



Planar Monolithics Industries, Inc.
 7311-F Grove Rd.
 Frederick, MD 21704
 Ph: (301) 662-5019 Fax: (301) 662-1731
www.pmi-rf.com

**SUMMARY TEST DATA
 ON
 DETECTOR LOG VIDEO AMPLIFIER**

CUSTOMER: _____
MODEL NO: SDLVA-0120-70-CONDOR
OPTION NO: _____
SERIAL NO: PL5748

JOB NO: _____
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)	23.4 mV / dB 26.0 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	± 0.60 dB	
7	LIMITED OUTPUT	-6 dBm(NOM), ±2.0 dB (MAX) @ ROOM	-4.53 dBm -6.91 dBm	
8	LIMITED OUTPUT FLATNESS	± 1.75 dB (MAX) @ ROOM	± 1.19 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)	



Planar Monolithics Industries, Inc.
7311-F Grove Rd.
Frederick, MD 21704
Ph: (301) 662-5019 Fax: (301) 662-1731
www.pmi-rf.com

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

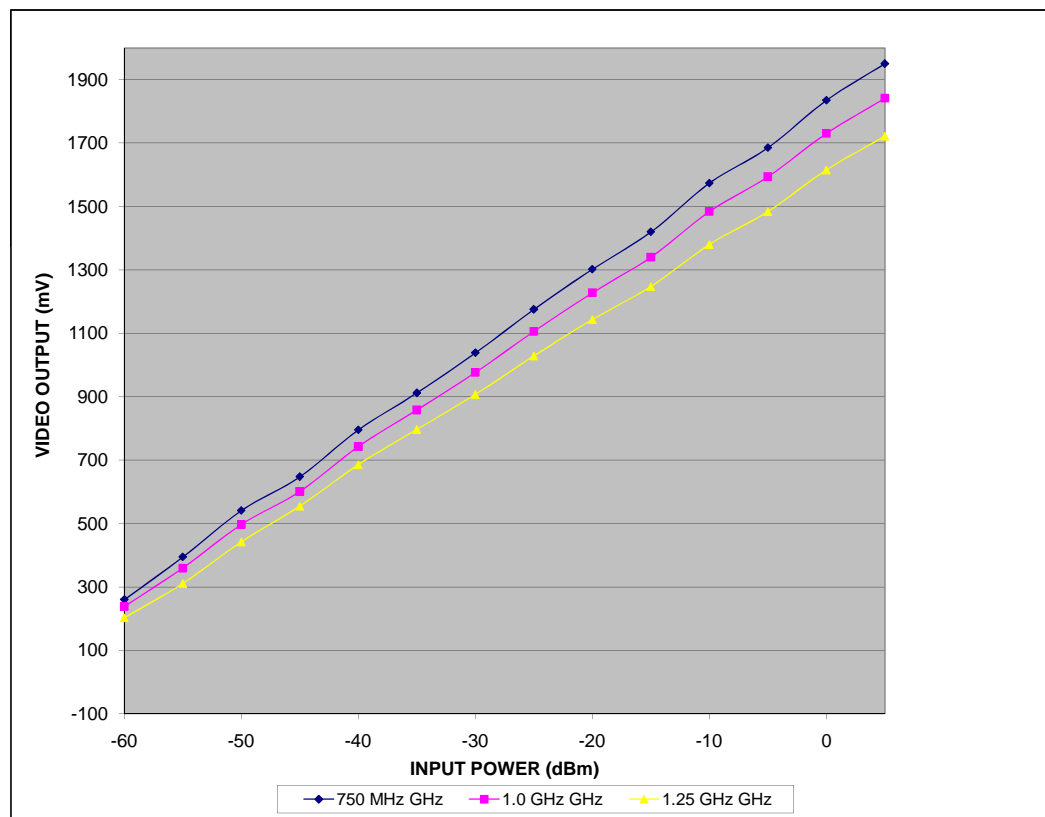
SERIAL No. : PL5748



PLANAR MONOLITHICS INDUSTRIES
 7311-F GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-662-5019 FAX: 301-662-1731
 URL: WWW.PMI-RF.COM
 EMAIL: SALES@PMI-RF.COM
 ISO 9001:2000 CERTIFIED

Frequency			-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
750 MHz	INTERCEPT (mV)	1823	260	394	541	648	796	912	1038	1175	1302	1420	1574	1686	1835	1951	Measured Value (mV)
	SLOPE (mV/dB)	25.96	-6	-1	16	-8	11	-3	-6	1	-2	-14	10	-8	12	-2	Error (mV)
	LIMITED IF OUTPUT (dBm)		-4.98	-4.74	-4.55	-4.55	-4.55	-4.55	-4.53	-4.53	-4.55	-4.53	-4.53	-4.53	-4.55	-4.53	Measured Value (mV)
1.0 GHz	INTERCEPT (mV)	1722	238	359	497	601	743	858	977	1106	1228	1340	1484	1594	1731	1842	Measured Value (mV)
	SLOPE (mV/dB)	24.71	-2	-4	10	-9	9	1	-4	1	0	-11	9	-5	8	-4	Error (mV)
	LIMITED IF OUTPUT (dBm)		-5.96	-5.54	-5.42	-5.37	-5.33	-5.33	-5.35	-5.33	-5.33	-5.33	-5.33	-5.33	-5.33	-5.33	Measured Value (mV)
1.25 GHz	INTERCEPT (mV)	1609	203	311	442	555	686	797	907	1029	1143	1248	1380	1484	1615	1722	Measured Value (mV)
	SLOPE (mV/dB)	23.39	-3	-12	3	-2	12	7	0	4	2	-11	5	-8	6	-4	Error (mV)
	LIMITED IF OUTPUT (dBm)		-6.91	-6.09	-5.79	-5.76	-5.76	-5.74	-5.72	-5.72	-5.74	-5.74	-5.74	-5.74	-5.76	-5.74	Measured Value (mV)

LINEARITY(-60 TO +5 dBm) ± 0.60 dB
 FREQUENCY FLATNESS ± 4.58 dB



LIMITED IF OUTPUT MAX -4.53 dBm
 LIMITED IF OUTPUT MIN -6.91 dBm
 LIMITED IF FLATNESS ± 1.19 dB