DESCRIPTION

THE MODEL SDLVA-0120-70 OPTION 0208 IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 200 TO 800 MHz FREQUENCY RANGE. IT HAS A TSS OF -75 dBm TYPICAL, A LOG SLOPE OF 25 mV / dB, AND A NOMINAL VIDEO BANDWIDTH OF 20 MHz. FURTHERMORE, IT HAS BEEN DESIGNED USING CUTTING EDGE GAAS TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE MAKING IT AN OPTIMUM SOLUTION FOR HIGH SPEED CHANNELIZED RECEIVER APPLICATIONS.

SPECIFICATIONS • FREQUENCY RANGE:—______ 200MHz TO 800MHz • FREQUENCY FLATNESS: —____ ± 2.25 dB MAXIMUM DYNAMIC RANGE: > 65dB
 LOG LINEARITY: ± 1.5 dB Max @ (−75 dBm TO −5 dBm)
 MINIMUM LOGGING RANGE: −75 dBm MAXIMUM LOGGING RANGE: — −5 dBm VSWR INPUT: 2.5:1 Typ, @-23 dBm
 TANGENTIAL SENSITIVITY: -80 dBm TYPICAL
 LIMITED IF OUTPUT: -16 dBm TYPICAL MAXIMUM RF INPUT POWER:— +20 dBm CW LOG VIDEO OUTPUT: OUTPUT COUPLING: DC MAXIMUM OUTPUT VOLTAGE: 2.7 VOLTS RISE TIME: _______ 15 ns Typ, 25 ns Max
FALL TIME: _______ 15 ns Typ, 30 ns Max
SETTLING TIME: _______ 100 ns Max
DC OFFSET: ______ ADJUSTABLE TO 0 VOLTS DC
LOG SLOPE: ______ 25 mV/dB NOMINAL ± 10% LOG SLOPE VARIATION WITH FREQUENCY: ± 0.5 mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)

LOG SLOPE VARIATION WITH TEMPERATURE:— \pm 1 mV/dB TYPICAL PROPAGATION DELAY:— 7 ns TYPICAL, 10 ns MAXIMUM

DC POWER SUPPLY:

-----+15V @ 100 mA

• SIZE:—_____(L) 3.75" X (W) 1.50" X (H) 0.50" • FINISH:—_____GOLD PLATED

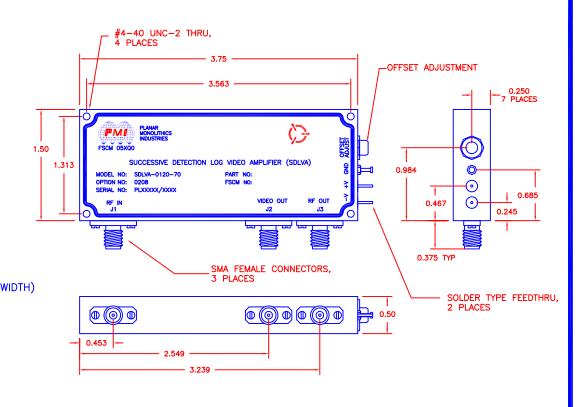
ENVIRONMENTAL RATINGS

• TEMPERATURE: -55°C TO +85°C (OPERATING) -65°C TO +100°C (STORAGE) • HUMIDITY: MIL-STD-202F, METHOD 103B COND. B MIL-STD-202F, METHOD 213B COND. B • SHOCK: —— • 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

WEIGHT: 2.75 oz.



ZONE REV.

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

REVISIONS

DATE

12-9-14

APPROVED

DESCRIPTION

PRELIMINARY

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

			PRODUCT FEATURE									
APPROVALS	DATE	S	DLVA	-0 1	20-	70	OPT	ION	02	208	3	
drawn J.M	12-9-14	20	0 TO 80	O MHz,	SUCCES	SIVE DI	ETECTOR	LOG VII	DEO A	MPLI	FIER	
CHECKED		SIZE	FSCM NO.		DWG NO.						REV.	
1001/50		A 05XQ0			PRELIMINARY						_	
ISSUED		SCALE N:S						SHEET	1	OF	1	