

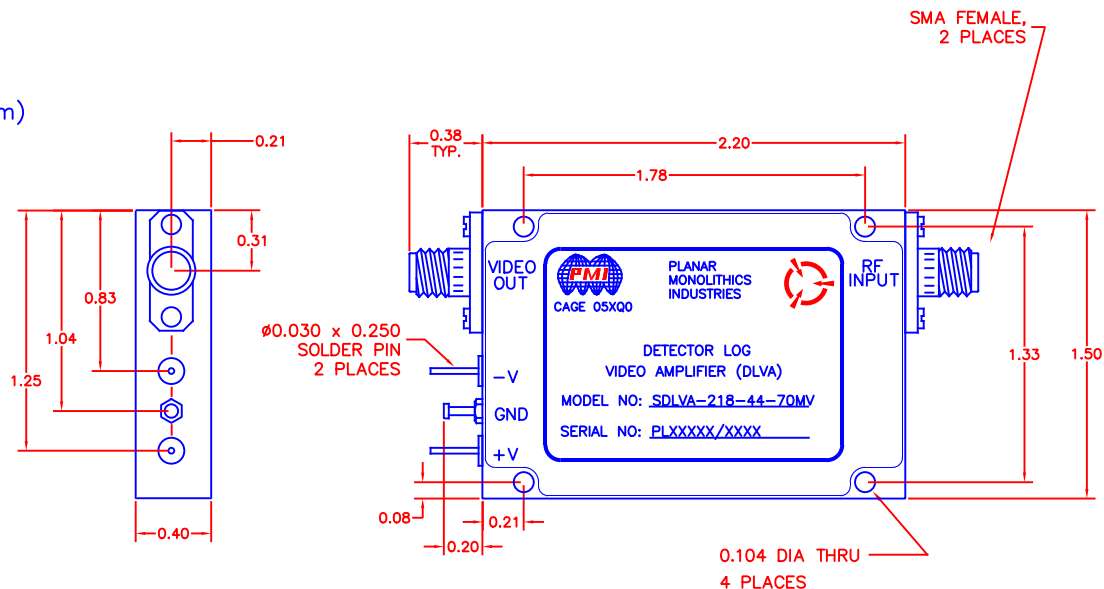
DESCRIPTION

PMI MODEL SDLVA-218-44-70MV IS A 44 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE BETWEEN THE 2GHz TO 18GHz 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.

| REVISIONS | | | | |
|-----------|------|------------------|---------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | 1 | ORIGINAL RELEASE | 8/14/13 | |
| | A1 | ECN # 16-0137 | 9/28/16 | |

SPECIFICATIONS

- FREQUENCY RANGE:2GHz TO 18GHz
- 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



PMI CONFIDENTIAL AND PROPRIETARY

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

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

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ISO 9001 CERTIFIED



| APPROVALS | | DATE | TITLE | | | |
|-----------|--|---------|--------------------------------------|-------------------|---------------------|------------|
| DRAWN JGS | | 8/14/13 | PRODUCT FEATURE SDLVA-218-44-70MV | | | |
| MODIFIED | | | SIZE A | FSCM NO. 05XQ0 | DWG NO. 27019601 | REV. A1 |
| ISSUED | | | SCALE N:S | | SHEET 1 OF 1 | |