



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: PL5740

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	-4.88 dBm -7.23 dBm	
8	LIMITED OUTPUT FLATNESS	± 1.75 dB (MAX) @ ROOM	± 1.18 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)	1.2 : 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

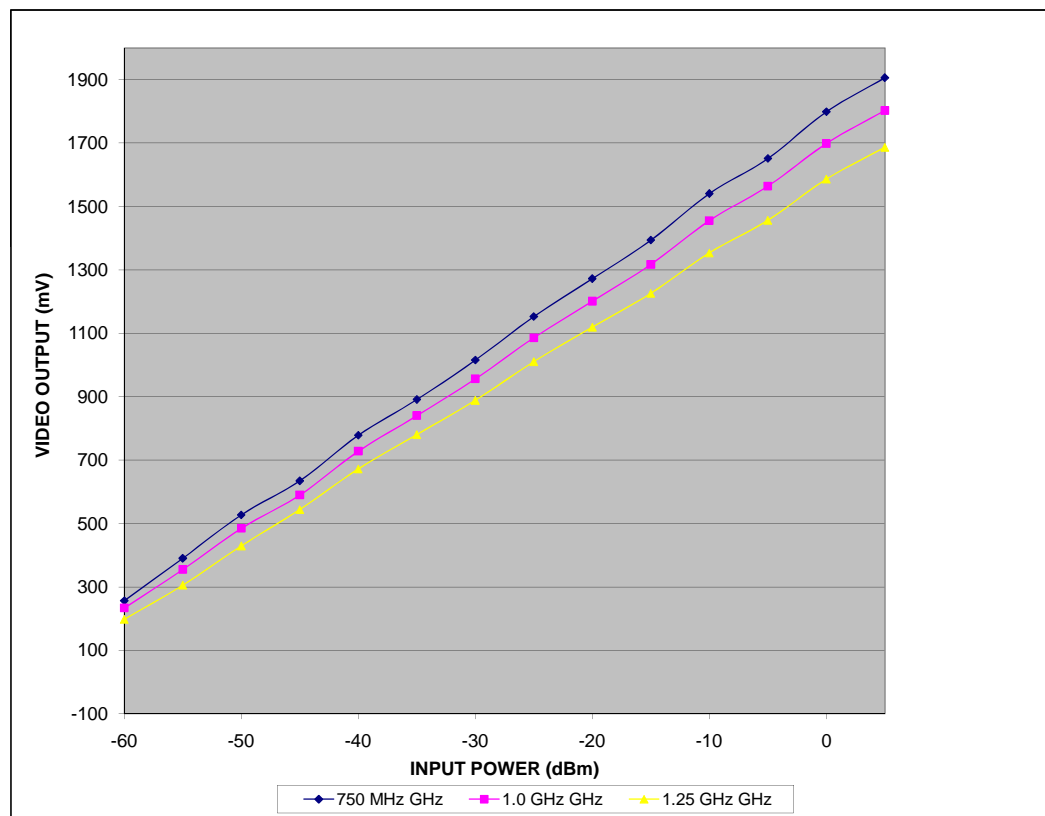
SERIAL No. : PL5740



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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)	1785	256	390	527	635	778	891	1015	1153	1272	1394	1541	1652	1799	1906	Measured Value (mV)
	SLOPE (mV/dB)	25.39	-5	2	12	-7	9	-5	-8	3	-4	-10	10	-6	14	-5	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.26	-5.03	-4.92	-4.92	-4.90	-4.90	-4.90	-4.88	-4.88	-4.88	-4.88	-4.88	-4.88	-4.90	-4.88
1.0 GHz	INTERCEPT (mV)	1689	234	355	485	590	728	840	956	1086	1201	1317	1456	1564	1699	1803	Measured Value (mV)
	SLOPE (mV/dB)	24.23	-1	-1	7	-9	9	-1	-6	3	-3	-8	9	-3	10	-7	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.40	-5.89	-5.68	-5.66	-5.64	-5.64	-5.66	-5.64	-5.64	-5.64	-5.66	-5.64	-5.66	-5.61	Measured Value (mV)
1.25 GHz	INTERCEPT (mV)	1579	198	305	429	544	672	780	889	1011	1119	1226	1354	1456	1586	1686	Measured Value (mV)
	SLOPE (mV/dB)	22.97	-3	-10	-1	-1	12	6	-1	6	0	-8	5	-8	8	-7	Error (mV)
	LIMITED IF OUTPUT (dBm)		-7.23	-6.40	-6.09	-6.10	-6.07	-6.02	-6.04	-6.03	-6.02	-6.04	-6.04	-6.02	-6.04	-6.04	Measured Value (mV)

LINEARITY(-60 TO +5 dBm) ± 0.57 dB
 FREQUENCY FLATNESS ± 4.40 dB



LIMITED IF OUTPUT MAX -4.88 dBm
 LIMITED IF OUTPUT MIN -7.23 dBm
 LIMITED IF FLATNESS ± 1.18 dB