

DESCRIPTION

PMI MODEL SDLVA-218-44-70MV-1-OPT1G18G IS A 44 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE BETWEEN THE 1.0 TO 18.0 GHz FREQUENCY RANGE. IT EMPLOYS PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. IT IS OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY.

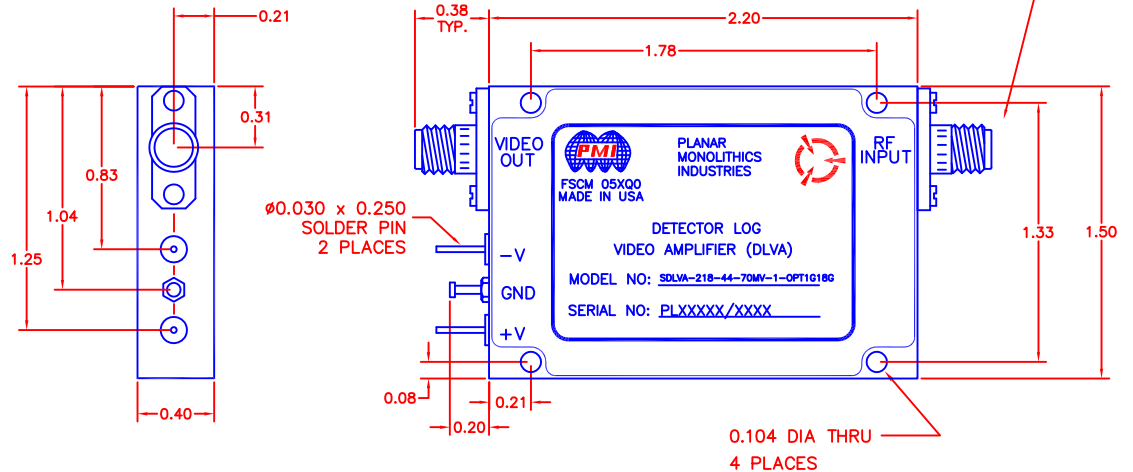
SPECIFICATIONS

- FREQUENCY RANGE: 1.0 TO 18.0 GHz
- TSS: -42 dBm MAXIMUM
- DYNAMIC RANGE: -40 TO +4 dBm MINIMUM
- FLATNESS: ± 1.5 dB MAXIMUM
- LOG LINEARITY AT 25°C: ± 0.75 dB MAXIMUM (-40 TO 0 dBm)
- LOG SLOPE: 70 ± 3 mV/dB MAXIMUM
- DC OFFSET AT RF TERMINATED: ± 70 Mv MAXIMUM
- RISE TIME: 25 ns MAXIMUM
- RECOVERY TIME: 500 ns MAXIMUM
- NOISE AT RF TERMINATED: 150 mV (VP-P MAXIMUM)
- FALL TIME: 300 ns MAXIMUM
- OUTPUT LOAD IMPEDENCE: 50 Ω
- PULSE WIDTH RANGE: 50 ns~CW MINIMUM
- MAX INPUT POWER: +20 dBm
- MODE: DC COUPLED
- DC POWER (NO LOAD)
 - +V: 15V @ 200 mA MAXIMUM
 - V: 15V @ 150 mA MAXIMUM
- SIZE: 2.20" x 1.50" x 0.40"
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS

- **TEMPERATURE:** 0°C TO + 50°C (OPERATING)
..... -65°C TO +100°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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



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 <i>JGS</i>		8/14/19	PRODUCT FEATURE SDLVA-218-44-70MV-1-OPT1G18G			
REDRAWN <i>EMF</i>		9/11/17	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
SCALE N:S			SHEET 1 OF 1			

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