DESCRIPTION:

• OVERSHOOT ·

POWER SUPPLY: •

WEIGHT

GROUND

• 1 dB VIDEO COMPRESSION

RF / VIDEO CONNECTORS:

POWER CONNECTORS

PMI MODEL NUMBER SDLVA-2G6G-70-50MV IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 2 GHz TO 6 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

1.5 dB MAX

+5 dBm MIN

4 ounces MAX

+11.5V to +15.5V @ 550 mA MAX (+20V no damage)

-11.5V to -15.5V @ 250 mA MAX (-20V no damage)

Filter Feedthru (1000pf min), 0,030 min dia.

Solder Turret, 0.030 min shank dia.

SMA female per MIL-PRF-39012. Non-exposed captivation holes.

	REVISIONS						
ZONE	REV.	DESCRIPTION	DATE	APPROVED			
	_	PRELIMINARY					

ENVIRONMENTAL RATINGS: SPECIFICATIONS: • FREQUENCY: 2.0 GHz TO 6.0 GHz • TEMPERATURE: · · · · · · -10°C TO +75°C (OPERATING) -40°C TO +85°C (STORAGE) 8 dB MAX@ 25°C, 9dB MAX@ temp. • NOISE FIGURE 100% RELATIVE +30°C TO +55°C with condensation HUMIDITY: ... • INPUT DYNAMIC RANGE · · · · · · -65 TO +5 dBm MIN. MIL-STD-810F, Method 516.5 Procedure 1 (OPERATING) • RF OUTPUT POWER -10 dBm ±3 dB @ -65 dBm input 11 g PEAK, 20 ms HALF SINE • RF INPUT POWER MAX · · · · · +15 dBm MIL-STD-810F, Method 516.5 Procedure V (NON-OPERATING) 26 g PEAK, 20 ms HALF SINE • SMALL SIGNAL GAIN FLATNESS-Within +6 dB and -3 dB relative to average gain MIL-STD-810F, Method 514.5 Procedure 1, 2 Hrs in 3 axes VIBRATION, SINE: TSS: -70 dBm or better, variation less 0.2"(double amplitude) 0.1 - 1Hz, 2g from 1 - 50 Hz than ±3 dB over frequency 3.5 dB pk-pk MAX. VIBRATION, RANDOM: MIL-STD-810F, Method 514.5 10 min in 3 axes VIDEO FLATNESS OVER FREQUENCY: 0.02 g2 / Hz from 20 Hz to 2,000 Hz 3.5 dB pk-pk MAX. VIDEO POLARITY 50 mV/±2mV/dB (3.25V ±130mV • LOG SLOPE: · · · · · · · · · over the input range) • ALTITUDE: · · · · · · -3.000 FEET TO 30.000 FEET (OPERATING) < ±5 dB relative to 25°C -3,000 FEET TO 40,000 FEET (STORAGE) VIDEO RESPONSE OVER TEMP -65 to +5 dBm • SALT FOG: MIL-STD-202F, METHOD 107D COND. A • FUNGUS: NO FUNGUS NUTRIENT MATERIALS ±75mV From Best Fit Line • LOG LINEARITY: · · · · · · · · · · • ES SCREENING Non-operating thermal shock per MIL-STD 883, Method 1010, test condition • DC OFFSET · · · · · · · · · · +75mV Typical, 0 mV to +150mV MAX B (10 cycles, -55 to +125°C, 30 min dwells with combined pre/post seal DC power burn-in per MIL-STD-1015, test condition B 96 hrs @ 85°C 25 ns to CW • RISE TIME: • FALL TIME: 50 ns to within 1 dB of small signal gain up to 0 dBm RECOVERY TIME: SETTLING TIME 20 ns to within 1 dB of final value

VIDEO BANDWIDTH 30 MHz MIN PMI CONFIDENTIAL & PROPRIETARY 50 Ohms • VIDEO LOAD · · · · · · · ·

PLANAR MONOLITHICS INDUSTRIES, INC. 4921 ROBERT J. MATHEWS PKWY #1

EL DORADO HILLS, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 WEBSITE: www.pmi-rf.com E-MAIL: sales@pmi-rf.com ISO 9001:2008 CERTIFIED



TITLE APPROVALS DATE JM. 9-22-16

PRODUCT FEATURE SDLVA-2G6G-70-50MV

CHECKED SIZE FSCM NO. REV. PRELIMINARY 71A34 ISSUED SCALE N:S 1 OF SHEET

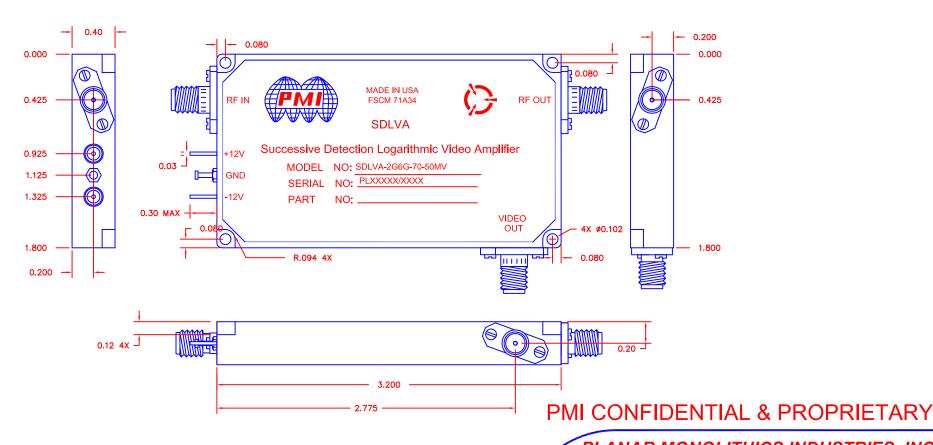
ALL DIMENSIONS ARE IN INCHES TOLERANCES: X.XX ±0.010 X.XXX ±0.005

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

DESCRIPTION:

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	REVISIONS						
ZONE	REV.	DESCRIPTION	DATE	APPROVED			
	-	PRELIMINARY					



MECHANICAL OUTLINE

PLANAR MONOLITHICS INDUSTRIES, INC.

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APPROVALS DATE gu. 9-22-16 CHECKED

PRODUCT FEATURE SDLVA-2G6G-70-50MV

SIZE FSCM NO. PRELIMINARY 71A34 ISSUED SCALE N:S 2 OF 2

ALL DIMENSIONS ARE IN INCHES TOLERANCES: X.XX ±0.010 X.XXX ±0.005