



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

Customer: _____	Tested By: <u>E.Benson</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>SDLVA-250M6G-CD-1</u>	Date: <u>06/19/2018</u>
Serial No: <u>PL22669/1825</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.	± 1.7 dB	
5	Log Linearity	± 2.5 dB Max.	+ 1.48 dB / -1.74 dB (See Plot)	
6	Log Range:	-70 to 0 dBm	-70 to 0 dBm	
7	Log Slope	25mV/dB Typ (±5%) 50 Ω Load	26.3 mV/dB (See Plot)	
8	VSWR:	2.0:1 Max.	1.95 :1 (See Plot)	
9	RF Gain:	55 dB Typ.	See Typical Characteristics	
10	RF Limiting:	>+5 dBm for -45 to 0 dBm Input Power	7.8 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.	-72.5 dBm (See Plot)	
14	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 240 mA -15 VDC @ 90 mA	PMI QA1

QA/QC Approval:  PMI  
QA1 Date: 6/19/18



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**LOG SLOPE / LINEARITY PLOTS**

LOG TRANSFER WITH FREQUENCY @ 25 °C  
MODEL: SDLVA-250M6G-CD-1  
TESTED BY: E.Benson  
SERIAL No. : PL22669

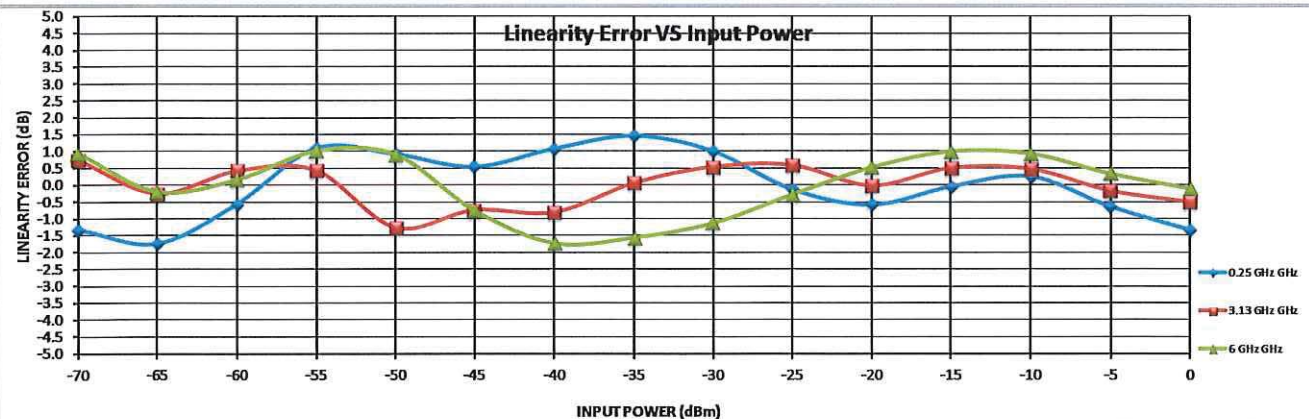
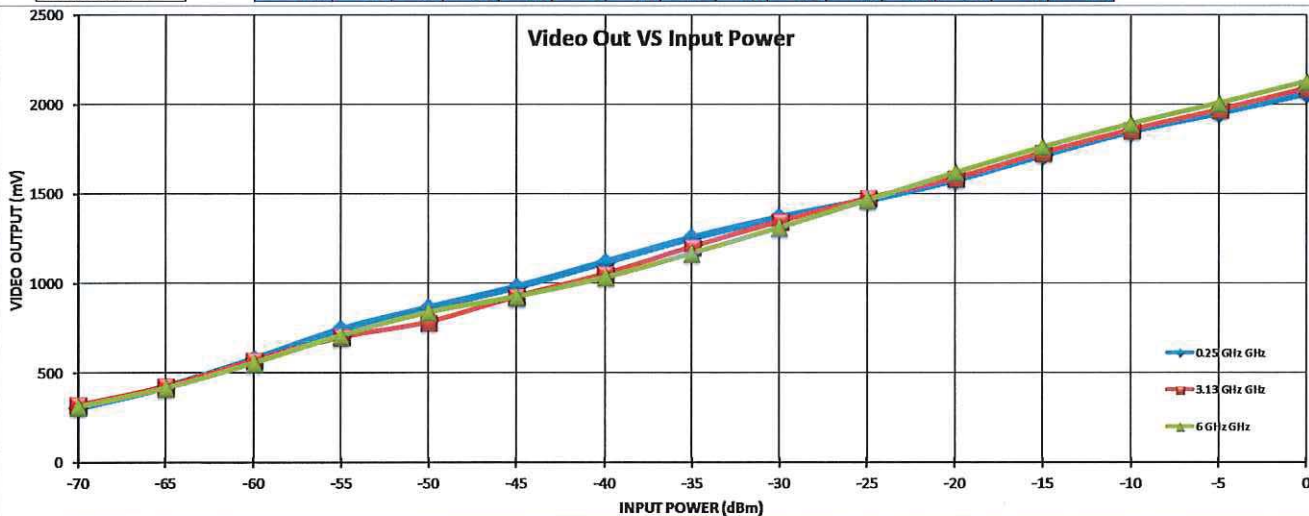
Tuesday, June 19, 2018  
8:43 AM



PLANAR MONOLITHICS INDUSTRIES  
4621 Robert J. Mathews Parkway Suite 1  
El Dorado Hills, CA 95762  
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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)	2097															Measured Value (mV)
	SLOPE (mV/dB)	25.1															Error (mV)
		307	422	577	744	865	981	1120	1255	1369	1466	1580	1719	1852	1955	2063	1.74
		-33	-44	-14	28	23	14	27	37	25	-3	-15	-1	6	-16	-34	
		-1.32	-1.74	-0.56	1.10	0.92	0.54	1.08	1.46	1.00	-0.13	-0.59	-0.05	0.25	-0.64	-1.34	
3.13 GHz	INTERCEPT (mV)	2105															Measured Value (mV)
	SLOPE (mV/dB)	25.7															Error (mV)
		323	426	572	701	786	928	1055	1206	1347	1477	1590	1732	1860	1972	2092	1.26
		19	-7	11	11	-32	-19	-21	2	14	15	0	13	12	-4	-13	
		0.74	-0.25	0.42	0.43	-1.26	-0.74	-0.81	0.06	0.54	0.59	-0.02	0.50	0.48	-0.17	-0.51	
6 GHz	INTERCEPT (mV)	2133															Measured Value (mV)
	SLOPE (mV/dB)	26.3															Error (mV)
		314	416	557	711	840	928	1034	1170	1313	1467	1620	1764	1894	2010	2130	1.73
		25	-5	4	27	24	-20	-46	-41	-30	-8	14	26	24	9	-3	
		0.93	-0.19	0.16	1.01	0.91	-0.75	-1.73	-1.56	-1.13	-0.29	0.52	0.99	0.93	0.33	-0.11	

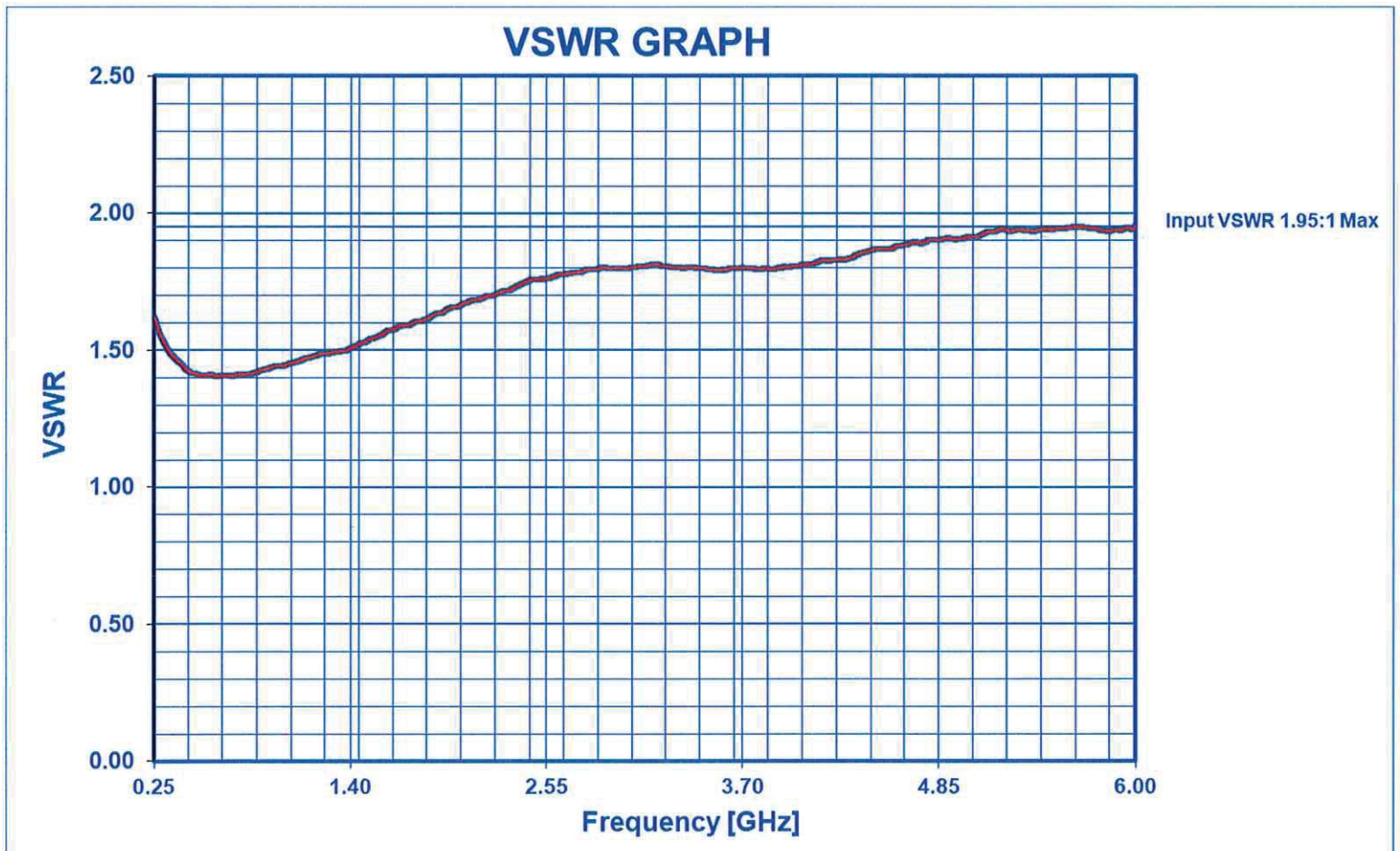
Flatness dB	0.3	0.2	0.4	0.8	1.5	1	1.7	1.7	1.1	0.2	0.8	0.9	0.8	1.1	1.3
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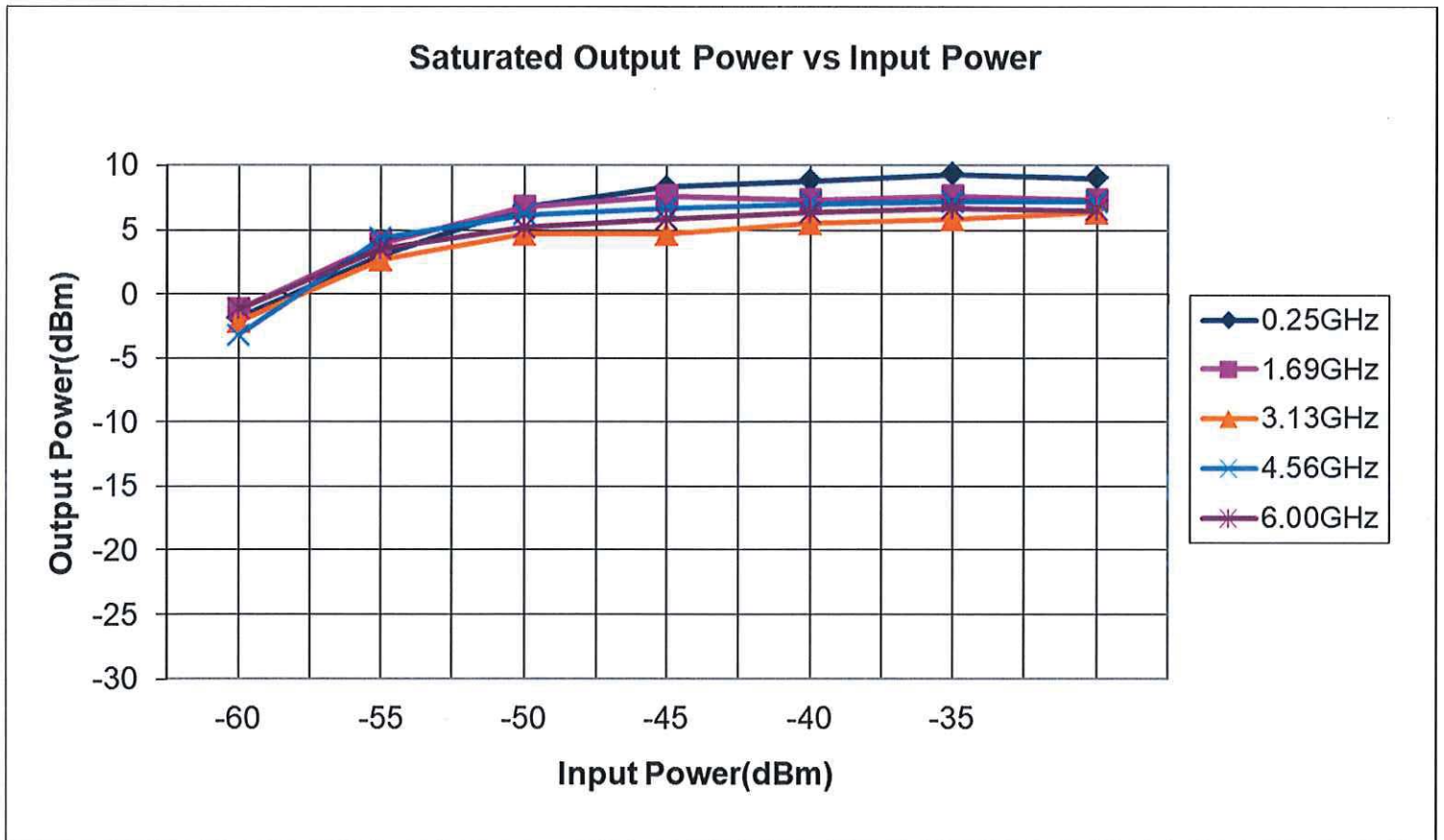
**VSWR PLOT**





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**RF LIMITING PLOT**





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**TSS PLOT**

