



**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: 012/20/2019
 Serial No: PL92330 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.	+1.11 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.	+1.15 dB See Plot	
7	Frequency Flatness:	±1.2 dB	+/-0.80 dB See Plot	
8	Maximum RF Output:	+5 dBm Max	+4.65dBm 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.	3.72 ns	↓
13	Fall Time:	25 ns Typ, 30 ns Max.	16.5 ns	03 12/20



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14	Max Video Output:	3.5 Volts	2.868 V See Plot	<i>B</i> 12-20
15	DC Offset:	0.15 V Nominal	0.100 V	<i>1</i> ↓
16	Log Slope:	40 mV/dB Nominal	35.6 mV/dB See Plot	
17	Log Slope Variation With Frequency:	± 1.5 mV/dB Typ.	+/- 1.1 mV/dB	
18	Log Slope Variation With Temperature:	± 1.2 mV/dB Typ.	+/- 1.05 mV/dB	
19	Video Load:	$50\Omega \pm 10\%$	49.6 Ω	
20	DC Power Supply:	+12V to +15V @ 300mA Typ -12V to -15V @ 190mA Typ	+12V to +15V @ 310mA -12V to -15V @ 99 mA	<i>B</i> 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: V000977122020192330
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)	2688
	SLOPE (mV/dB)	35.1

4 GHz	INTERCEPT (mV)	2643
	SLOPE (mV/dB)	34.4

6 GHz	INTERCEPT (mV)	2691
	SLOPE (mV/dB)	35.6

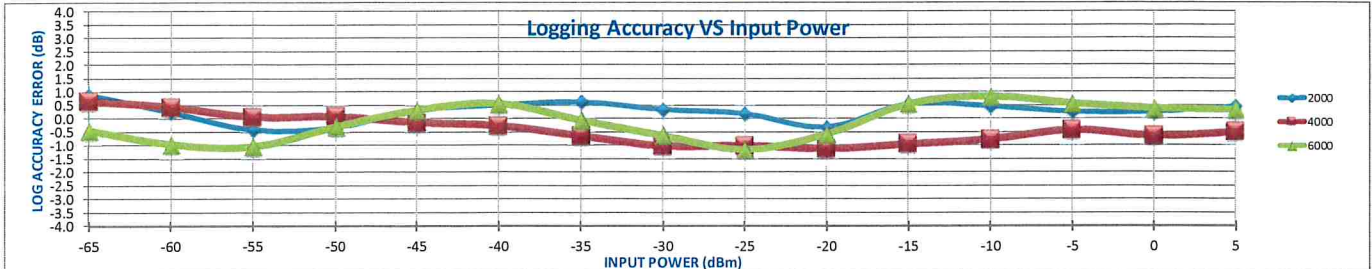
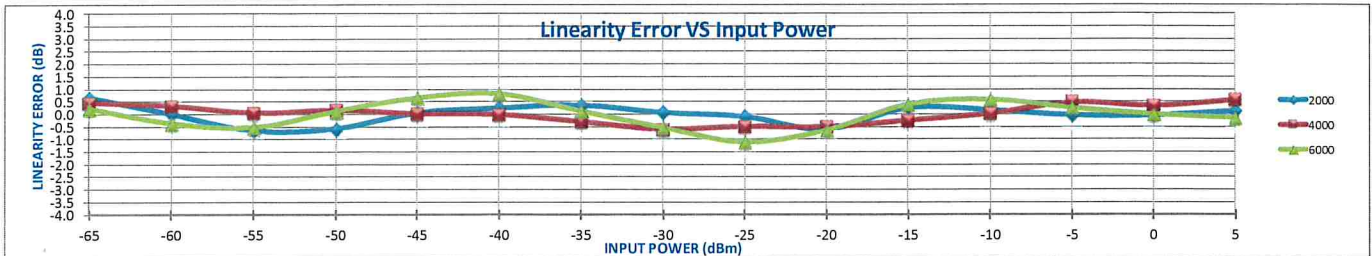
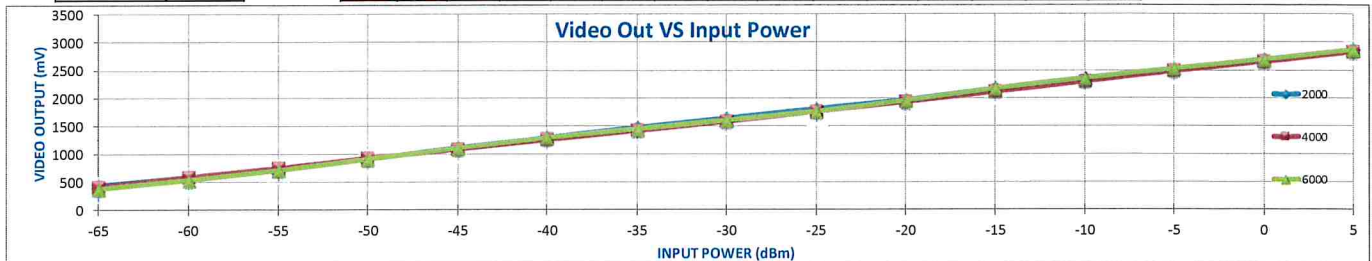
Flatness +/- dB	
Max Video Output Volts	
Min Video Output Volts	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
432	584	736	914	1112	1294	1473	1638	1808	1965	2171	2343	2511	2686	2868	
24	1	-23	-20	3	9	13	2	-3	-21	9	6	-2	-2	5	
0.69	0.02	-0.65	-0.57	0.07	0.26	0.36	0.07	-0.09	-0.61	0.26	0.16	-0.05	-0.06	0.13	
0.91	0.25	-0.41	-0.33	0.32	0.52	0.63	0.34	0.19	-0.33	0.55	0.46	0.25	0.25	0.44	
422	590	752	928	1095	1266	1428	1590	1766	1937	2118	2299	2487	2664	2834	
15	11	1	5	0	-1	-11	-21	-17	-18	-9	0	16	11	19	
0.45	0.33	0.04	0.15	0.00	-0.03	-0.32	-0.61	-0.50	-0.53	-0.27	-0.01	0.45	0.31	0.54	
0.63	0.42	0.05	0.07	-0.16	-0.28	-0.66	-1.03	-1.01	-1.13	-0.96	-0.80	-0.43	-0.66	-0.53	
385	542	714	915	1112	1296	1449	1604	1761	1956	2171	2356	2522	2691	2864	
9	-12	-19	5	24	30	5	-19	-40	-23	14	21	9	0	-5	
0.25	-0.34	-0.51	0.13	0.66	0.83	0.13	-0.52	-1.11	-0.64	0.40	0.59	0.26	0.00	-0.14	
-0.43	-0.95	-1.04	-0.30	0.32	0.57	-0.06	-0.63	-1.15	-0.59	0.55	0.83	0.57	0.39	0.33	
0.70	0.70	0.60	0.20	0.20	0.40	0.70	0.70	0.70	0.40	0.80	0.80	0.50	0.50	0.50	
0.43	0.59	0.75	0.93	1.11	1.30	1.47	1.64	1.81	1.97	2.17	2.36	2.52	2.69	2.87	
0.39	0.54	0.71	0.91	1.10	1.27	1.43	1.59	1.76	1.94	2.12	2.30	2.49	2.65	2.83	

RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
0.69	
0.91	

RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
0.61	
1.13	

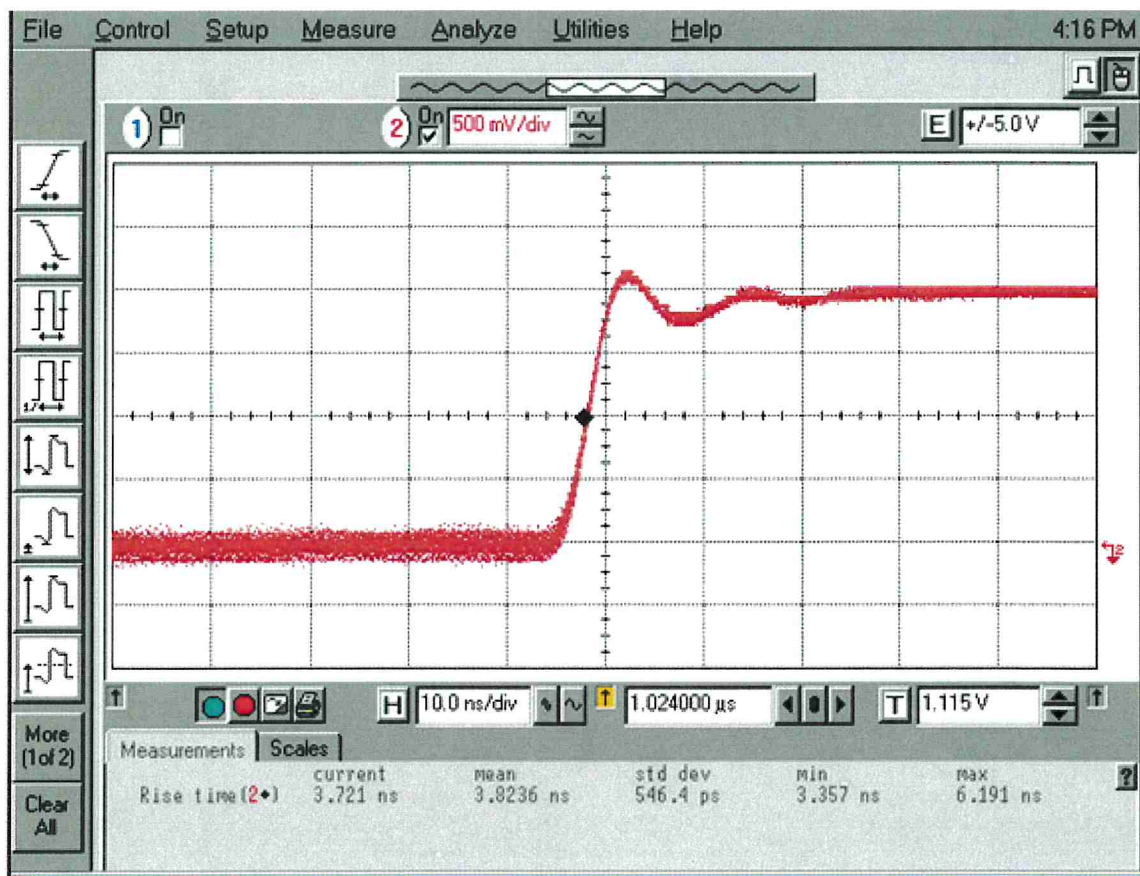
RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
1.11	
1.15	



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

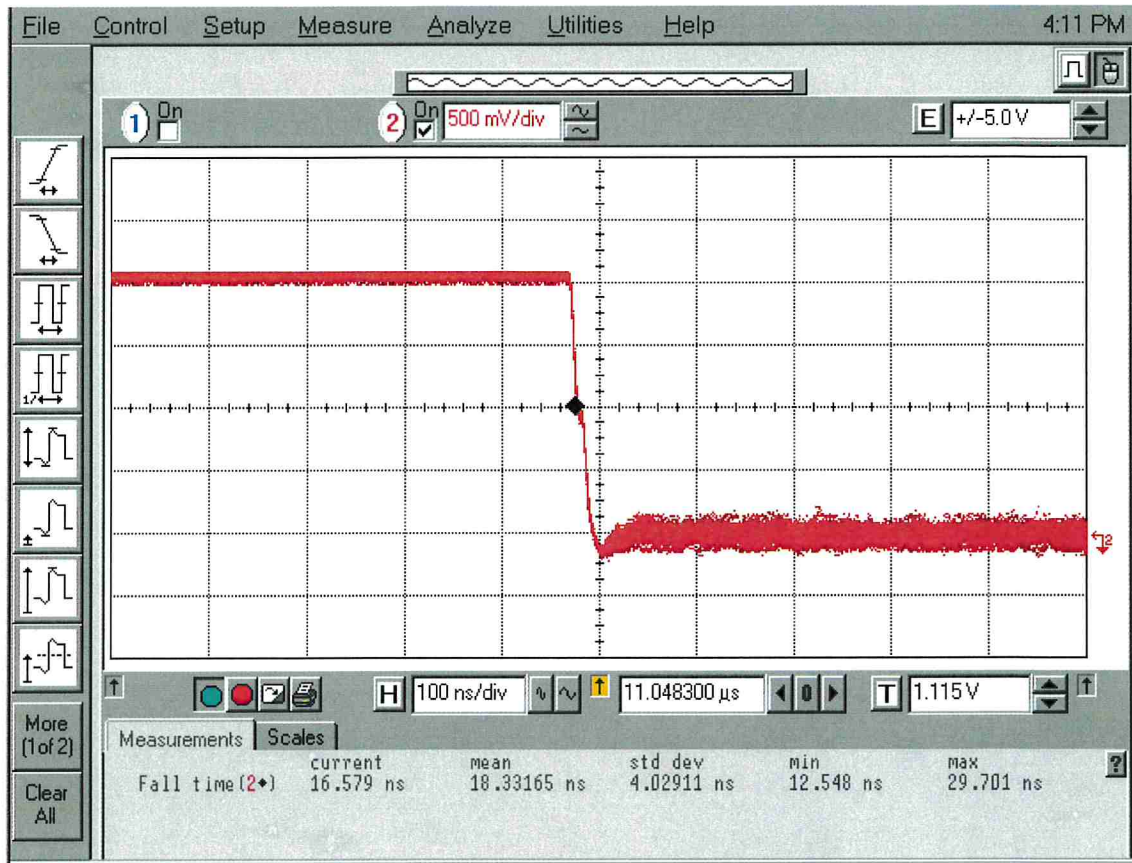


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Saturated Output Power vs Frequency

