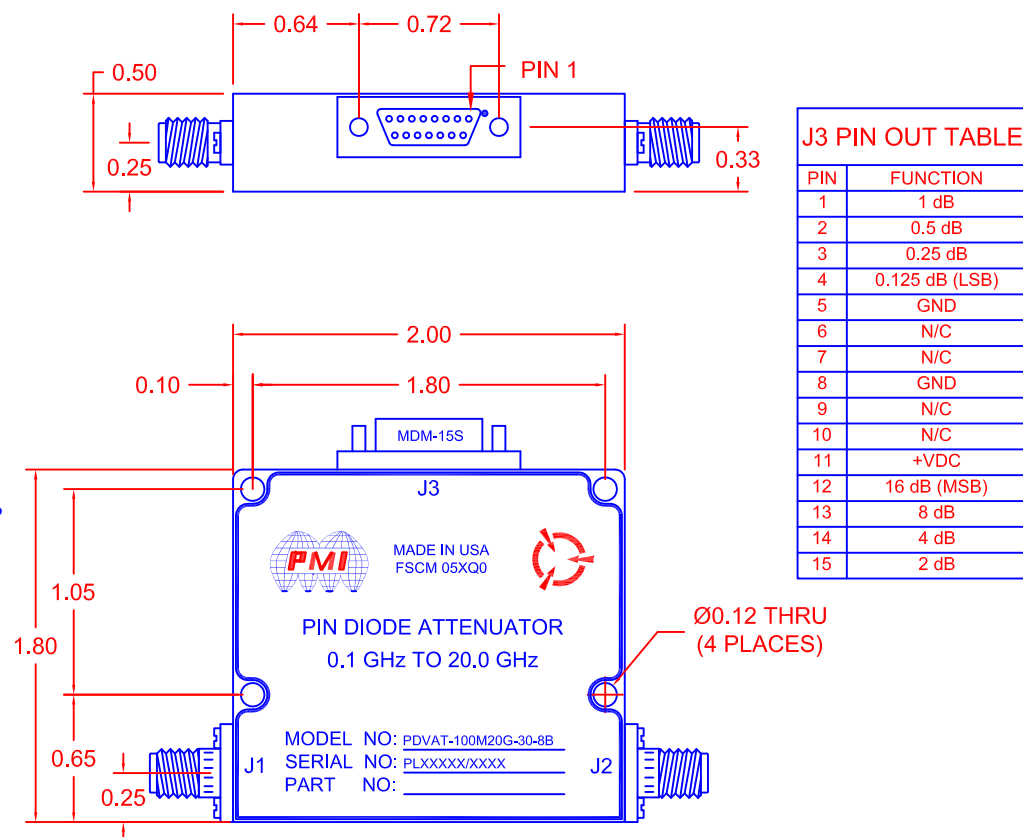
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/11/15	
	A1	ECN # 16-0188	12/06/16	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>M. Berry</i>		11/11/15		PRODUCT FEATURE	
CHECKED				PDVAT-100M20G-30-8B	
ISSUED					
SIZE	A	FSCM NO.	05XQ0	DWG NO.	27027802
SCALE	N:S			SHEET	1 OF 1
				REV.	A1