

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 μs 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 $+85^\circ\text{C}$ (OPERATING)
 -65°C TO $+125^\circ\text{C}$ (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

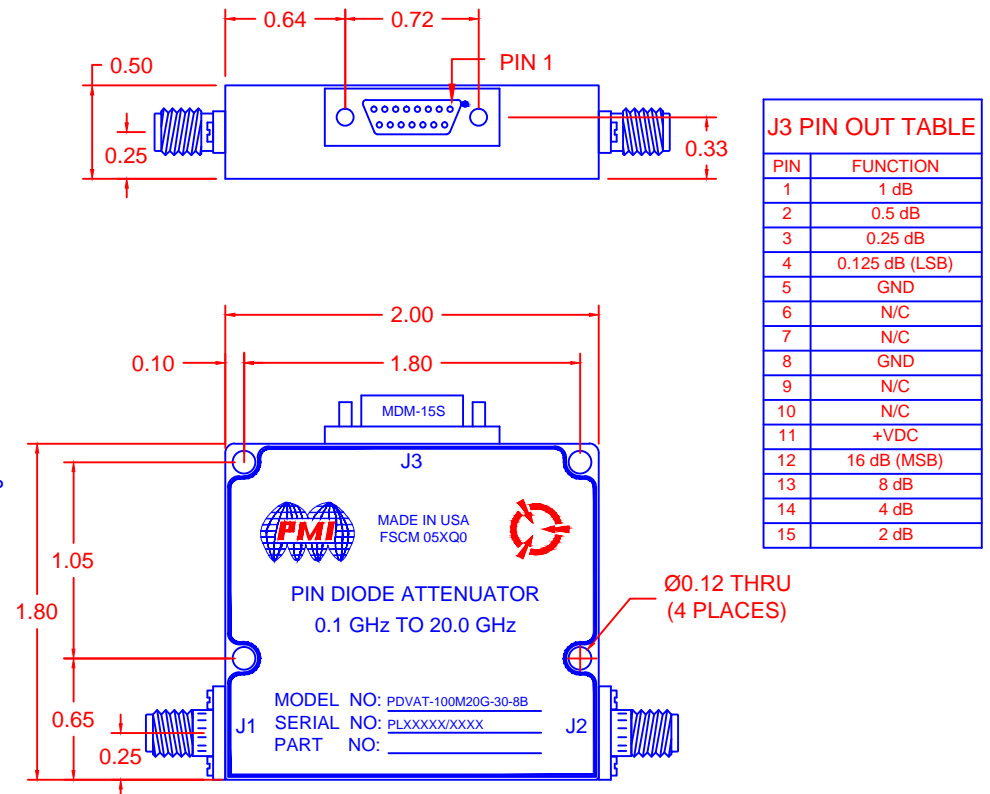
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/11/15	

MECHANICAL OUTLINE



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