



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: PL5749

JOB NO: _____
TESTED BY: D. DURBIN
TEMPERATURE: +25°C
DATE: 7/30/09

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)	23.1 mV / dB 25.7 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	-4.94 dBm -7.30 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)	80 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: 7/30/09

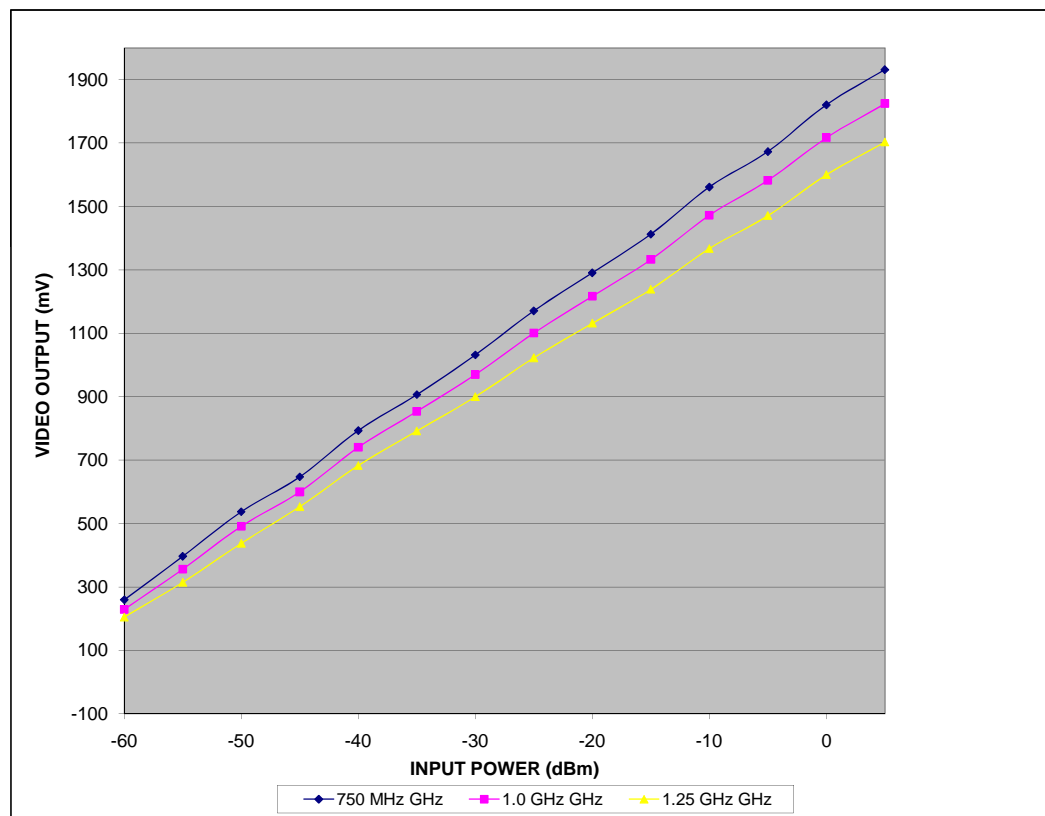
SERIAL No. : PL5749



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)	1809	259	397	537	647	793	907	1032	1171	1291	1413	1562	1674	1821	1932	Measured Value (mV)
	SLOPE (mV/dB)	25.69	-8	0	13	-6	12	-3	-6	4	-4	-11	10	-7	12	-5	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.33	-5.15	-4.99	-4.94	-4.94	-4.99	-4.99	-4.99	-4.99	-4.97	-4.97	-4.97	-4.97	-4.99	-4.97
1.0 GHz	INTERCEPT (mV)	1709	229	356	491	600	740	854	970	1101	1217	1333	1472	1582	1717	1824	Measured Value (mV)
	SLOPE (mV/dB)	24.53	-8	-4	8	-6	12	3	-4	5	-2	-9	8	-4	7	-8	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.64	-6.01	-5.82	-5.78	-5.75	-5.75	-5.75	-5.73	-5.75	-5.73	-5.75	-5.73	-5.73	-5.73	Measured Value (mV)
1.25 GHz	INTERCEPT (mV)	1594	205	314	438	553	683	792	900	1023	1132	1239	1368	1471	1600	1703	Measured Value (mV)
	SLOPE (mV/dB)	23.1	-3	-9	-1	-1	13	6	-1	6	0	-8	5	-7	6	-6	Error (mV)
	LIMITED IF OUTPUT (dBm)		-7.30	-6.60	-6.24	-6.22	-6.20	-6.20	-6.20	-6.20	-6.20	-6.17	-6.20	-6.20	-6.20	-6.20	Measured Value (mV)

LINEARITY(-60 TO +5 dBm) ± 0.57 dB
 FREQUENCY FLATNESS ± 4.57 dB



LIMITED IF OUTPUT MAX -4.94 dBm
 LIMITED IF OUTPUT MIN -7.30 dBm
 LIMITED IF FLATNESS ± 1.18 dB