



**SUMMARY TEST DATA
ON
SDLVA-100M6G-CD-2**

PL32728/2145

Customer: _____	Tested By: <u>JOHNM</u>
SO No: _____	Temperature: <u>25°C</u>
Model No: <u>SDLVA-100M6G-CD-2</u>	Date: <u>11/11/21</u>
Serial No: <u>PL32728/2145</u>	Drawing No: <u>27641180</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC <i>PMI</i> <i>QA3</i>
1	Frequency Range:	100 MHz to 6 GHz	100 MHz to 6 GHz	
2	RF Gain (Small Signal):	55 dB Typ. (J1 to J2) @-50dBm	61 dB	
3	Video Flatness over Frequency:	± 50 mV Max	± 60.5 mV See Plot #1	
4	TSS:	-73 dBm Typ., -71 dBm Max (25°C)	-73 dBm See Plot #2	
5	VSWR:	2.0:1 (J1 VSWR)	1.40:1 See Plot #3	
6	PSAT:	+13 dBm Typ. (J2)	+13.37 dBm See Plot #4	
7	Power Input:	+17 dBm CW Max (J1)	Pass	
8	Log Slope:	25 mV/dB Typ. (J3) (50Ω Load) @ 25°C	24.4 mV/dB Avg. See Plots #1	
9	Log Range:	-70 to 0 dBm	-70 TO 0 dBm	
10	Log Linearity	±2.5 dB (J3) @ 25°C	± 1.73 dB See Plot #1	
11	DC Offset:	50 ± 50 mV (J3)	31 mV	
12	Pulse Range:	100 ns to CW	100 ns	
13	Rise Time:	30 ns (Max)	58 ns	
14	Recovery Time:	200 ns (Max)	1000 ns	<i>w/acceptance</i>
15	Harmonics:	15 dBc Min -70 to 0 dBm	-25 dBc	<i>w/acceptance</i>
16	DC Supply:	+15 VDC @ 350 mA -15V DC @ 180 mA	+15 VDC @ 230 mA -15 VDC @ 90 mA	

QA/QC Approval: *[Signature]* Date: 11-16-21



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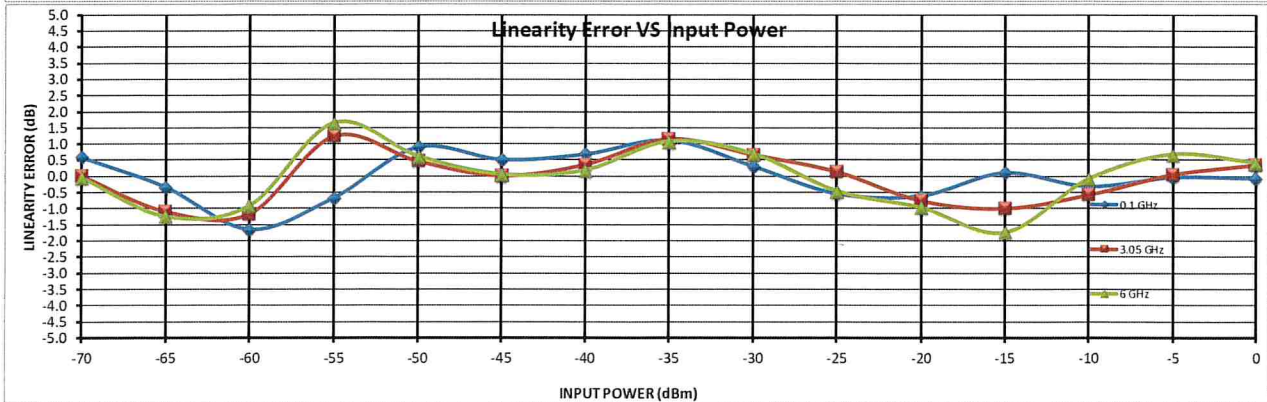
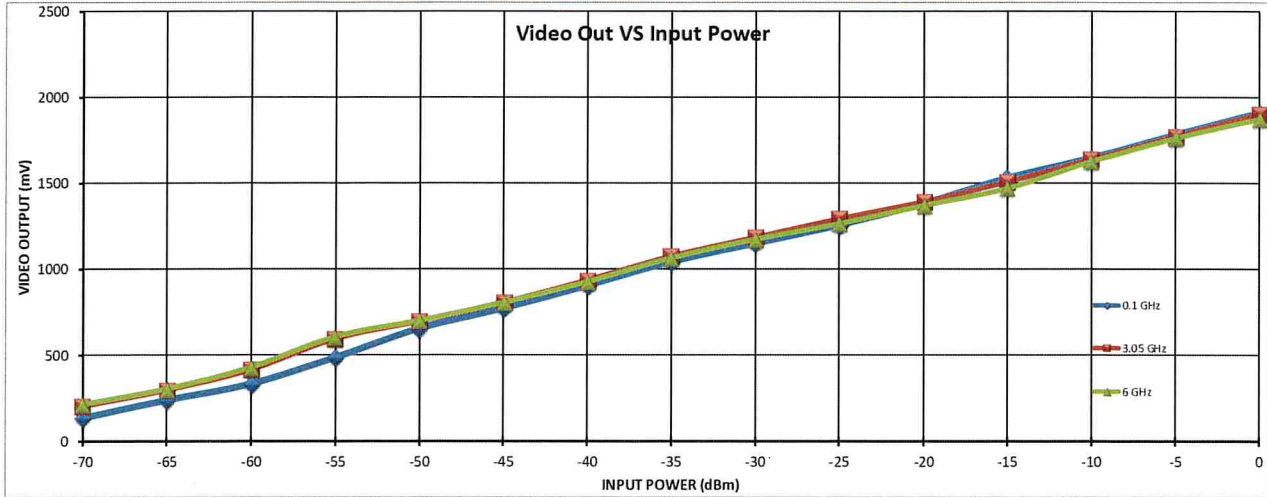
MODEL: SDLVA-100M6G-CD-2
SERIAL NO: PL32728
DATE: 8-9-21
TESTED BY: JOHNM
Test Temp: +25°C

LOG SLOPE / LINEARITY PLOT #1



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

Frequency		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
0.1 GHz	INTERCEPT (mV)	135	239	333	486	654	772	904	1043	1150	1256	1382	1528	1645	1780	1907	Measured Value (mV)
	SLOPE (mV/dB)	15	-9	-42	-17	23	13	18	29	8	-14	-16	3	-8	-1	-2	Error (mV)
		0.59	-0.34	-1.66	-0.67	0.90	0.52	0.69	1.12	0.31	-0.54	-0.61	0.10	-0.32	-0.04	-0.07	1.66
3.05 GHz	INTERCEPT (mV)	203	297	416	595	697	807	936	1076	1185	1293	1392	1507	1638	1774	1902	Measured Value (mV)
	SLOPE (mV/dB)	1	-26	-28	30	11	1	9	28	16	4	-18	-24	-14	1	9	Error (mV)
		0.03	-1.08	-1.16	1.25	0.48	0.03	0.37	1.16	0.68	0.15	-0.75	-0.99	-0.57	0.06	0.36	1.25
6 GHz	INTERCEPT (mV)	213	303	429	607	701	806	927	1066	1175	1266	1372	1472	1629	1765	1877	Measured Value (mV)
	SLOPE (mV/dB)	-1	-29	-21	39	15	2	5	25	16	-11	-23	-41	-2	16	10	Error (mV)
		-0.04	-1.23	-0.90	1.64	0.62	0.07	0.19	1.08	0.69	-0.45	-0.96	-1.73	-0.08	0.68	0.42	1.73
Avg. Slope: 24.4 mV/dB		1.6	1.3	2	2.5	1	0.7	0.7	0.7	0.7	0.8	0.4	1.2	0.3	0.3	0.6	
Flatness dB: ±2.5 dB																	

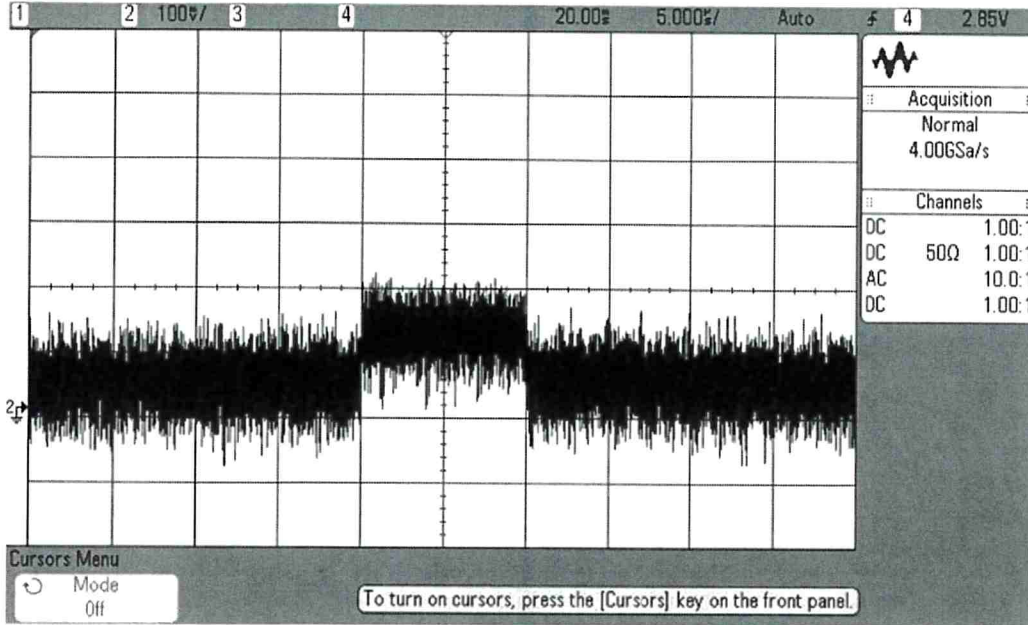




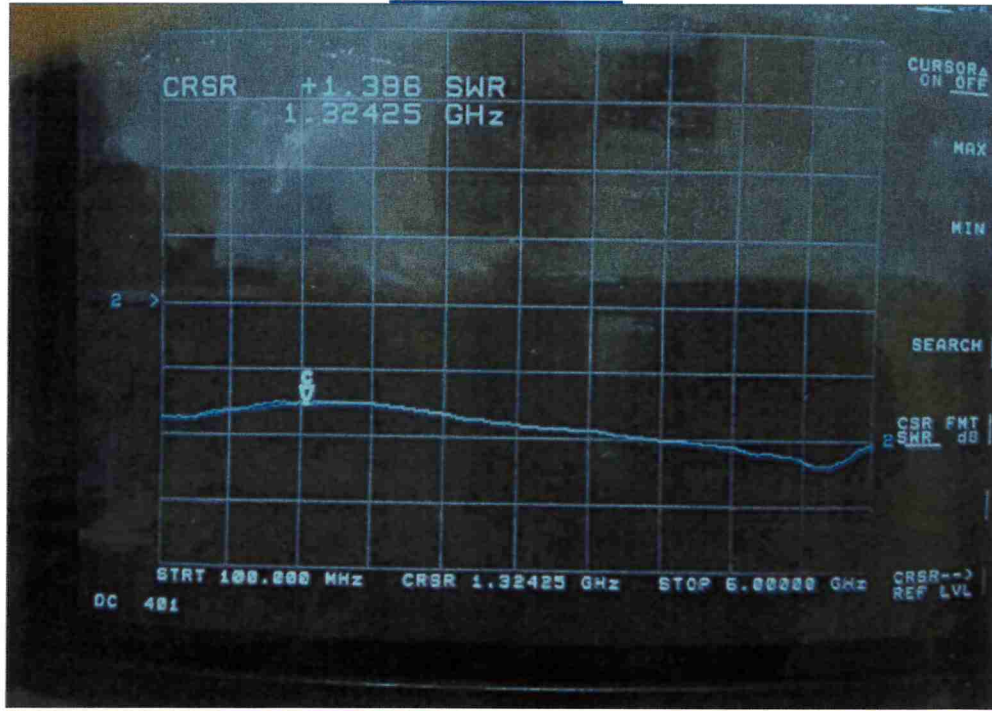
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TSS PLOT #2



VSWR PLOT #3





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PSAT PLOT #4

