



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:	PL5745	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 24.9 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	± 0.64 dB	
7	LIMITED OUTPUT	-6 dBm(NOM), ±2.0 dB (MAX) @ ROOM	-4.71 dBm -7.03 dBm	
8	LIMITED OUTPUT FLATNESS	± 1.75 dB (MAX) @ ROOM	± 1.16 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)	2.45 : 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

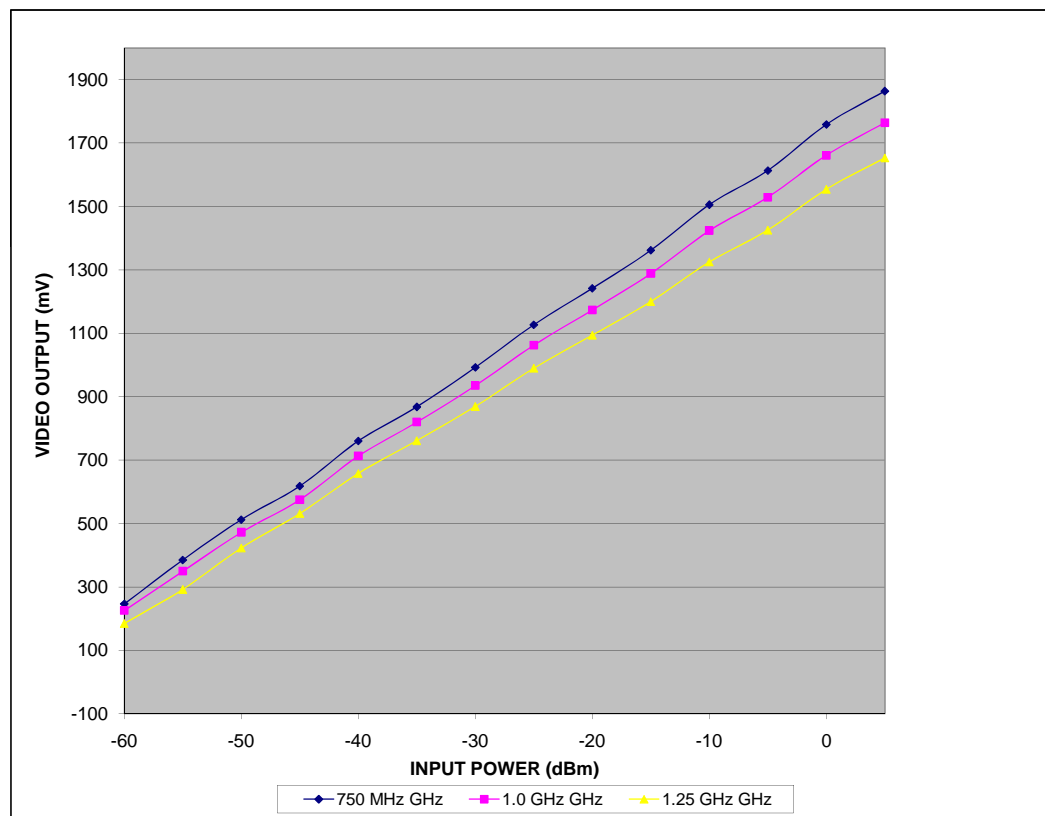
SERIAL No. : PL5745



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)	1745	246	385	513	618	760	868	993	1127	1242	1362	1506	1614	1759	1865	Measured Value (mV)
	SLOPE (mV/dB)	24.85	-7	7	10	-8	10	-7	-7	4	-6	-10	10	-7	14	-5	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.10	-4.90	-4.78	-4.76	-4.76	-4.76	-4.74	-4.74	-4.71	-4.74	-4.74	-4.74	-4.74	-4.74	-4.74
1.0 GHz	INTERCEPT (mV)	1652	226	350	473	575	713	820	935	1063	1174	1289	1424	1530	1662	1765	Measured Value (mV)
	SLOPE (mV/dB)	23.72	-3	2	6	-9	10	-2	-5	4	-4	-8	9	-4	10	-6	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.19	-5.71	-5.52	-5.45	-5.45	-5.45	-5.48	-5.48	-5.45	-5.45	-5.45	-5.45	-5.45	-5.48	-5.48
1.25 GHz	INTERCEPT (mV)	1547	185	292	423	532	658	762	870	990	1094	1200	1325	1426	1555	1653	Measured Value (mV)
	SLOPE (mV/dB)	22.58	-7	-13	5	1	15	5	0	7	-1	-8	4	-9	7	-7	Error (mV)
	LIMITED IF OUTPUT (dBm)		-7.03	-6.32	-6.00	-5.95	-5.93	-5.90	-5.90	-5.90	-5.90	-5.90	-5.90	-5.90	-5.90	-5.90	-5.90

LINEARITY(-60 TO +5 dBm) ± 0.64 dB
 FREQUENCY FLATNESS ± 4.22 dB



LIMITED IF OUTPUT MAX -4.71 dBm
 LIMITED IF OUTPUT MIN -7.03 dBm
 LIMITED IF FLATNESS ± 1.16 dB