



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:	PL5746	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)	23.6 mV / dB 26.1 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	± 0.54 dB	
7	LIMITED OUTPUT	-6 dBm(NOM), ±2.0 dB (MAX) @ ROOM	-4.95 dBm -7.28 dBm	
8	LIMITED OUTPUT FLATNESS	± 1.75 dB (MAX) @ ROOM	± 1.17 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)	1.19 : 1	
13	VSWR (+25°C) - OUTPUT	2.5:1 (MAX)	2.43 : 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

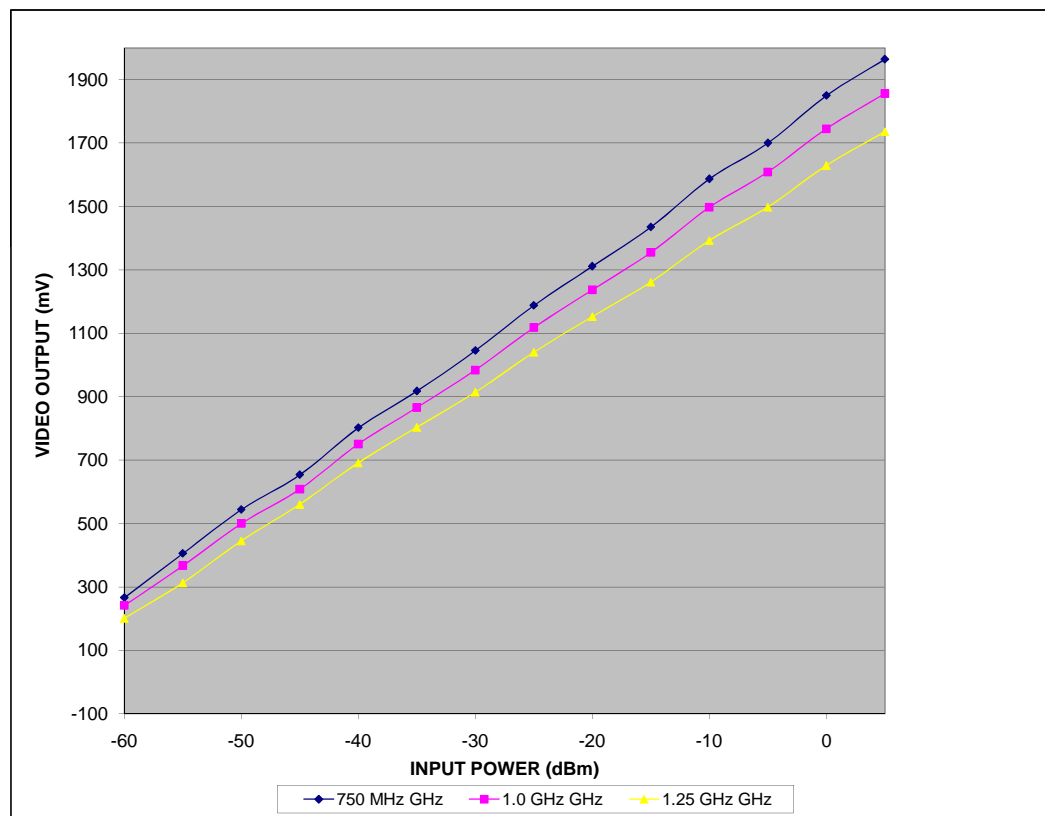
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Frequency			-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
750 MHz	INTERCEPT (mV)	1838	266	405	544	654	802	918	1046	1188	1312	1435	1587	1701	1850	1965	Measured Value (mV)
	SLOPE (mV/dB)	26.12	-5	4	12	-9	9	-6	-8	3	-4	-11	11	-7	12	-3	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.26	-5.05	-4.99	-4.97	-4.97	-4.97	-5.03	-4.96	-4.97	-4.95	-4.95	-4.95	-4.97	-4.97	Measured Value (mV)
1.0 GHz	INTERCEPT (mV)	1737	242	367	500	609	751	866	984	1118	1237	1355	1498	1609	1746	1856	Measured Value (mV)
	SLOPE (mV/dB)	24.89	-2	-1	7	-9	9	0	-6	3	-2	-9	9	-4	8	-5	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.33	-6.01	-5.78	-5.73	-5.71	-5.71	-5.71	-5.68	-5.68	-5.68	-5.68	-5.66	-5.68	-5.71	Measured Value (mV)
1.25 GHz	INTERCEPT (mV)	1624	201	313	445	560	692	804	914	1040	1153	1262	1393	1498	1630	1736	Measured Value (mV)
	SLOPE (mV/dB)	23.64	-5	-11	3	0	13	7	-1	7	1	-8	5	-8	5	-6	Error (mV)
	LIMITED IF OUTPUT (dBm)		-7.28	-6.45	-6.25	-6.18	-6.18	-6.14	-6.16	-6.16	-6.16	-6.16	-6.16	-6.14	-6.16	-6.14	Measured Value (mV)

LINEARITY(-60 TO +5 dBm) ± 0.54 dB
 FREQUENCY FLATNESS ± 4.57 dB



LIMITED IF OUTPUT MAX -4.95 dBm
 LIMITED IF OUTPUT MIN -7.28 dBm
 LIMITED IF FLATNESS ± 1.17 dB