



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

CUSTOMER: _____
MODEL NO: SDLVA-0120-70-CONDOR
OPTION NO: _____
SERIAL NO: PL5743

JOB NO: SO09000054
TESTED BY: D. DURBIN
TEMPERATURE: +25°C
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)	23.0 mV / dB 25.4 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	± 0.57 dB	
7	LIMITED OUTPUT	-6 dBm(NOM), ±2.0 dB (MAX) @ ROOM	-5.01 dBm -7.61 dBm	
8	LIMITED OUTPUT FLATNESS	± 1.75 dB (MAX) @ ROOM	± 1.30 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)	1.18 : 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)	140 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

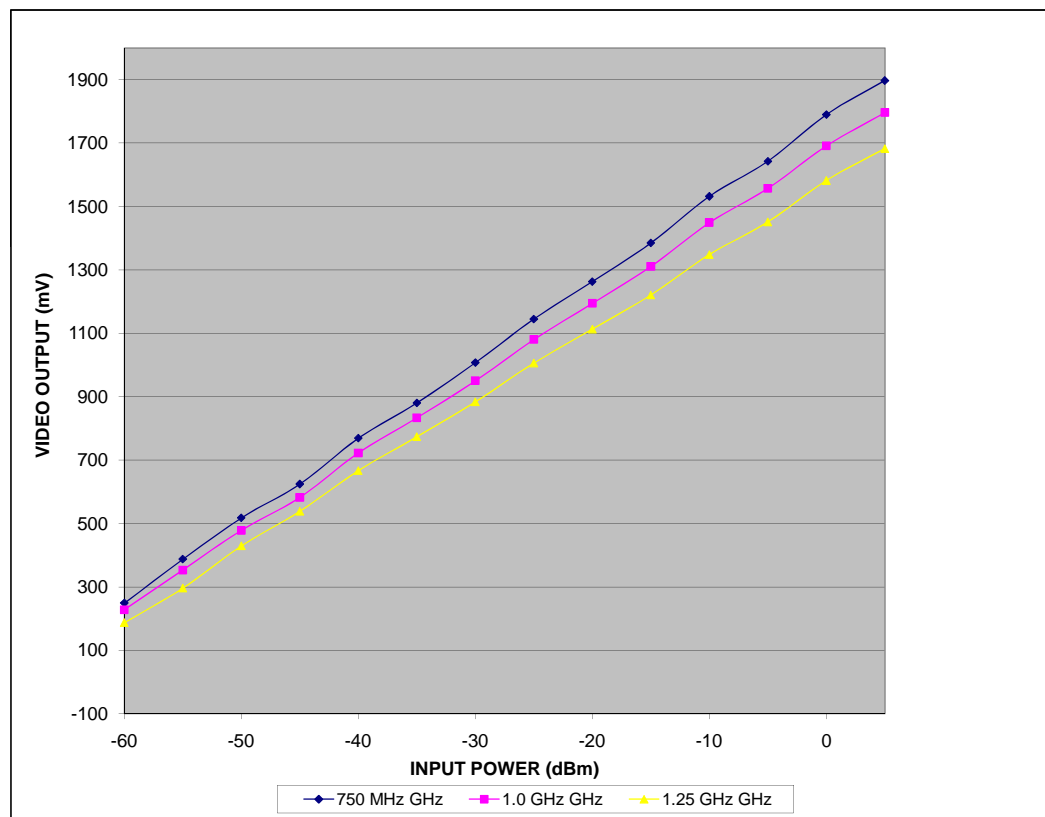
SERIAL No. : PL5743



PLANAR MONOLITHICS INDUSTRIES
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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)	1775	249	387	518	624	769	881	1007	1145	1263	1385	1532	1643	1790	1897	Measured Value (mV)
	SLOPE (mV/dB)	25.36	-5	7	11	-10	8	-7	-7	4	-5	-10	10	-6	14	-5	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.38	-5.19	-5.08	-5.03	-5.03	-5.03	-5.03	-5.01	-5.01	-5.01	-5.03	-5.01	-5.03	-5.01	
1.0 GHz	INTERCEPT (mV)	1681	228	354	479	583	723	833	950	1080	1194	1311	1449	1557	1691	1796	Measured Value (mV)
	SLOPE (mV/dB)	24.19	-2	2	6	-11	9	-1	-6	4	-3	-8	10	-3	10	-6	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.52	-6.05	-5.87	-5.85	-5.82	-5.82	-5.82	-5.82	-5.82	-5.80	-5.82	-5.82	-5.80	-5.82	-5.82
1.25 GHz	INTERCEPT (mV)	1575	187	296	429	539	667	774	884	1006	1113	1221	1349	1452	1582	1683	Measured Value (mV)
	SLOPE (mV/dB)	23.02	-6	-12	6	0	13	5	0	7	-1	-8	4	-8	8	-7	Error (mV)
	LIMITED IF OUTPUT (dBm)		-7.61	-6.70	-6.35	-6.34	-6.32	-6.32	-6.28	-6.28	-6.30	-6.29	-6.30	-6.28	-6.30	-6.30	

LINEARITY(-60 TO +5 dBm) ± 0.57 dB
 FREQUENCY FLATNESS ± 4.29 dB



LIMITED IF OUTPUT MAX -5.01 dBm
 LIMITED IF OUTPUT MIN -7.61 dBm
 LIMITED IF FLATNESS ± 1.30 dB