



Planar Monolithics Industries, Inc.
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**SUMMARY TEST DATA
 ON
 DETECTOR LOG VIDEO AMPLIFIER**

CUSTOMER:	_____	JOB NO:	SO09000054
MODEL NO:	SDLVA-0120-70-CONDOR	TESTED BY:	D. DURBIN
OPTION NO:	_____	TEMPERATURE:	+25°C
SERIAL NO:	PL5742	DATE:	7/29/09

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	750 MHz TO 1250 MHz	750 MHz TO 1250 MHz	
2	CENTER FREQUENCY	1 GHz	1 GHz	
3	INPUT LOGGING RANGE	-60dBm TO +5 dBm (MIN)	SEE PLOTS	
4	LOG VIDEO OUTPUT	20mV/dB (MIN) 30 mV /dB (MAX)	22.6 mV / dB 25.2 mV / dB	
5	LOG VIDEO DC OFFSET	100mV NOMINAL (ADJUSTABLE ± 50%)	Pass	
6	LOG VIDEO LINEARITY BEST FIT STRAIGHT LINE (-60 dBm to +5 dBm)	± 2.5 dB (MAX) @ ROOM TEMPERATURE	± 0.51 dB	
7	LIMITED OUTPUT	-6 dBm(NOM), ±2.0 dB (MAX) @ ROOM	-4.83 dBm -7.10 dBm	
8	LIMITED OUTPUT FLATNESS	± 1.75 dB (MAX) @ ROOM	± 1.14 dB	
9	SETTLING TIME	40 nS MAX (TO WITHIN 1 dB)	Pass (See Typical Speed Characteristics)	No Overshoot
10	RISE TIME	25 nS MAX	Pass (See Typical Speed Characteristics)	



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11	FALL TIME	30 nS MAX	Pass (See Typical Speed Characteristics)	
12	VSWR (+25°C) - INPUT	1.8:1 (MAX)	1.21 : 1	
13	VSWR (+25°C) - OUTPUT	2.5:1 (MAX)	2.4 : 1	
14	DC POWER +9V TO +18 V	200 mA (MAX)	79 mA	
15	DC POWER -9V TO -18 V	200 mA (MAX)	139 mA	
16	VIDEO LOAD	100 OHMS ± 10 %	100 OHMS	

TESTED ON: HP 8350 Sweep Oscillator, Agilent 8593E Spectrum Analyzer, Agilent 34410A Digital Multimeter,
HP E3631A Power Supply, Agilent E8257D Analog Signal Generator, Agilent DSO6034A

QA/QC APPROVAL: _____ DATED: _____

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVA-0120-70-CONDOR OPTION :
 TESTED BY: D. DURBIN
 DATE: 7/29/09

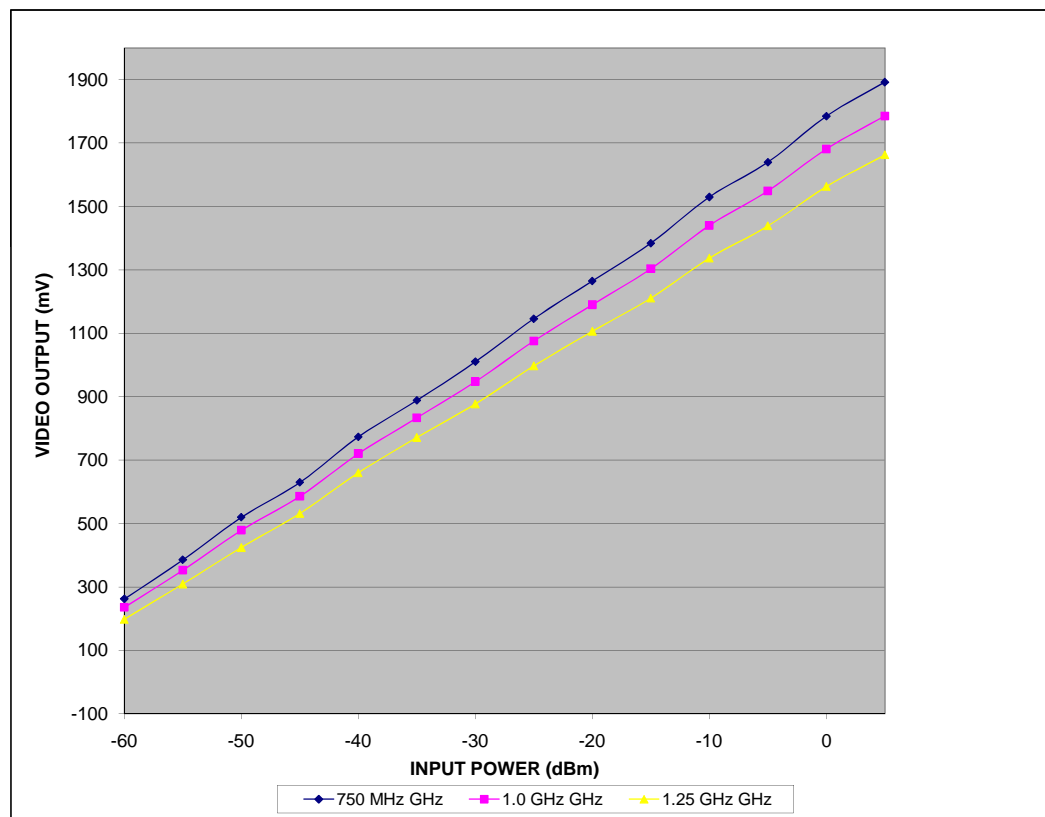
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Frequency			-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
750 MHz	INTERCEPT (mV)	1772	262	385	520	630	774	888	1010	1146	1265	1384	1530	1640	1785	1893	Measured Value (mV)
	SLOPE (mV/dB)	25.19	1	-1	7	-9	9	-2	-6	4	-3	-10	10	-6	13	-5	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.15	-5.01	-4.92	-4.88	-4.88	-4.85	-4.88	-4.85	-4.85	-4.85	-4.85	-4.85	-4.85	-4.88	-4.83
1.0 GHz	INTERCEPT (mV)	1672	236	353	479	586	720	834	947	1076	1190	1304	1440	1549	1681	1786	Measured Value (mV)
	SLOPE (mV/dB)	23.95	1	-1	5	-8	7	0	-6	3	-2	-9	8	-3	10	-6	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.36	-5.87	-5.66	-5.61	-5.57	-5.57	-5.59	-5.59	-5.59	-5.57	-5.57	-5.57	-5.57	-5.57	-5.57
1.25 GHz	INTERCEPT (mV)	1557	198	309	424	532	660	771	877	997	1106	1211	1337	1439	1563	1663	Measured Value (mV)
	SLOPE (mV/dB)	22.64	-2	-3	-1	-7	8	6	-1	6	2	-7	6	-5	6	-8	Error (mV)
	LIMITED IF OUTPUT (dBm)		-7.10	-6.33	-6.13	-6.02	-6.02	-6.00	-6.00	-5.99	-6.02	-6.00	-6.02	-6.00	-6.02	-6.01	-6.01

LINEARITY(-60 TO +5 dBm) ± 0.51 dB
 FREQUENCY FLATNESS ± 4.59 dB



LIMITED IF OUTPUT MAX -4.83 dBm
 LIMITED IF OUTPUT MIN -7.10 dBm
 LIMITED IF FLATNESS ± 1.14 dB