



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

**PL22670/1822**

Customer: _____	Tested By: <u>Simon K.</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>SDLVA-250M6G-CD-1</u>	Date: <u>05/30/2018</u>
Serial No: <u>PL22670/1822</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.	± 1.1 dB	
5	Log Linearity	± 2.5 dB Max.	± 1.30 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.	1.68 :1 (See Plot)	
9	RF Gain:	55 dB Typ.	See Typical Characteristics	
10	RF Limiting:	>+5 dBm for -45 to 0 dBm Input Power	7.73 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 dBm (See Plot)	
14	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 230 mA -15 VDC @ 95 mA	PMI QA1

QA/QC Approval:  **PMI QA1** Date: 6/7/18



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**LOG SLOPE / LINEARITY PLOTS**

LOG TRANSFER WITH FREQUENCY @ 25 °C  
MODEL: SDLVA-250M6G-CD-1  
TESTED BY: Simon K.  
SERIAL No. : PL22670

Wednesday, May 30, 2018  
4:47 PM



PLANAR MONOLITHICS INDUSTRIES  
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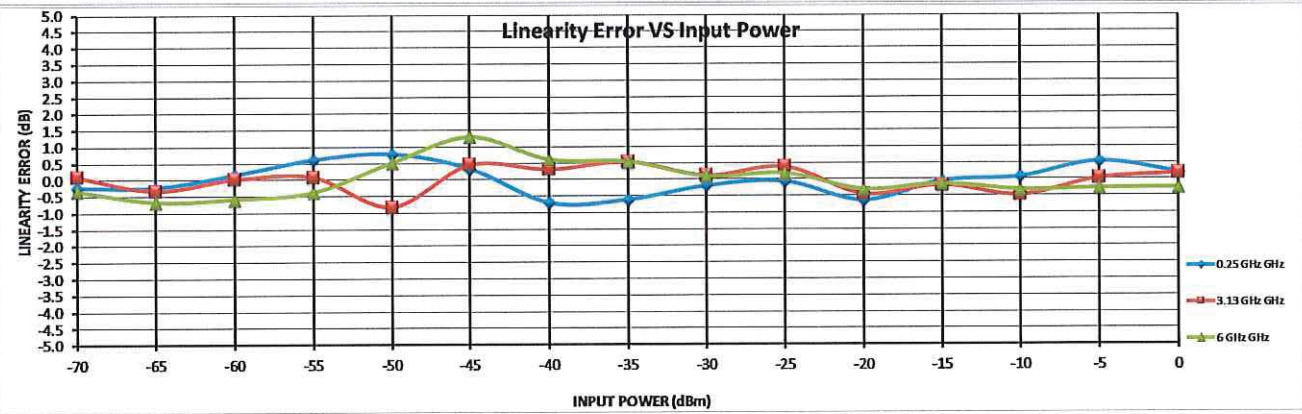
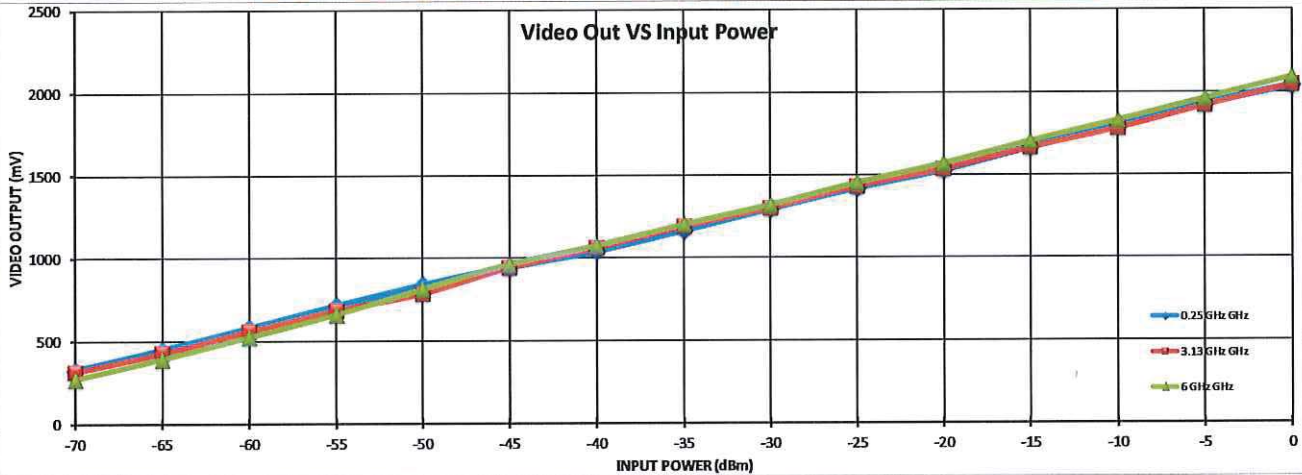
Vos = 0.099V

Frequency

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)	324 446 577 710 836 947 1044 1188 1300 1425 1533 1669 1794 1927 2041															Measured Value (mV)
	SLOPE (mV/dB)	-6 -5 4 15 19 8 -17 -15 -5 -2 -15 -1 2 13 5															Error (mV)
		-0.23 -0.22 -0.15 0.61 0.78 0.33 -0.69 -0.60 -0.19 -0.06 -0.63 -0.05 0.07 0.53 0.21															0.78
3.13 GHz	INTERCEPT (mV)	314 427 559 684 785 940 1060 1189 1302 1432 1535 1665 1781 1917 2044															Measured Value (mV)
	SLOPE (mV/dB)	2 -8 1 2 -20 11 8 13 3 10 -11 -4 -12 1 4															Error (mV)
		0.10 -0.33 0.02 0.09 -0.82 0.46 0.32 0.54 0.12 0.39 -0.44 -0.17 -0.48 0.03 0.18															0.82
6 GHz	INTERCEPT (mV)	272 393 525 660 813 963 1075 1203 1321 1453 1570 1704 1829 1960 2090															Measured Value (mV)
	SLOPE (mV/dB)	-9 -17 -15 -10 13 34 16 14 3 5 -8 -4 -8 -7 -7															Error (mV)
		-0.34 -0.67 -0.58 -0.38 0.52 1.30 0.62 0.55 0.10 0.19 -0.30 -0.14 -0.32 -0.27 -0.26															1.30

Flatness dB

1.1	1.1	1.1	1	1	0.5	0.6	0.7	0.4	0.6	0.7	0.8	1	0.9	1
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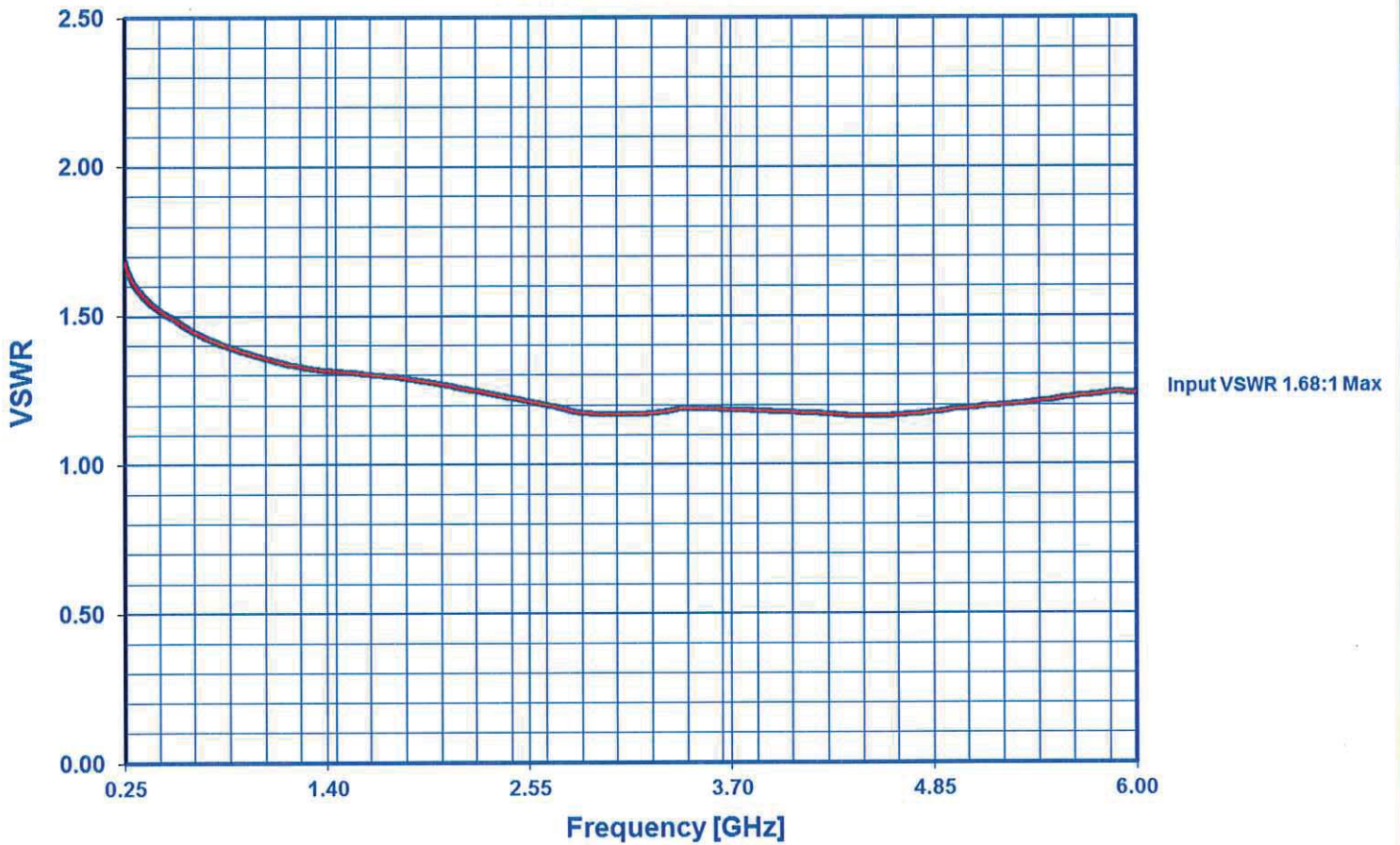


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**VSWR PLOT**

**VSWR GRAPH**



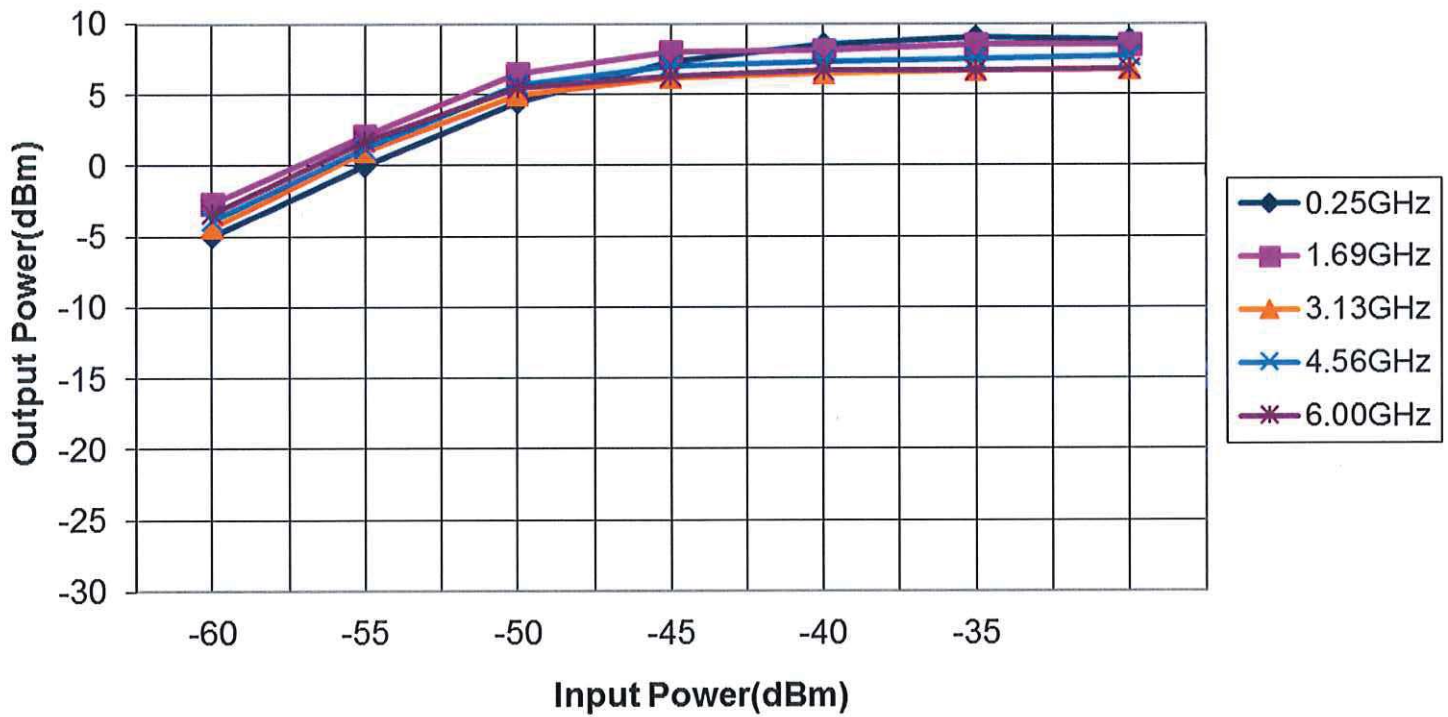


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**RF LIMITING PLOT**

**Saturated Output Power vs Input Power**





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**TSS PLOT**

