



**SUMMARY TEST DATA  
ON  
SDLVA-250M6G-CD-1**

PL27090/1946

Customer: _____	Tested By: <u>J. Emperador</u>	
SO No: _____	Temperature: <u>+25°C</u>	
Model No: <u>SDLVA-250M6G-CD-1</u>	Date: <u>11/13/2019</u>	
Serial No: <u>PL27090/1946</u>	Drawing No: <u>27618563</u>	Rev: <u>A5</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	250 MHz to 6 GHZ	250 MHz to 6 GHZ	PMI QA1
2	Pulse Range:	30 ns to CW	30 ns to CW	
3	Input Power:	+17 dBm CW Max.	+17 dBm CW Max.	
4	Flatness:	± 2.0 dB Max.	± 1.4 dB	
5	Log Linearity	± 2.5 dB Max.	± 0.71 dB (See Plot)	
6	Log Range:	-70 to 0 dBm	-70 to 0 dBm	
7	Log Slope	25mV/dB Typ (±5%) 50 Ω Load	25.9 mV/dB (See Plot)	
8	VSWR:	2.0:1 Max.	1.94 :1 (See Plot)	
9	RF Gain:	55 dB Typ.	See Typical Characteristics	
10	RF Limiting:	>+5 dBm for -45 to 0 dBm Input Power	12.51 dBm (See Plot)	
11	Rise Time:	10 ns Max.	See Typical Characteristics	
12	Recovery Time:	60 ns Max.	See Typical Characteristics	
13	TSS:	-73 dBm Typ.	-73.5 dBm (See Plot)	
14	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 220 mA -15 VDC @ 96 mA	PMI QA1

QA/QC Approval:  PMI  
QA1 Date: 11/15/19



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**LOG SLOPE / LINEARITY PLOTS**

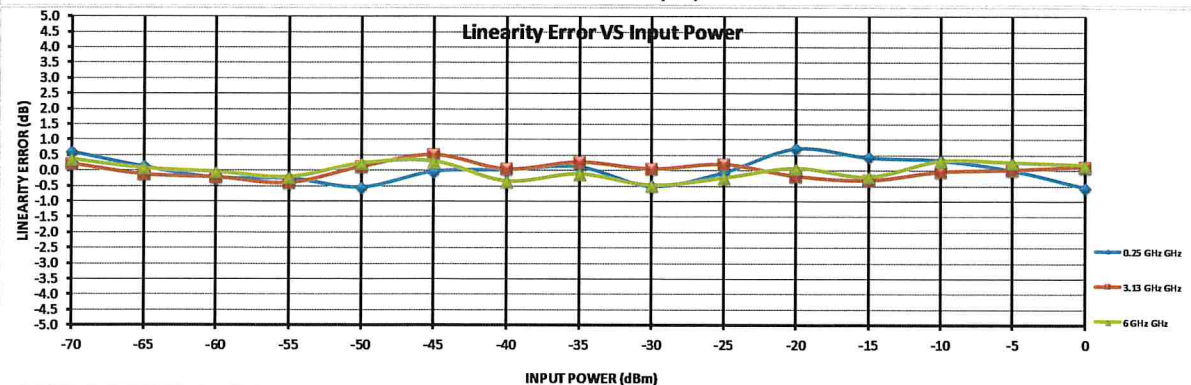
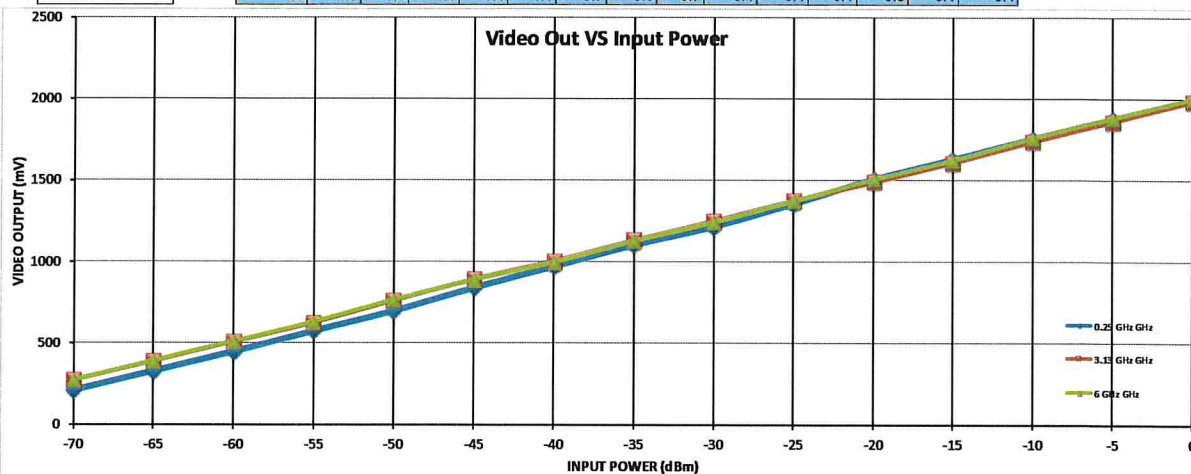
LOG TRANSFER WITH FREQUENCY @ 25 °C  
MODEL: SDLVA-250M6G-CD-1  
TESTED BY: J. Emperador  
SERIAL No. : PL27090



PLANAR MONOLITHICS INDUSTRIES  
4621 Robert J. Mathews Parkway Suite 1  
El Dorado Hills, CA 95762  
Phone 916-542-1401 Fax 301-662-1731  
WEB: WWW.PMI-RF.COM

Vos= +130 mV

Frequency		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
0.25 GHz	INTERCEPT (mV)	209	326	446	575	697	840	971	1103	1216	1357	1507	1629	1756	1877	1992	Measured Value (mV)
	SLOPE (mV/dB)	15	3	-7	-7	-15	-1	0	3	-14	-2	18	11	8	0	-15	Error (mV)
		0.60	0.11	-0.25	-0.27	-0.56	-0.04	0.02	0.11	-0.52	-0.08	0.71	0.42	0.32	0.00	-0.56	0.71
3.13 GHz	INTERCEPT (mV)	274	388	508	626	761	893	1004	1132	1249	1375	1488	1607	1736	1860	1985	Measured Value (mV)
	SLOPE (mV/dB)	5	-4	-6	-10	2	12	1	6	1	5	-5	-8	-2	0	3	Error (mV)
		0.20	-0.14	-0.24	-0.42	0.10	0.49	0.03	0.26	0.04	0.19	-0.20	-0.34	-0.06	0.00	0.11	0.49
6 GHz	INTERCEPT (mV)	271	388	509	629	764	890	998	1128	1243	1373	1505	1622	1759	1882	2004	Measured Value (mV)
	SLOPE (mV/dB)	9	2	-1	-6	5	7	-9	-3	-12	-8	2	-5	7	6	4	Error (mV)
		0.35	0.07	-0.06	-0.22	0.21	0.29	-0.36	-0.12	-0.49	-0.25	0.07	-0.22	0.30	0.26	0.17	0.49
Flatness dB		1.3	1.3	1.3	1.1	1.4	1.1	0.7	0.6	0.7	0.4	0.4	0.4	0.5	0.4	0.4	



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



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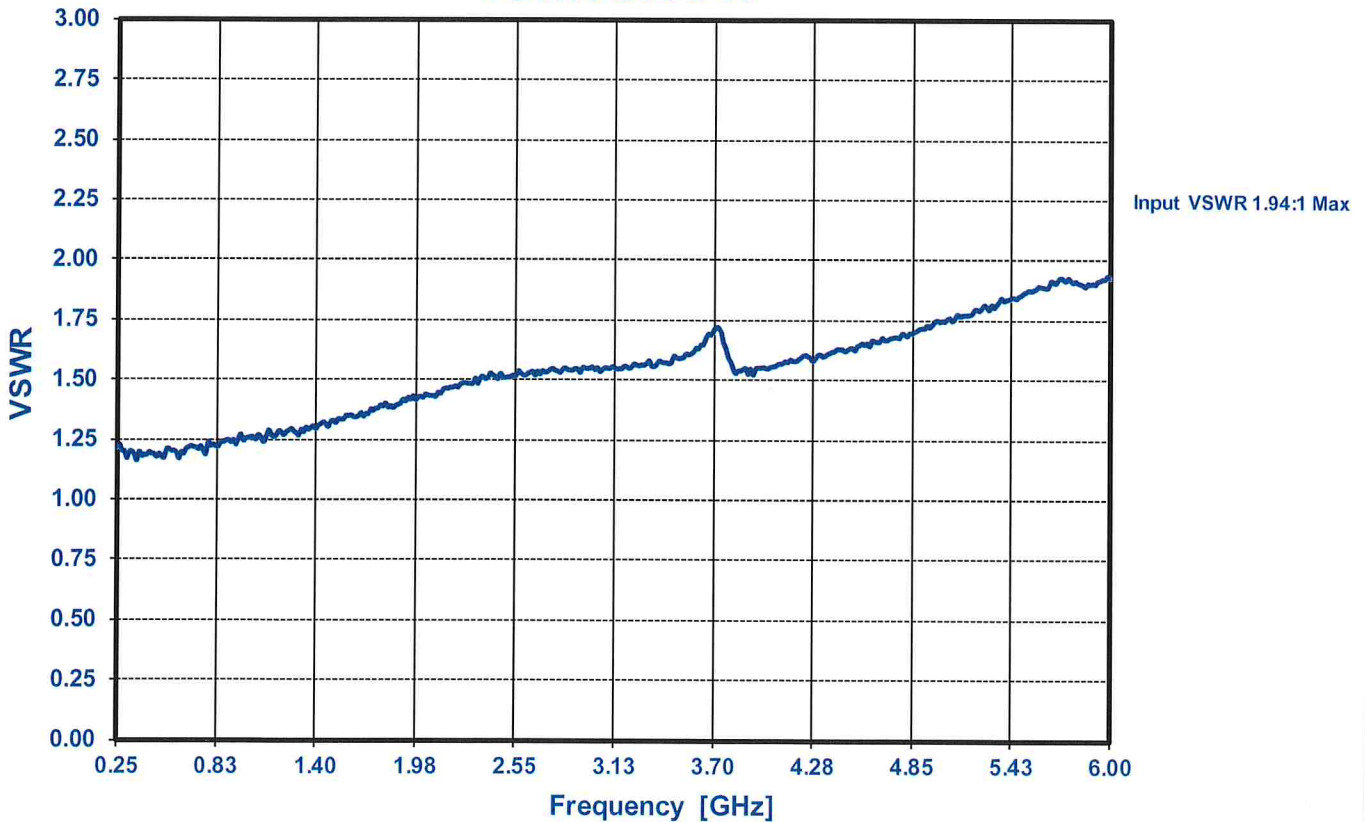
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**VSWR PLOT**

Model Number: SDLVA-500M6G-CD-1  
Serial Number: PL27090

Temperature: +25C

**VSWR GRAPH**





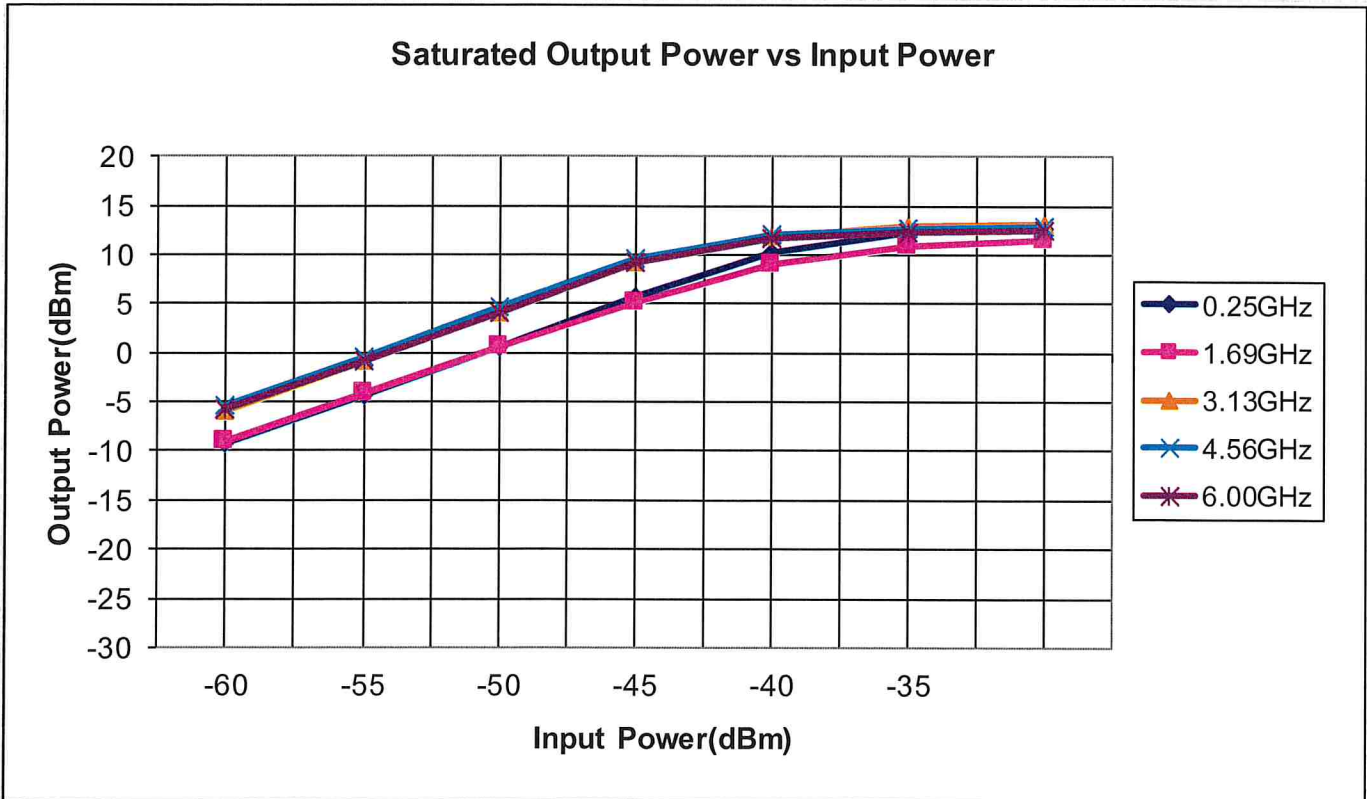
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**RF LIMITING PLOT**

MODEL: SDLVA-250M6G-CD-1  
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SERIAL NO: PL27090

**AVG PWR 12.508**





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**TSS PLOT**

