

DESCRIPTION

PMI MODEL PDVAT-27G31R5G-50dB IS A NON-REFLECTIVE, LINEARIZED, VOLTAGE CONTROLLED PIN DIODE ATTENUATOR. THIS MODEL OPERATES OVER THE 27 GHz TO 31.5 GHz FREQUENCY RANGE, AND PROVIDES UP TO 50 dB OF ATTENUATION WITH A CONTROL VOLTAGE RANGE OF 0 TO 5 VOLTS (10 dB/VOLT NOMINAL). THIS ATTENUATOR IS SUPPLIED IN A SMALL HOUSING MEASURING ONLY (L) 1.25" X (W) 1.25" X(H) 0.50".

SPECIFICATIONS

- FREQUENCY: ----- 27.0 TO 31.5 GHz
- DYNAMIC RANGE: ----- 50 dB MIN
- INSERTION LOSS: ----- 4 dB MAX
- VSWR: ----- 2.2:1 MAX
- ACCURACY OF ATTENUATION:
 - 0 TO 30 dB: ----- ± 0.5 dB
 - 30 TO 50 dB: ----- ± 1.0 dB
- TEMPERATURE COEFFICIENT: ----- ± 0.025 dB/ $^{\circ}$ C
- CONTROL VOLTAGE CHARACTERISTICS:
 - OPERATING: ----- 0 TO 5 VOLTS NOM
 - TRANSFER FUNCTION: ----- 10 dB / VOLT NOM
 - INPUT IMPEDANCE: ----- 10 K Ω NOM
- SWITCHING CHARACTERISTICS:
 - ON TIME: ----- 1.0 μ s
 - OFF TIME: ----- 0.5 μ s
- VOLTAGE: ----- +12V $\pm 5\%$, 120 mA
- 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
- SIZE: ----- (L) 1.25" X (W) 1.25" X(H) 0.50"

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
----- -65 $^{\circ}$ C TO +125 $^{\circ}$ 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

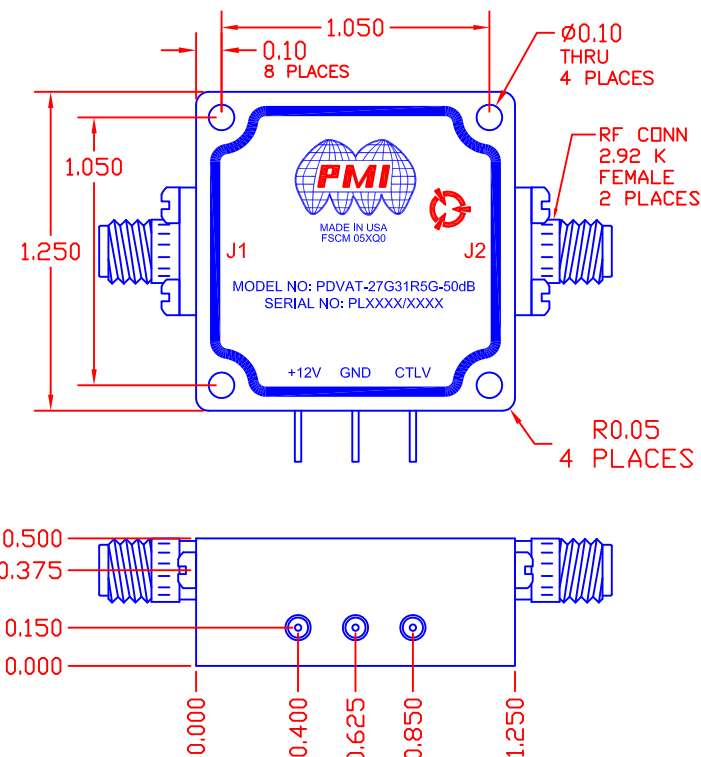
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	06/02/15	PJK

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN PJK		06/02/15		PRODUCT FEATURE VOLTAGE CONTROLLED ATTENUATOR PDVAT-27G31R5G-50dB	
CHECKED				SIZE A	REV. 1
ISSUED				FSCM NO. 05XQ0	DWG NO. 270XXXXX
				SCALE N:S	SHEET 1 OF 1