


 PLANAR MONOLITHICS INDUSTRIES  
 7311F GROVE ROAD, FREDERICK MD. 21701  
 TEL: (301)851-4257 FAX: (301)862-4938
PART NO: 991024-1 REV. ~~M~~ <sup>N</sup>
 SUMMARY TEST DATA  
 ON

## SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)

CUSTOMER: NJOB NO: 1MODEL NO: SDLVA-07103-70SERIAL NO: PM508184TESTED BY: R.AFABLETEMPERATURE: ROOMDATE: 12/02/05OPTION NO: LA3

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	750-1250 MHz	750- 1250 MHz	✓
2	INPUT & OUTPUT VSWR:	2.0:1(maximum) 1.5:1 (typical)	IN: 1.78:1 OUT: 1.18:1	✓ ✓
3	MINIMUM LOGGING RANGE	-70 dBm (input)	-70 dBm	✓
	MAXIMUM LOGGING RANGE	+3 dBm (+5 dBm typical)	+5 dBm	✓
4	DYNAMIC RANGE	70 dB (minimum)	70 dB	✓
5	INSERTION PHASE VARIATION: INPUT: -60 dBm to 0 dBm INPUT: -65 dBm to 60 dBm	± 2.5° ± 5.0°	± 1.90° ± 2.02°	✓
6	LOG LINEARITY (@1 GHz) ± 1.5 dB max (-65 dBm to - 60 dBm) ± 1.2 dB max (-60 dBm to 0 dBm) ± 1.5 dB max ( 0 dBm to +5 dBm)	± 1.5 dB max ± 1.2 dB max ± 2.5 dB max	± 0.20 dB ± 1.16 dB ± 2.41 dB	✓ ✓ ✓
7	LOG SLOPE (@ 750 MHz ± 7 % ) LOG SLOPE (@ 1 GHz ± 5 % ) LOG SLOPE (@ 1.25 GHz ± 7 % )	30 mV/dB	31.8 mV/dB 30.3 mV/dB 28.5 mV/dB	✓ ✓ ✓
8	LOG SLOPE VARIATION W/ FREQ. (-67 dBm to +3 dBm)	± 0.5 mV/dB (at 1 GHz ± 50MHz)	± 0.3 mV/dB	✓
9	OUTPUT VOLTAGE @ 1 GHz (-67 dBm Input Power) (+3 dBm Input Power) @ 750 MHz (-67 dBm input Power) (+3 dBm Input Power) @ 1.25 GHz (-67 dBm Input Power) (+3 dBm Input Power)	300 mV DC ± 5% 2400 mV DC ± 2.5% 300 mV DC ± 15% 2400 mV DC +12.5% -15% 300 mV DC ± 15% 2400 mV DC +12.5% -15%	294 mV 2388 mV 315 mV 2517 mV 269 mV 2235 mV	✓ ✓ ✓ ✓ ✓ ✓
10	TSS	- 76 dBm (maximum)	-77 dBm	✓
11	LIMITED IF OUTPUT: INPUT:-70 dBm to +3 dBm	+13 dBm to +16 dBm	14.18 dBm to 14.29 dBm	✓



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**SUMMARY TEST DATA  
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SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)**

CUSTOMER: \_\_\_\_\_  
JOB NO: \_\_\_\_\_  
MODEL NO: SDLVA-07103-70  
SERIAL NO: PM508184

TESTED BY: R.AFABLE  
TEMPERATURE: ROOM  
DATE: 12/02/05  
OPTION NO: LA3

12	RISE TIME	25 nS (Maximum)	16 nS	✓
13	FALL TIME	35 nS (Maximum)	14 nS	✓
14	RECOVERY TIME (Maximum Pulse In) (90% Pulse input to within 0.5 )dB	50 nS (Maximum)	48 nS	✓
15	SETTLING TIME (10% Pulse input to within 0.5 dB of final video output level)	40 nS (Maximum)	33 nS	✓
16	PROPAGATION DELAY	10 nS (Maximum) 7 nS (Typical)	7 nS	✓
17	LOG SLOPE VARIATION OVER TEMPERATURE	±1.5 mV/dB (Maximum)	±1.5 mV/dB	✓
18	<u>D.C. POWER @ +5 V (no load)</u>	250 mA (maximum)	234 mA	✓
19	D.C. POWER @ -5.2 V (no load)	150 mA (maximum)	126 mA	✓

QA/QC APPROVAL: \_\_\_\_\_ **Q4** DATED: 12/7/05



	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5	R <sup>2</sup> input power (dbm)
<b>FREQUENCY</b>	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	
<b>SLOPE</b>	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	31.8 mV/dB	
<b>INTERCEPT</b>	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	24.53 mV	

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5	Error (mV)
<b>FREQUENCY</b>	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	
<b>SLOPE</b>	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	30.3 mV/dB	
<b>INTERCEPT</b>	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	23.92 mV	

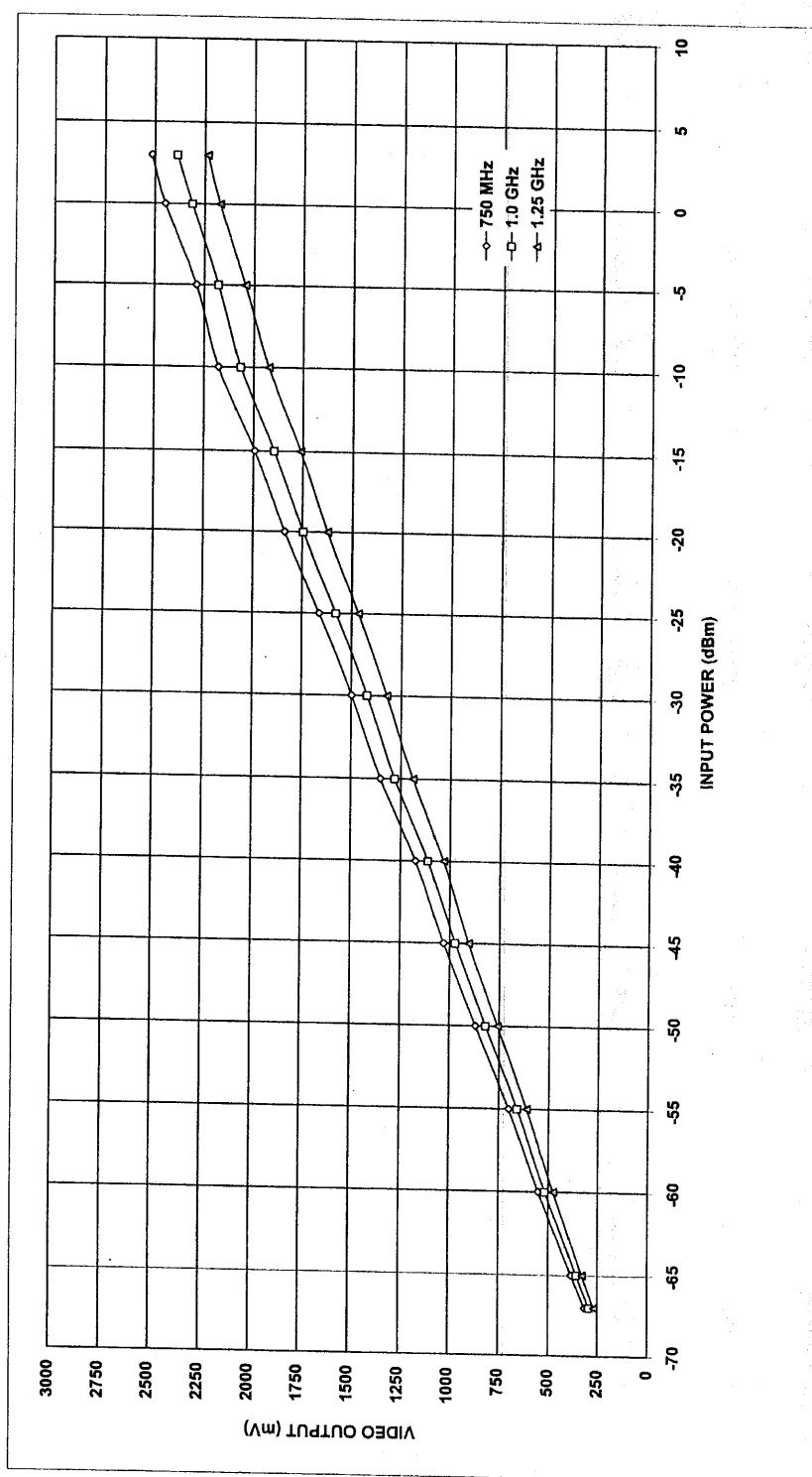
  

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5	Error (mV)
<b>FREQUENCY</b>	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	
<b>SLOPE</b>	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	28.5 mV/dB	
<b>INTERCEPT</b>	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	21.02 mV	

LIMITED IF OUT 750 MHz

LIMITED IF OUT 1.0 GHz

LIMITED IF OUT 1.25 GHz





	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
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FREQUENCY	750 MHz
SLOPE	33.6 mv/dB
INTERCEPT	16.2 mv

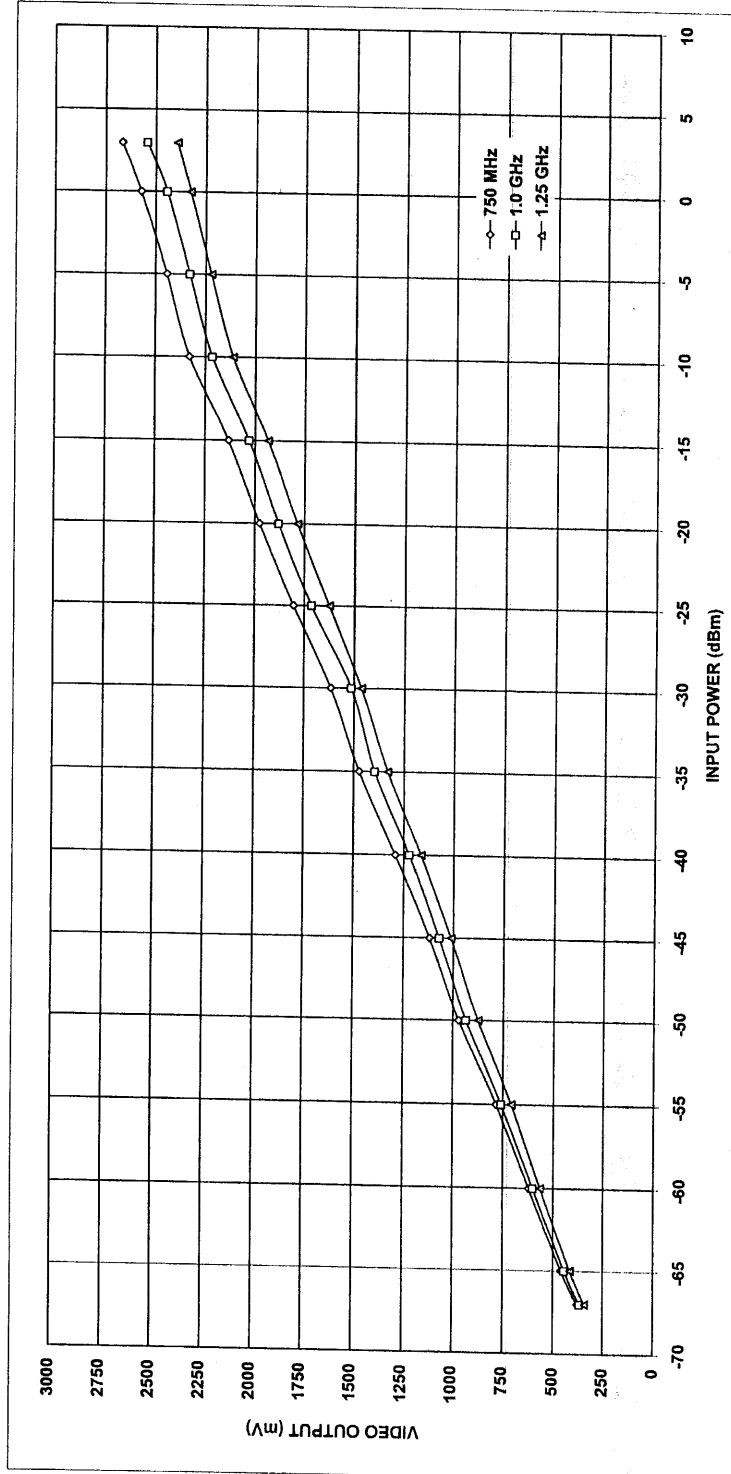
FREQUENCY	1.0 GHz
SLOPE	31.9 mv/dB
INTERCEPT	14.81 mv

FREQUENCY	1.25 GHz
SLOPE	29.8 mv/dB
INTERCEPT	13.00 mv

LIMITED IF OUT

LIMITED IF OUT

LIMITED IF OUT



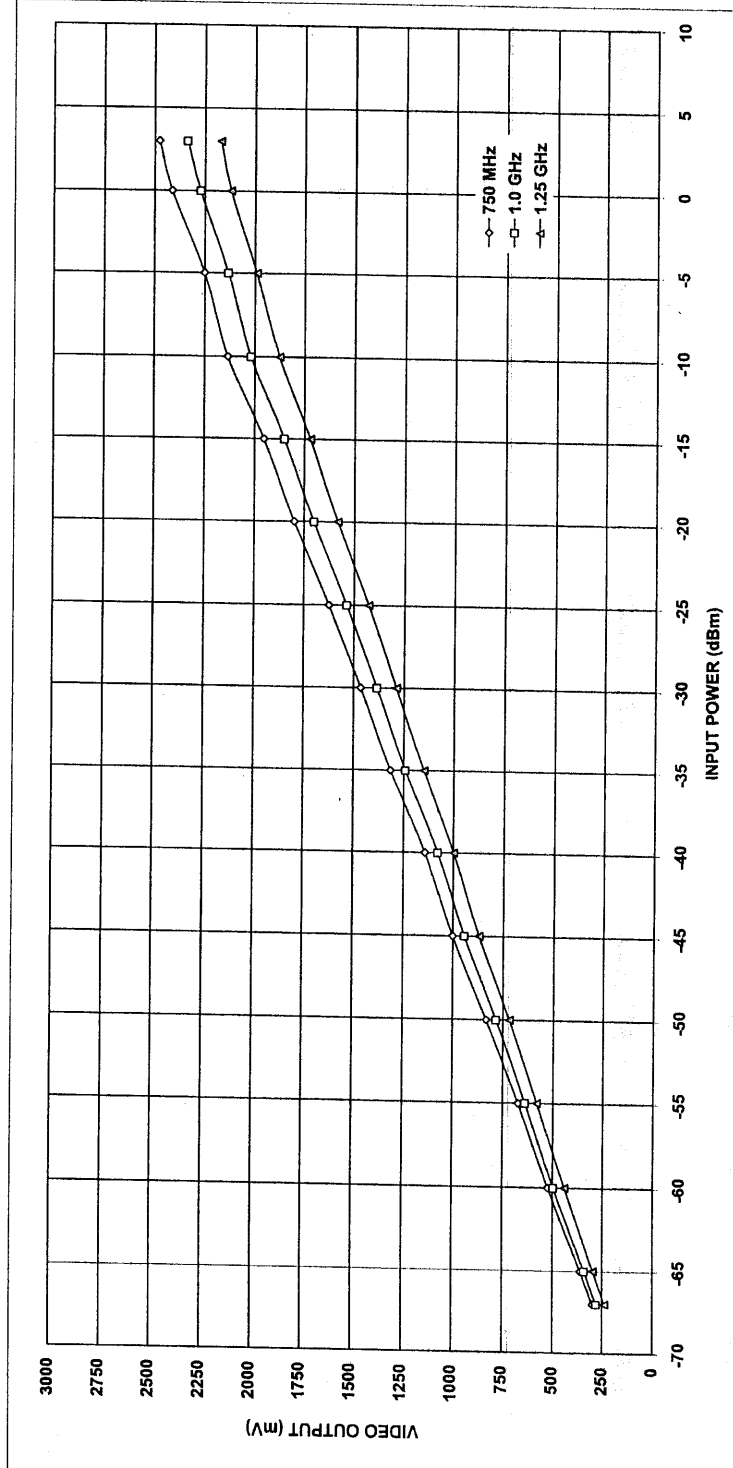


	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5	Rf Input power (dbm)
<b>FREQUENCY</b>	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	
<b>SLOPE</b>	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	315 mV/dB	
<b>INTERCEPT</b>	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	2415 mV	
<b>FREQUENCY</b>	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	
<b>SLOPE</b>	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	298 mV/dB	
<b>INTERCEPT</b>	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	2282 mV	
<b>FREQUENCY</b>	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	
<b>SLOPE</b>	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	281 mV/dB	
<b>INTERCEPT</b>	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	2103 mV	

LIMITED IF OUT

LIMITED IF OUT

LIMITED IF OUT





PART NO: 991024-1 REV. M

**SUMMARY TEST DATA  
ON  
SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)**

CUSTOMER: \_\_\_\_\_  
 JOB NO: \_\_\_\_\_  
 MODEL NO: SDLVA-07103-70  
 SERIAL NO: PM508185

TESTED BY: R.AFABLE  
 TEMPERATURE: ROOM  
 DATE: 12/02/05  
 OPTION NO: LA3

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	750-1250 MHz	750- 1250 MHz	✓
2	INPUT & OUTPUT VSWR:	2.0:1(maximum) 1.5:1 (typical)	IN: 1.55:1 OUT: 1.17:1	✓ ✓
3	MINIMUM LOGGING RANGE	-70 dBm (input)	-70 dBm	✓
	MAXIMUM LOGGING RANGE	+3 dBm (+5 dBm typical)	+5 dBm	✓
4	DYNAMIC RANGE	70 dB (minimum)	70 dB	✓
5	INSERTION PHASE VARIATION: INPUT: -60 dBm to 0 dBm INPUT: -65 dBm to 60 dBm	± 2.5°	± 2.48°	✓
		± 5.0°	± 1.62°	✓
6	LOG LINEARITY (@1 GHz) ± 1.5 dB max (-65 dBm to - 60 dBm) ± 1.2 dB max (-60 dBm to 0 dBm) ± 2.5 dB max ( 0 dBm to +5 dBm)	± 1.5 dB max	± 0.10 dB	✓
		± 1.2 dB max	± 0.99 dB	✓
		± 2.5 dB max	± 2.29 dB	✓
7	LOG SLOPE (@ 750 MHz ± 7 % ) LOG SLOPE (@ 1 GHz ± 5 % ) LOG SLOPE (@ 1.25 GHz ± 7 % )	30 mV/dB	31.5 mV/dB	✓
			30.1 mV/dB	✓
			28.3 mV/dB	✓
8	LOG SLOPE VARIATION W/ FREQ. (-67 dBm to +3 dBm)	± 0.5 mV/dB (at 1 GHz ± 50MHz)	± 0.4 mV/dB	✓
9	OUTPUT VOLTAGE @ 1 GHz (-67 dBm Input Power) (+3 dBm Input Power) @ 750 MHz (-67 dBm input Power) (+3 dBm Input Power) @ 1.25 GHz (-67 dBm Input Power) (+3 dBm Input Power)	300 mV DC ± 5% 2400 mV DC ± 2.5% 300 mV DC ± 15% 2400 mV DC +12.5% -15% 300 mV DC ± 15% 2400 mV DC +12.5% -15%	297 mV	✓
			2384 mV	✓
			322 mV	✓
			2506 mV	✓
			261 mV	✓
			2222 mV	✓
10	TSS	- 76 dBm (maximum)	-77 dBm	✓
11	LIMITED IF OUTPUT: INPUT:-70 dBm to +3 dBm	+13 dBm to +16 dBm	14.39 dBm to 14.47 dBm	✓



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**SUMMARY TEST DATA  
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SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)**

CUSTOMER: ] \_\_\_\_\_  
JOB NO: ] \_\_\_\_\_  
MODEL NO: SDLVA-07103-70  
SERIAL NO: PM508185

TESTED BY: R.AFABLE  
TEMPERATURE: ROOM  
DATE: 12/02/05  
OPTION NO: LA3

12	RISE TIME	25 nS (Maximum)	16 nS	✓
13	FALL TIME	35 nS (Maximum)	14 nS	✓
14	RECOVERY TIME (Maximum Pulse In) (90% Pulse input to within 0.5 dB)	50 nS (Maximum)	48 nS	✓
15	SETTLING TIME (10% Pulse input to within 0.5 dB of final video output level)	40 nS (Maximum)	32 nS	✓
16	PROPAGATION DELAY	10 nS (Maximum) 7 nS (Typical)	7 nS	✓
17	LOG SLOPE VARIATION OVER TEMPERTURE	±1.5 mV/dB (Maximum)	±1.5 mV/dB	✓
18	<u>D.C. POWER @ +5 V (no load)</u>	250 mA (maximum)	236 mA	✓
19	D.C. POWER @ -5.2 V (no load)	150 mA (maximum)	126 mA	✓

QA/QC APPROVAL: \_\_\_\_\_ Q4 DATED: 12/7/05



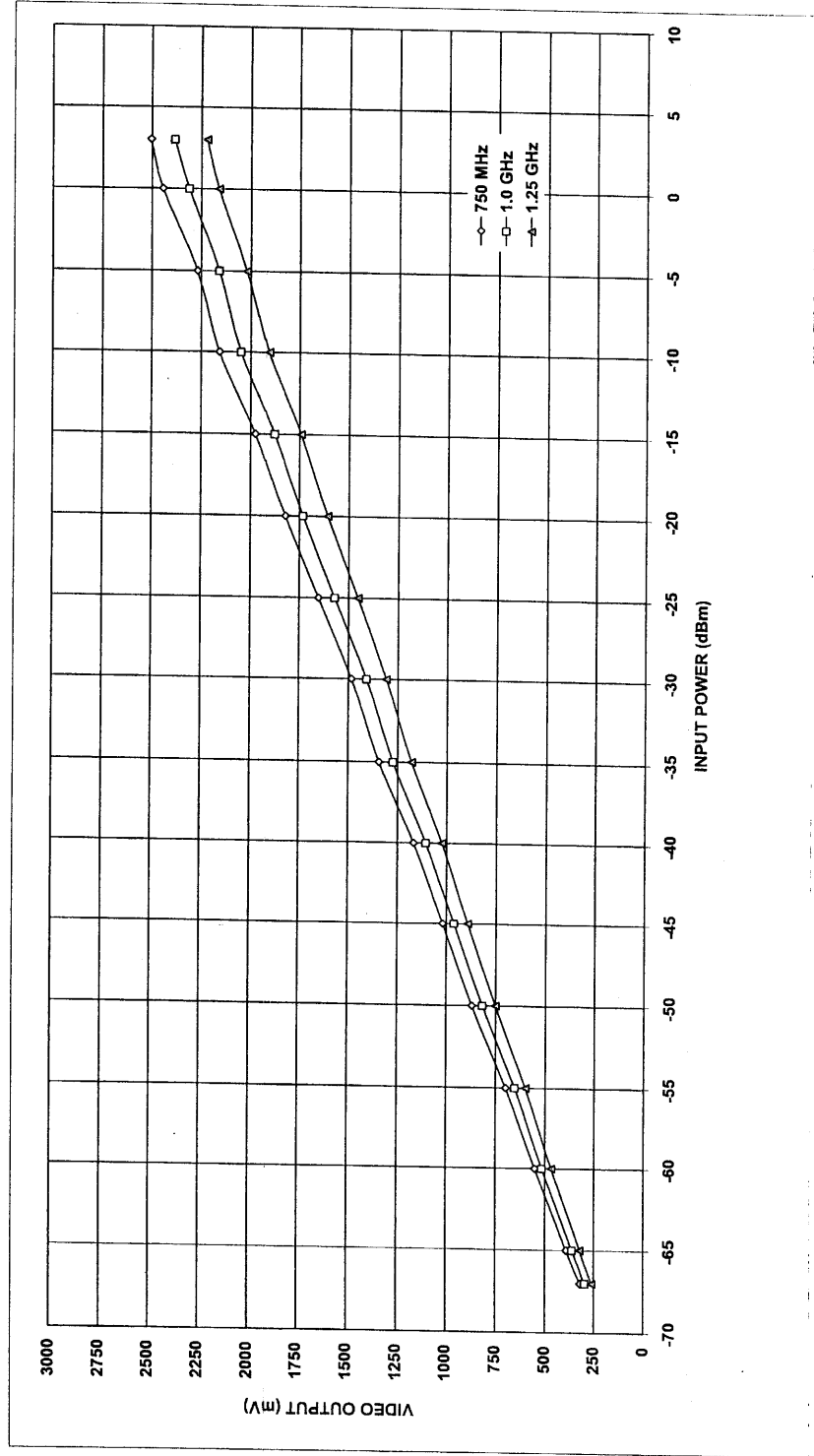
TESTED BY: R. AFABLE  
DATE: DECEMBER 2, 2005  
SERIAL #: PM508185

SDLVA-07103-70 OPTION LA3  
LOG TRANSFER WITH FREQUENCY @ +25 DEG C

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
Rf Input power (dbm)																	

FREQUENCY	750 MHz	1.0 GHz	1.25 GHz
SLOPE	3.5 mV/dB	3.1 mV/dB	2.8 mV/dB
INTERCEPT	220 mV	210 mV	195 mV

LIMITED IF OUT  
LIMITED IF OUT  
LIMITED IF OUT







	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
Rf input power (dbm)																	

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
FREQUENCY	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz
SLOPE	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
INTERCEPT	-18	-4	-11	-5	18	2	6	11	-12	14	17	9	41	-18	-20	-28	-47

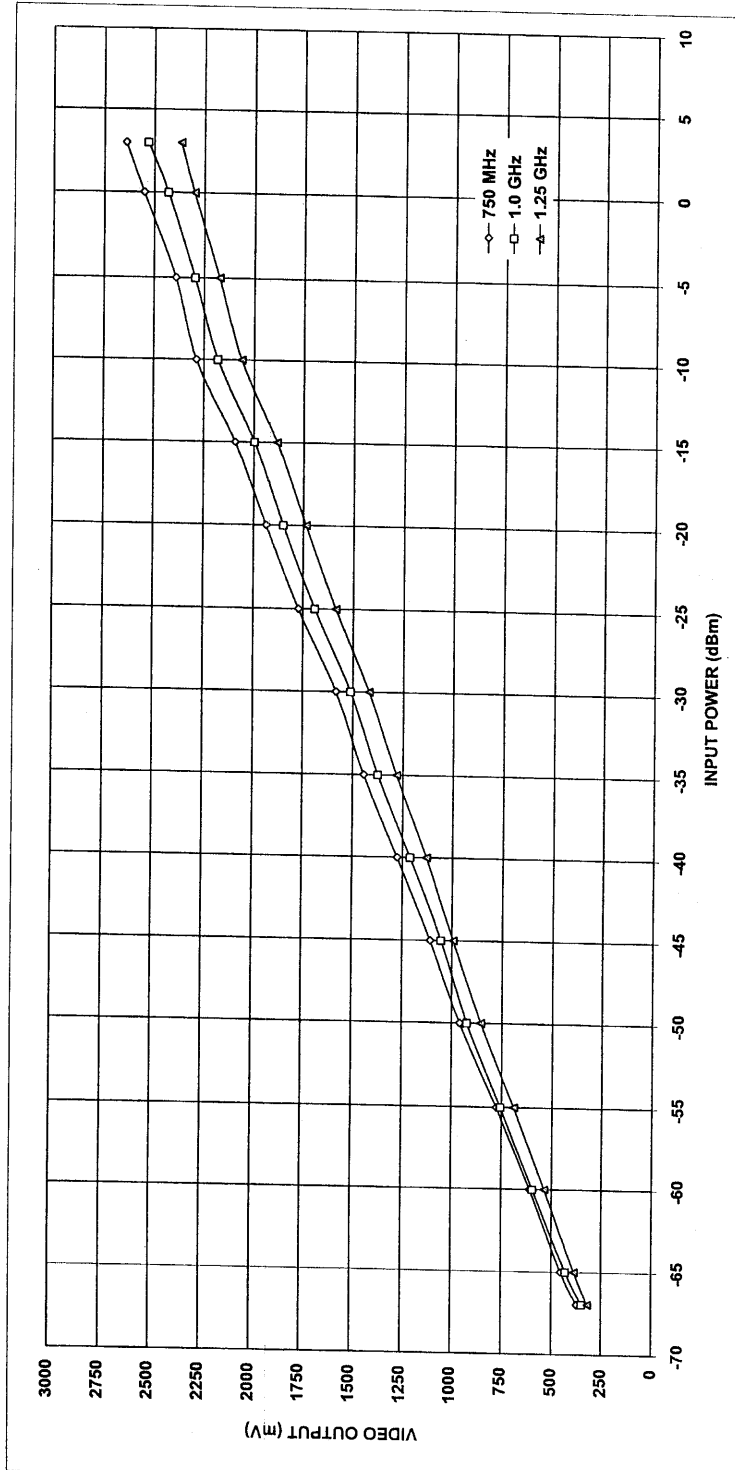
	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
FREQUENCY	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz
SLOPE	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
INTERCEPT	-26	-8	3	8	21	-4	3	5	-13	11	15	6	35	-5	-26	-20	-40

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
FREQUENCY	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz
SLOPE	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
INTERCEPT	-16	-7	-6	-1	17	8	-3	-1	-11	8	11	10	39	4	-18	-38	-64

LIMITED IF OUT

LIMITED IF OUT

LIMITED IF OUT





	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
Rf Input power (dbm)																	

FREQUENCY	2500 MHz
SLOPE	212 mV/dB
INTERCEPT	2682 mV

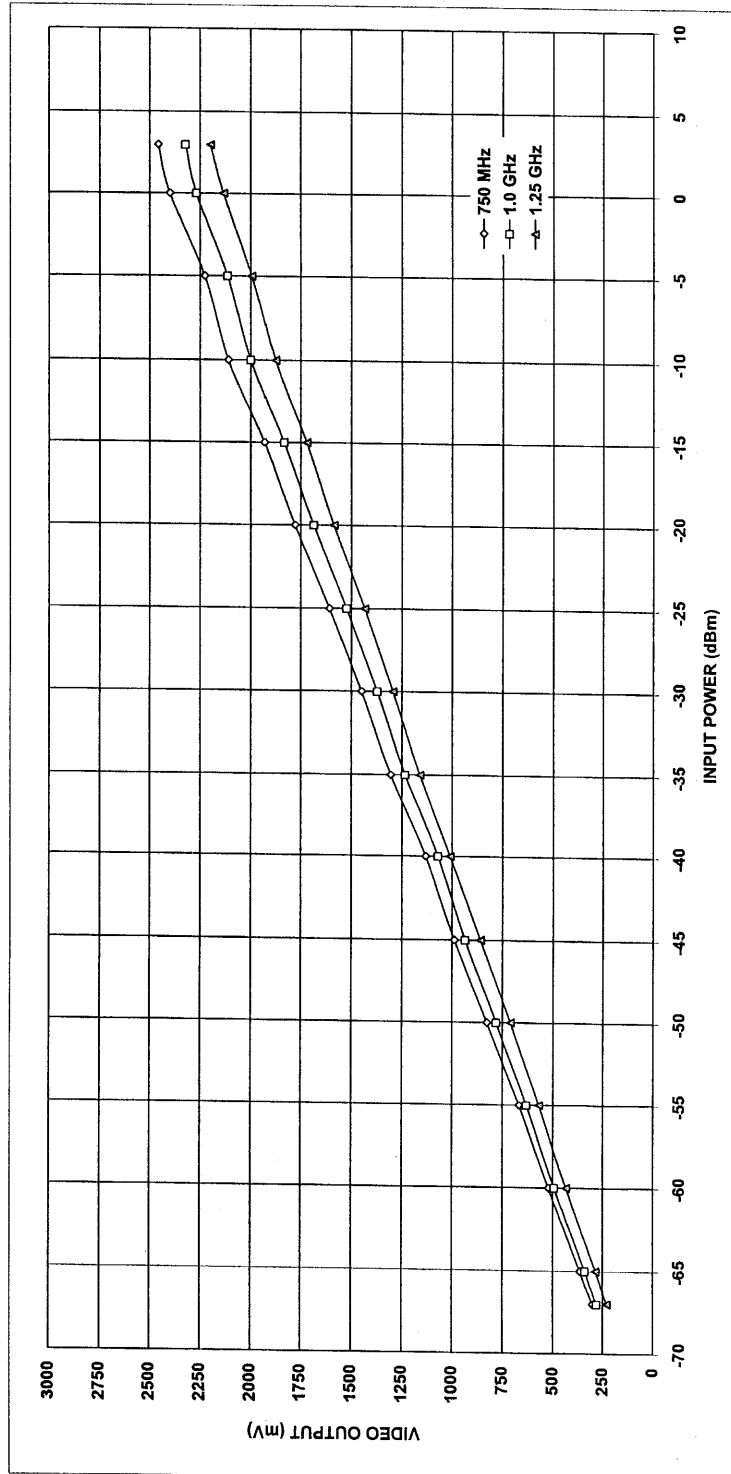
FREQUENCY	1 GHz
SLOPE	215 mV/dB
INTERCEPT	2682 mV

FREQUENCY	750 MHz
SLOPE	215 mV/dB
INTERCEPT	2682 mV

LIMITED IF OUT

LIMITED IF OUT

LIMITED IF OUT



PART NO: 991024-1 REV. ~~M~~ <sup>N</sup>
 SUMMARY TEST DATA  
 ON  
 SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)

CUSTOMER: \_\_\_\_\_

JOB NO: \_\_\_\_\_

MODEL NO: SDLVA-07103-70SERIAL NO: PM508203TESTED BY: R.AFABLETEMPERATURE: ROOMDATE: 12/02/05OPTION NO: LA3

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	750-1250 MHz	750- 1250 MHz	✓
2	INPUT & OUTPUT VSWR:	2.0:1(maximum) 1.5:1 (typical)	IN: 1.58:1 OUT: 1.15:1	✓ ✓
3	MINIMUM LOGGING RANGE	-70 dBm (input)	-70 dBm	✓
	MAXIMUM LOGGING RANGE	+3 dBm (+5 dBm typical)	+5 dBm	✓
4	DYNAMIC RANGE	70 dB (minimum)	70 dB	✓
5	INSERTION PHASE VARIATION: INPUT: -60 dBm to 0 dBm	± 2.5°	± 1.88°	✓
	INPUT: -65 dBm to 60 dBm	± 5.0°	± 1.89°	✓
6	LOG LINEARITY (@1 GHz)	± 1.5 dB max	± 0.13 dB	✓
	± 1.5 dB max (-65 dBm to - 60 dBm)	± 1.2 dB max	± 0.97 dB	✓
	± 1.2 dB max (-60 dBm to 0 dBm) ± 2.5 dB max ( 0 dBm to +5 dBm)	± 2.5 dB max	±2.13 dB	✓
7	LOG SLOPE (@ 750 MHz ± 7 % )	30 mV/dB	31.7 mV/dB	✓
	LOG SLOPE (@ 1 GHz ± 5 % )		30.0 mV/dB	✓
	LOG SLOPE (@ 1.25 GHz ± 7 % )		28.3 mV/dB	✓
8	LOG SLOPE VARIATION W/ FREQ. (-67 dBm to +3 dBm)	± 0.5 mV/dB (at 1 GHz ± 50MHz)	± 0.2 mV/dB	✓
9	OUTPUT VOLTAGE @ 1 GHz (-67 dBm Input Power)	300 mV DC ± 5%	302 mV	✓
	(+3 dBm Input Power)	2400 mV DC ± 2.5%	2385 mV	✓
	@ 750 MHz (-67 dBm input Power)	300 mV DC ± 15%	305 mV	✓
	(+3 dBm Input Power)	2400 mV DC +12.5% -15%	2506 mV	✓
	@ 1.25 GHz (-67 dBm Input Power)	300 mV DC ± 15%	265 mV	✓
	(+3 dBm Input Power)	2400 mV DC +12.5% -15%	2224 mV	✓
10	TSS	- 76 dBm (maximum)	-77 dBm	✓
11	LIMITED IF OUTPUT: INPUT:-70 dBm to +3 dBm	+13 dBm to +16 dBm	14.19 dBm to 14.29 dBm	✓



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**SUMMARY TEST DATA  
ON  
SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)**

CUSTOMER: \_\_\_\_\_  
JOB NO: \_\_\_\_\_  
MODEL NO: SDLVA-07103-70  
SERIAL NO: PM508203

TESTED BY: R.AFABLE  
TEMPERATURE: ROOM  
DATE: 12/02/05  
OPTION NO: LA3

12	RISE TIME	25 nS (Maximum)	15 nS	✓
13	FALL TIME	35 nS (Maximum)	14 nS	✓
14	RECOVERY TIME (Maximum Pulse In) (90% Pulse input to within 0.5 )dB	50 nS (Maximum)	48 nS	✓
15	SETTLING TIME (10% Pulse input to within 0.5 dB of final video output level)	40 nS (Maximum)	33 nS	✓
16	PROPAGATION DELAY	10 nS (Maximum) 7 nS (Typical)	7 nS	✓
17	LOG SLOPE VARIATION WITH TEMPERATURE	±1.5 mV/dB (Maximum)	±1.5 mV/dB	✓
18	<u>D.C. POWER @ +5 V (no load)</u>	250 mA (maximum)	233 mA	✓
19	D.C. POWER @ -5.2 V (no load)	150 mA (maximum)	127 mA	✓

QA/QC APPROVAL: \_\_\_\_\_ Q4 DATED: 12/7/05



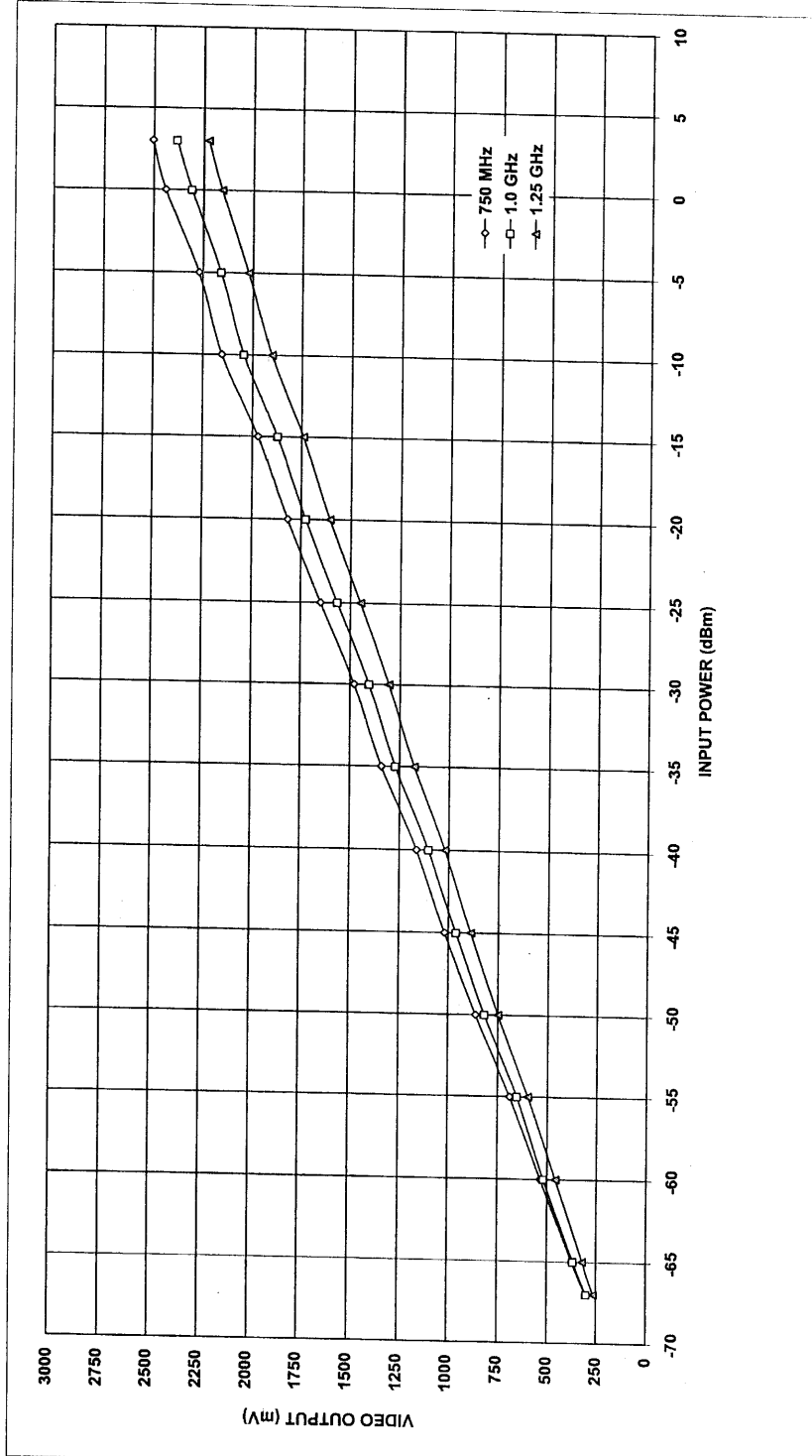
-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
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FREQUENCY	750 MHz																
SLOPE	20.5 mV/dB																
INTERCEPT	-66																

FREQUENCY	1.0 GHz																
SLOPE	20.5 mV/dB																
INTERCEPT	-64																

FREQUENCY	1.25 GHz																
SLOPE	20.5 mV/dB																
INTERCEPT	-58																

LIMITED IF OUT  
 LIMITED IF OUT  
 LIMITED IF OUT



SDLVA-07103-70 OPTION LA3  
LOG TRANSFER WITH FREQUENCY @ -40 DEG C

TESTED BY: R. AFABLE  
DATE: DECEMBER 2, 2005

SERIAL #: PIM508203

PLANAR  
MONOLITHIC  
INDUSTRIES



	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
Rf input power (dbm)																	

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
FREQUENCY	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz	750 MHz
SLOPE	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB	32.0 mV/dB
INTERCEPT	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV	238 mV

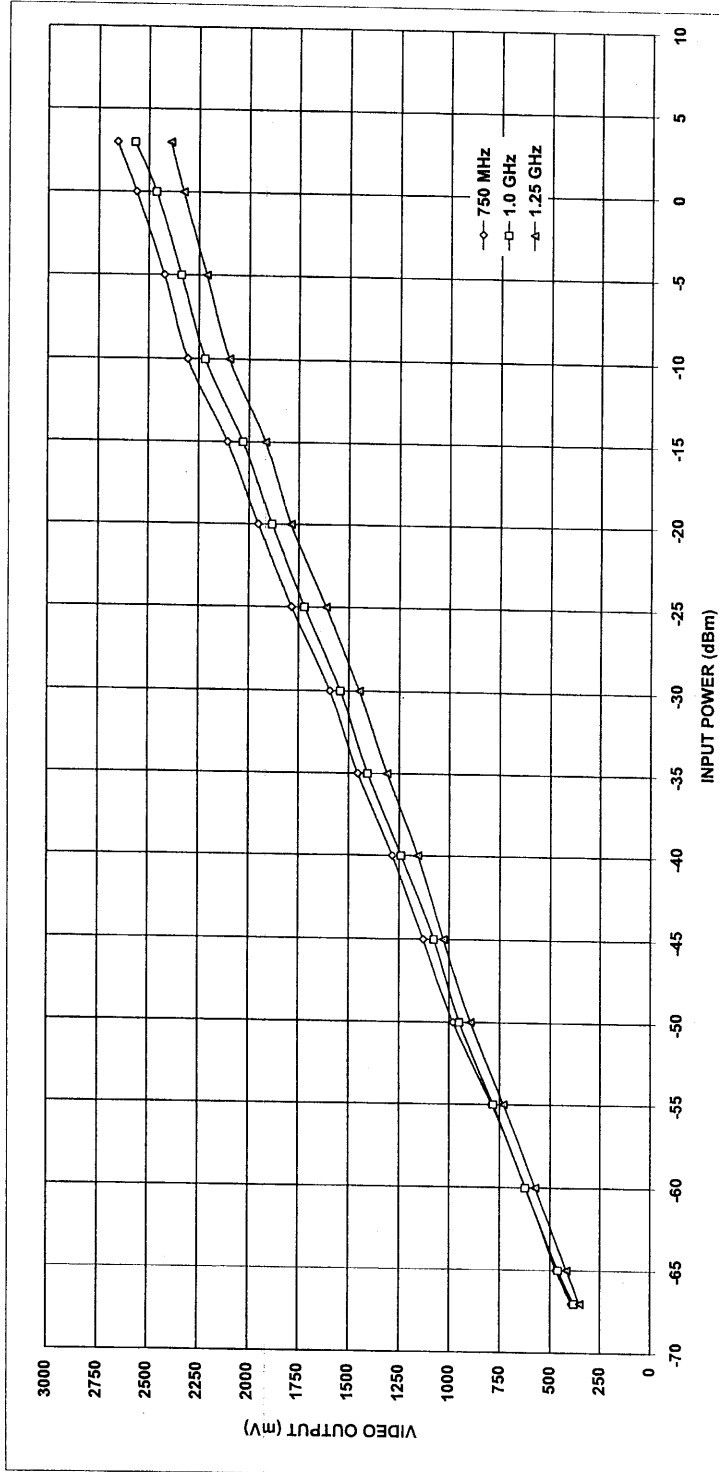
	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
FREQUENCY	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz
SLOPE	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB	31.2 mV/dB
INTERCEPT	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
FREQUENCY	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz	1.25 GHz
SLOPE	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB	29.5 mV/dB
INTERCEPT	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV	249 mV

LIMITED IF OUT

LIMITED IF OUT

LIMITED IF OUT





TESTED BY: R. AFABLE  
DATE: DECEMBER 2, 2005

SERIAL #: PM508203

SDLVA-07103-70 OPTION LA3  
LOG TRANSFER WITH FREQUENCY @ +75 DEG C

	-67	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	3	5
Rf Input power (dbm)																	

FREQUENCY	750 MHz
SLOPE	2.1 mV/dB
INTERCEPT	2397 mV
FREQUENCY	1 GHz
SLOPE	2.0 mV/dB
INTERCEPT	2367 mV
FREQUENCY	1.25 GHz
SLOPE	2.0 mV/dB
INTERCEPT	2312 mV

LIMITED IF OUT  
LIMITED IF OUT  
LIMITED IF OUT

