

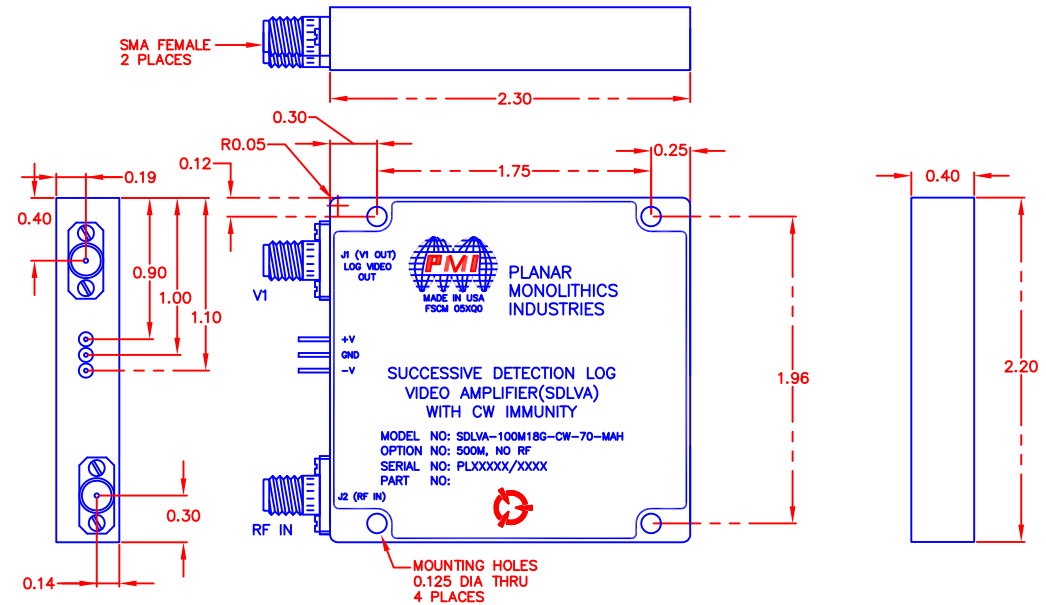
DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER: SDLVA-100M18G-CW-70-MAH-OPT500M-NORF IS A CW-IMMUNE SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER OPERATING IN THE 500 MHZ-18 GHZ FREQUENCY BAND.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/3/2017	

SPECIFICATIONS:

- FREQUENCY RANGE: 500 MHz–18 GHz
 - FREQUENCY FLATNESS: ± 2.0 dB MAX.
 - TSS: -68 dBm MIN., -70dBm TYP.
 - VSWR: 2.0:1 MAX.
 - V1 (LOG VIDEO SIGNAL AMPLITUDE): 1 VOLT MAX.
 - LOG SLOPE: 10mV/dB INTO A 50-OHM LOAD ± 1 mV MAX.
 - LOG RANGE: -65 TO +5 dBm MIN.
 - LOG LINEARITY: ± 1.75 dB (-40°C TO +85°C) MAX.
 - PULSE RANGE: 100ns TO 250 us
 - RISE TIME: 35ns MAX.
 - SETTLING TIME TO ± 1 dB: 50ns TYP.
 - RECOVERY TIME: 350ns MAX.
 - CW IMMUNITY RANGE: TSS TO -45 dBm (1dB DEGRADATION)
 - PULSE CONSIDERED "CW": 1 ms TYP.
 - REJECTION TIME: 1 ms TYP.
 - DROOP: 1dB MAX.
-
- POWER SUPPLY: ± 12 VDC TO ± 15 VDC.
 - DIMENSIONS: 2.30" X 2.20" X 0.36"
 - CONNECTORS: SMA FEMALE
 - FINISH: GOLD PLATED



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ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +85°C (OPERATING)
*OPERATING DOWN TO -54°C WITH DEGRADED SPECIFICATIONS
-54°C TO +100°C (STORAGE)
- HUMIDITY: MIL-STD-202G, METHOD 103B COND. B
- SHOCK: MIL-STD-202G, METHOD 213B COND. B
- VIBRATION: MIL-STD-202G, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202G, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202G, 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

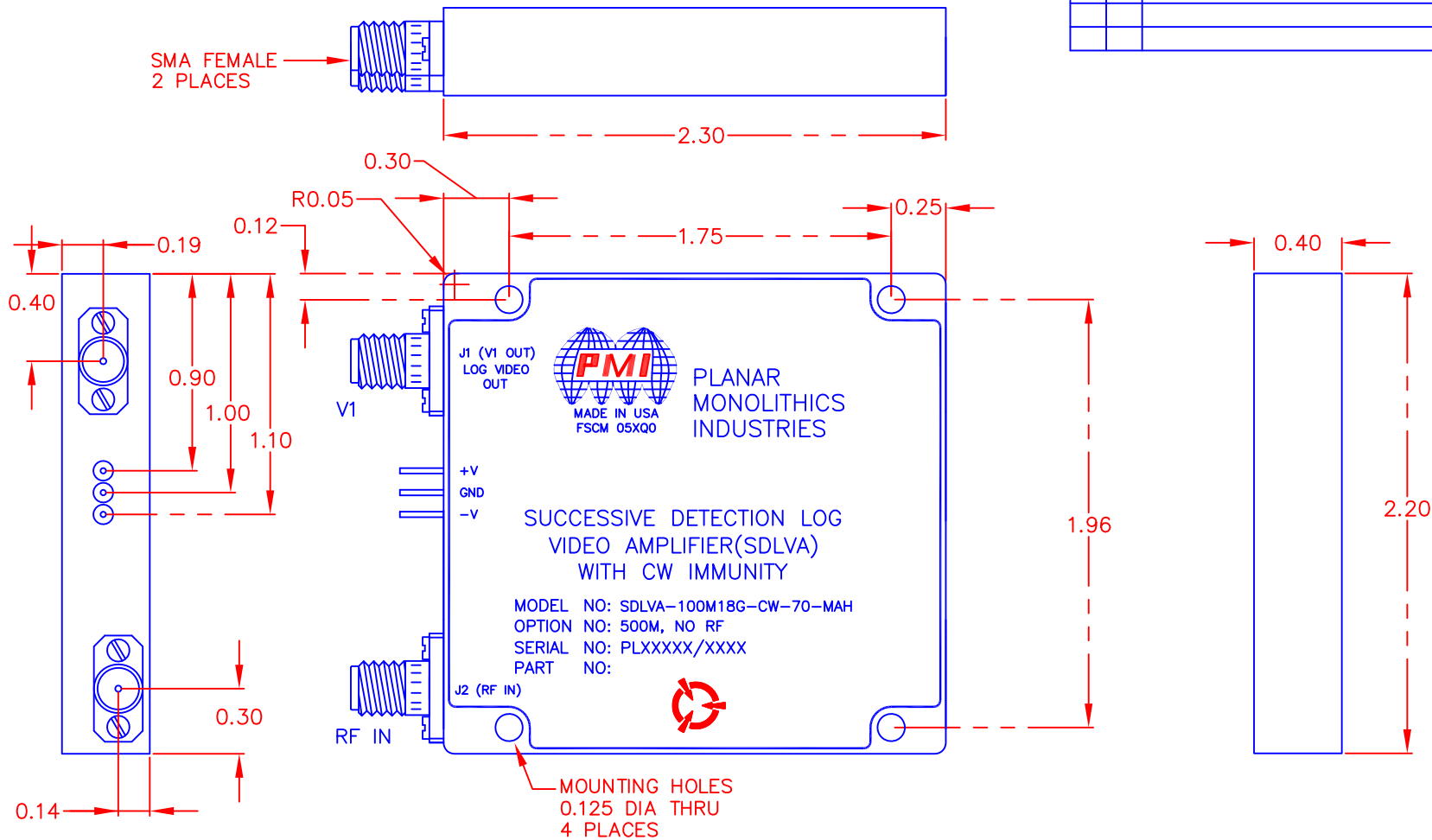
PLANAR MONOLITHICS INDUSTRIES, INC.

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 M. Hanken		3/3/2017	PRODUCT FEATURE			
CHECKED			SDLVA-100M18G-CW-70-MAH-OPT500M-NORF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27031880	A1
			SCALE	N: S		SHEET 1 OF 3

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
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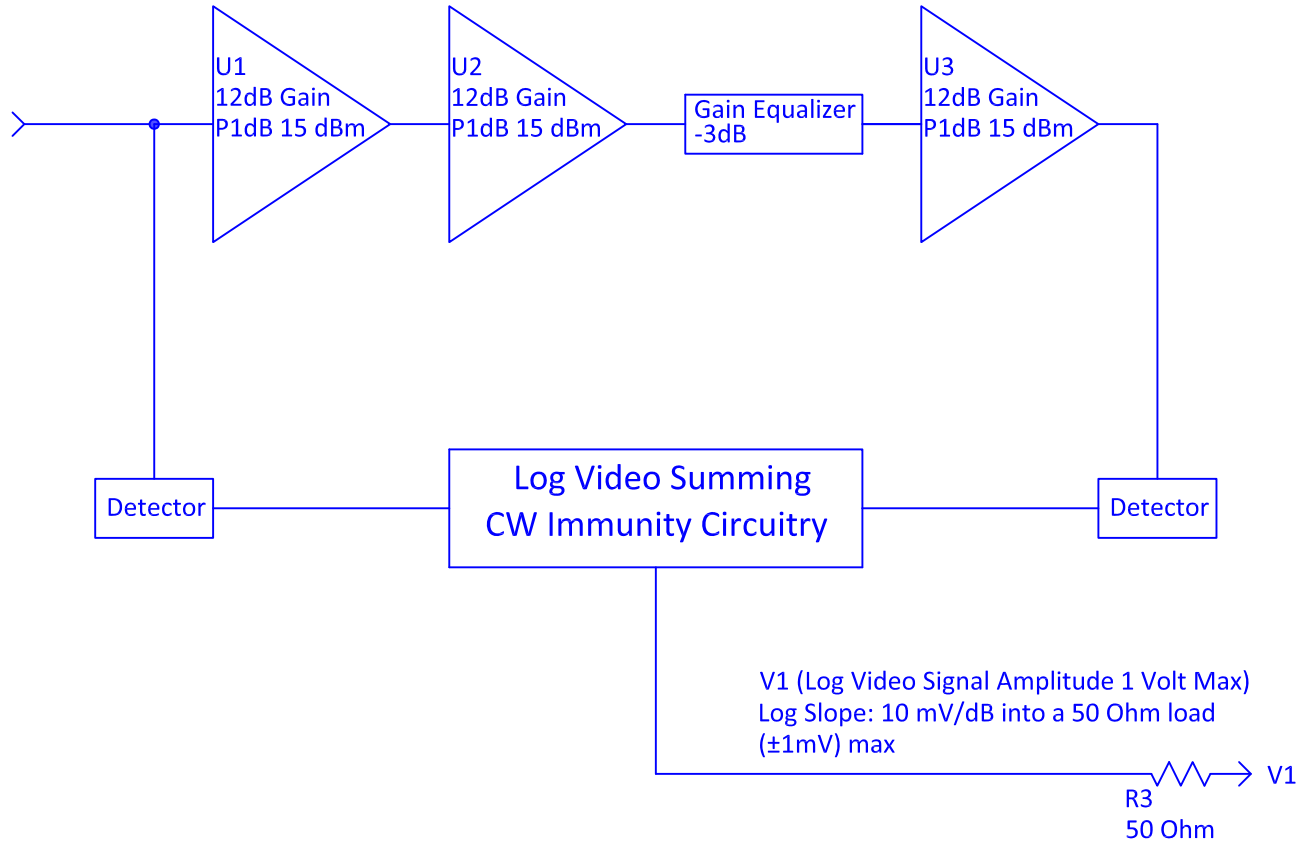
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DRAWN M. HANKEN		3/3/2017	PRODUCT FEATURE		
CHECKED			SDLVA-100M18G-CW-70-MAH-OPT500M-NORF		
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27031880
			SCALE N: S	SHEET 2 OF 3	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/3/2017	



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			SCALE N: S	SHEET 3 OF 3

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