



**SUMMARY TEST DATA
ON
SDLVA-2G6G-70-CD-1**

Customer: _____ Tested By: J.Emperador
 SO No: _____ Temperature: +25°C
 Model No: SDLVA-2G6G-70-CD-1 Date: 12/20/2019
 Serial No: PL92328 Drawing No: 27618269 Rev: A1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2GHz to 6GHz	2GHz to 6GHz See Plot	03 12/20
2	Dynamic Range:	-65dBm to 5dBm	-65dBm to 5dBm See Plot	
3	Log Linearity:	± 1.75 dB Max.	+1.18 dB See Plot	
4	Minimum Logging Range:	-70 dBm	-70 dBm	
5	Maximum Logging Range:	+5 dBm	+5 dBm	
6	Log Accuracy:	±1.75 dB Max.	+1.24 dB See Plot	
7	Frequency Flatness:	±1.2 dB	+/-0.80 dB See Plot	
8	Maximum RF Output:	+5 dBm Max	+4.89 dBm See Plot	
9	RF Gain:	70 dB TYP	70 dB	
10	Maximum RF Input Power:	+10 dBm CW	Pass	
11	Coupling:	DC	Pass	
12	Rise Time:	15 ns Typ, 25 ns Max.	4.5 ns	✓
13	Fall Time:	25 ns Typ, 30 ns Max.	17.8 ns	03 12/20



**SUMMARY TEST DATA
ON
SDLVA-2G6G-70-CD-1**

14	Max Video Output:	3.5 Volts	2.977 V See Plot	03 12/20
15	DC Offset:	0.15 V Nominal	0.100 V	↓
16	Log Slope:	40 mV/dB Nominal	38.2 mV/dB See Plot	
17	Log Slope Variation With Frequency:	± 1.5 mV/dB Typ.	+/- 1.0 mV/dB	
18	Log Slope Variation With Temperature:	± 1.2 mV/dB Typ.	+/- 1.0 mV/dB	
19	Video Load:	50 Ω $\pm$ 10%	49.7 Ω	
20	DC Power Supply:	+12V to +15V @ 300mA Typ -12V to -15V @ 190mA Typ	+12V to +15V @315mA -12V to -15V @103 mA	03 12/20

QA/QC Approval: A. Zimmerman Date: 12-20-2019



SUMMARY TEST DATA ON SDLVA-2G6G-70-CD-1

LOG TRANSFER WITH FREQUENCY @ +25°C
MODEL: SDLVA-2G6G-70-CD-1
TESTED BY: E.BENSON
TEST DATE: 12/20/2019
SERIAL NO: V000977122020192328
TEST TEMP: +25C



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

Frequency

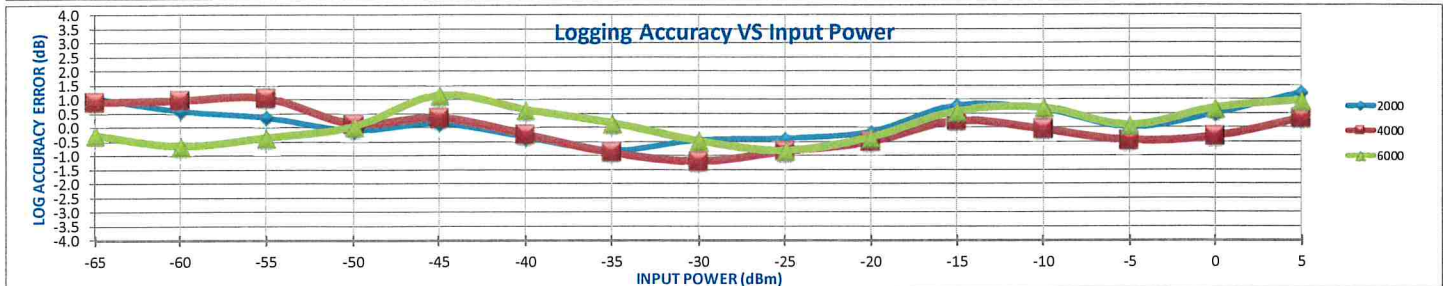
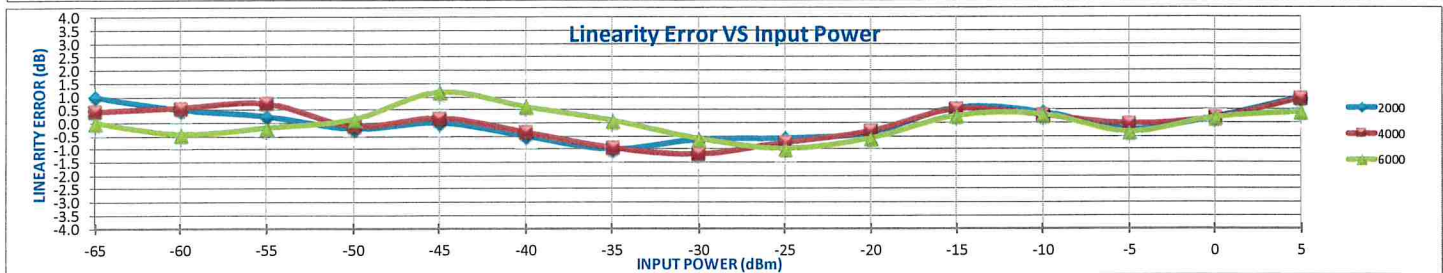
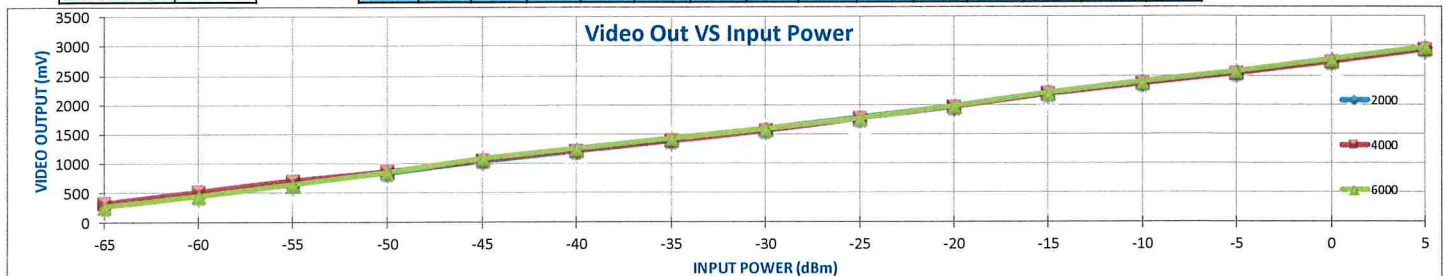
2 GHz	INTERCEPT (mV)	2753
	SLOPE (mV/dB)	37.8

4 GHz	INTERCEPT (mV)	2723
	SLOPE (mV/dB)	37.2

6 GHz	INTERCEPT (mV)	2760
	SLOPE (mV/dB)	38.2

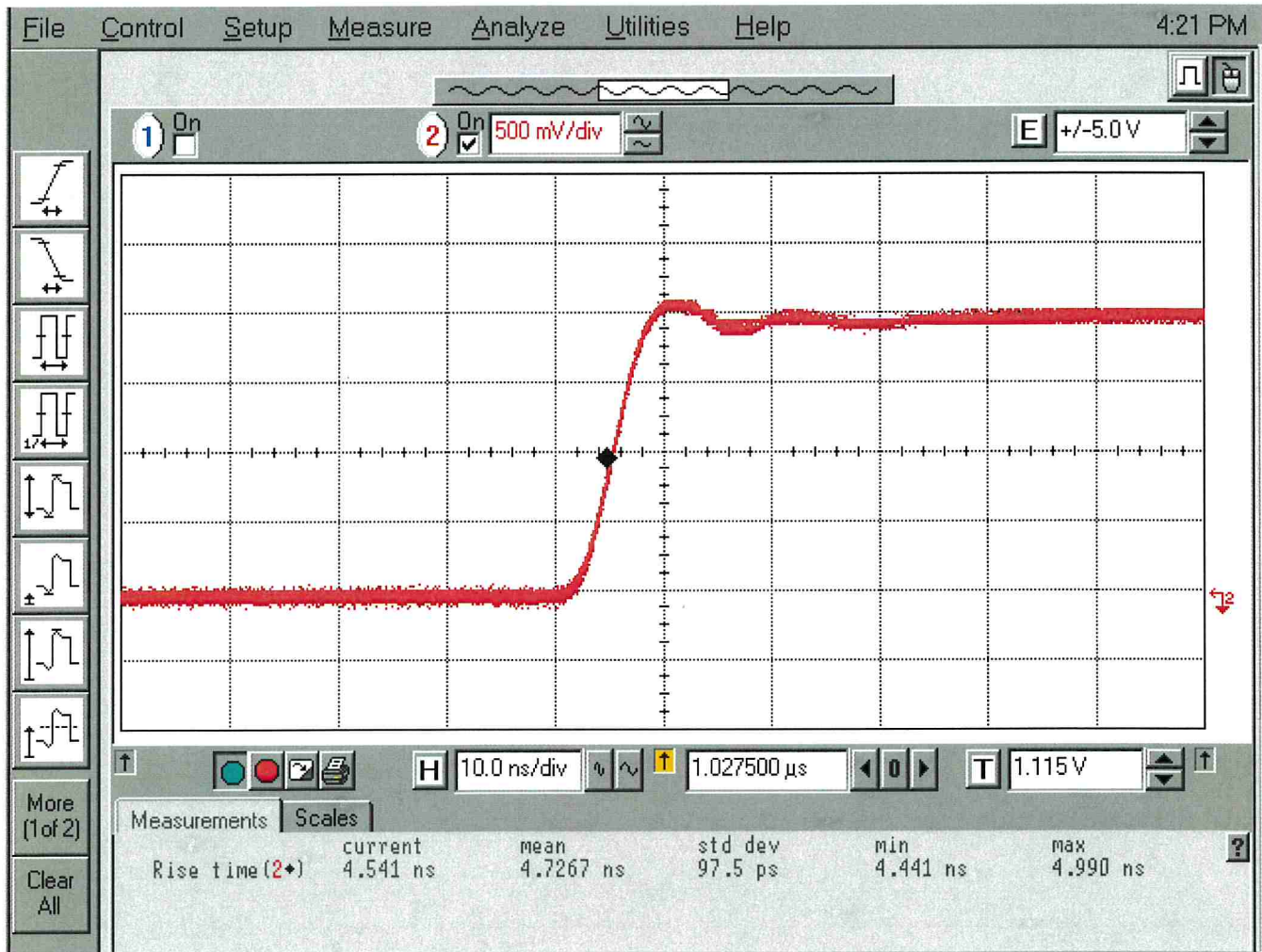
Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	330	501	681	852	1050	1220	1390	1593	1784	1981	2206	2389	2553	2760	2977	Measured Value (mV)
	37	18	9	-9	0	-19	-39	-25	-23	-15	21	14	-11	7	35	Error (mV)
	0.97	0.49	0.24	-0.24	-0.01	-0.51	-1.02	-0.66	-0.61	-0.40	0.54	0.38	-0.28	0.19	0.92	1.02
	1.06	0.59	0.37	-0.10	0.15	-0.34	-0.84	-0.46	-0.39	-0.17	0.80	0.65	-0.01	0.48	1.24	1.24
4 GHz	324	515	707	881	1058	1224	1388	1565	1767	1968	2185	2362	2536	2730	2942	Measured Value (mV)
	16	21	27	-5	6	-13	-35	-44	-28	-12	19	10	-2	7	33	Error (mV)
	0.42	0.56	0.73	-0.13	0.17	-0.36	-0.94	-1.18	-0.74	-0.33	0.51	0.27	-0.04	0.18	0.88	1.18
	0.90	0.97	1.06	0.14	0.36	-0.24	-0.89	-1.20	-0.84	-0.51	0.24	-0.07	-0.46	-0.31	0.31	1.20
6 GHz	280	454	654	857	1088	1257	1428	1592	1768	1974	2198	2391	2556	2768	2966	Measured Value (mV)
	1	-16	-7	5	45	25	3	-23	-36	-23	10	12	-14	8	15	Error (mV)
	0.01	-0.43	-0.19	0.13	1.18	0.61	0.09	-0.61	-1.00	-0.60	0.26	0.32	-0.36	0.20	0.39	1.18
	-0.27	-0.65	-0.35	0.03	1.16	0.64	0.17	-0.48	-0.82	-0.36	0.58	0.70	0.07	0.69	0.94	1.16
Flatness +/- dB	0.70	0.80	0.70	0.10	0.50	0.50	0.50	0.40	0.20	0.20	0.30	0.40	0.30	0.50	0.50	
Max Video Output Volts	0.33	0.52	0.71	0.86	1.09	1.26	1.43	1.59	1.78	1.98	2.21	2.39	2.56	2.77	2.98	
Min Video Output Volts	0.28	0.45	0.65	0.85	1.05	1.22	1.39	1.57	1.77	1.97	2.19	2.36	2.54	2.73	2.94	





**SUMMARY TEST DATA
ON
SDLVA-2G6G-70-CD-1**





**SUMMARY TEST DATA
ON
SDLVA-2G6G-70-CD-1**





**SUMMARY TEST DATA
ON
SDLVA-2G6G-70-CD-1**

Saturated Output Power vs Frequency

