



**SUMMARY TEST DATA  
ON  
SDLVA-6G18G-CD-2-OPT218-NRF**

**PL20007/1641**

<b>Customer:</b> _____	<b>Tested By:</b> <u>S.Baughman</u>
<b>SO No:</b> <u>SO16-213-P-PE</u>	<b>Temperature:</b> <u>+25°C</u>
<b>Model No:</b> <u>SDLVA-6G18G-CD-2-OPT218-NRF</u>	<b>Date:</b> <u>10/25/16</u>
<b>Serial No:</b> <u>PL20007/1641</u>	<b>Drawing No:</b> <u>27630483</u> <b>Rev:</b> <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency:	2.0 GHz – 18.0 GHz	<b>2.0 GHz – 18.0 GHz</b> See Plots	
2	Flatness:	± 2.0 dB Maximum	<b>± 1.56 dB 25°C</b> See Plots	
3	TSS:	-70 dBm Minimum	<b>-74.0 dBm</b>	
4	VSWR:	2.0:1 (Input)	<b>1.76:1 (Input)</b>	
5	Power Input:	+17 dBm CW Maximum	<b>Pass</b>	
6	RF Out:	Not Connected	<b>Not Connected</b>	
7	Log Slope	25 mV/dB (±10%) 50Ω	<b>24.8 mV/dB</b> See Plot	
8	Log Range:	-70 to +5 dBm	<b>-70 to +5 dBm</b> See Plots	
9	Log Linearity:	±2.5 dB (-40°C - +85°C)	<b>± 1.97 dB</b> See Plot	
10	Pulse Range:	30 ns to CW	<b>Pass</b>	
11	Rise Time:	10 ns (6 ns Typical)	<b>7.5 ns</b>	
12	Recovery Time:	60 ns Typical	<b>46.5 ns</b>	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	<b>+15V or +12V @ 260 mA</b> <b>-15V or -12V @ 97 mA</b>	

**QA/QC Approval:** \_\_\_\_\_ **Date:** \_\_\_\_\_



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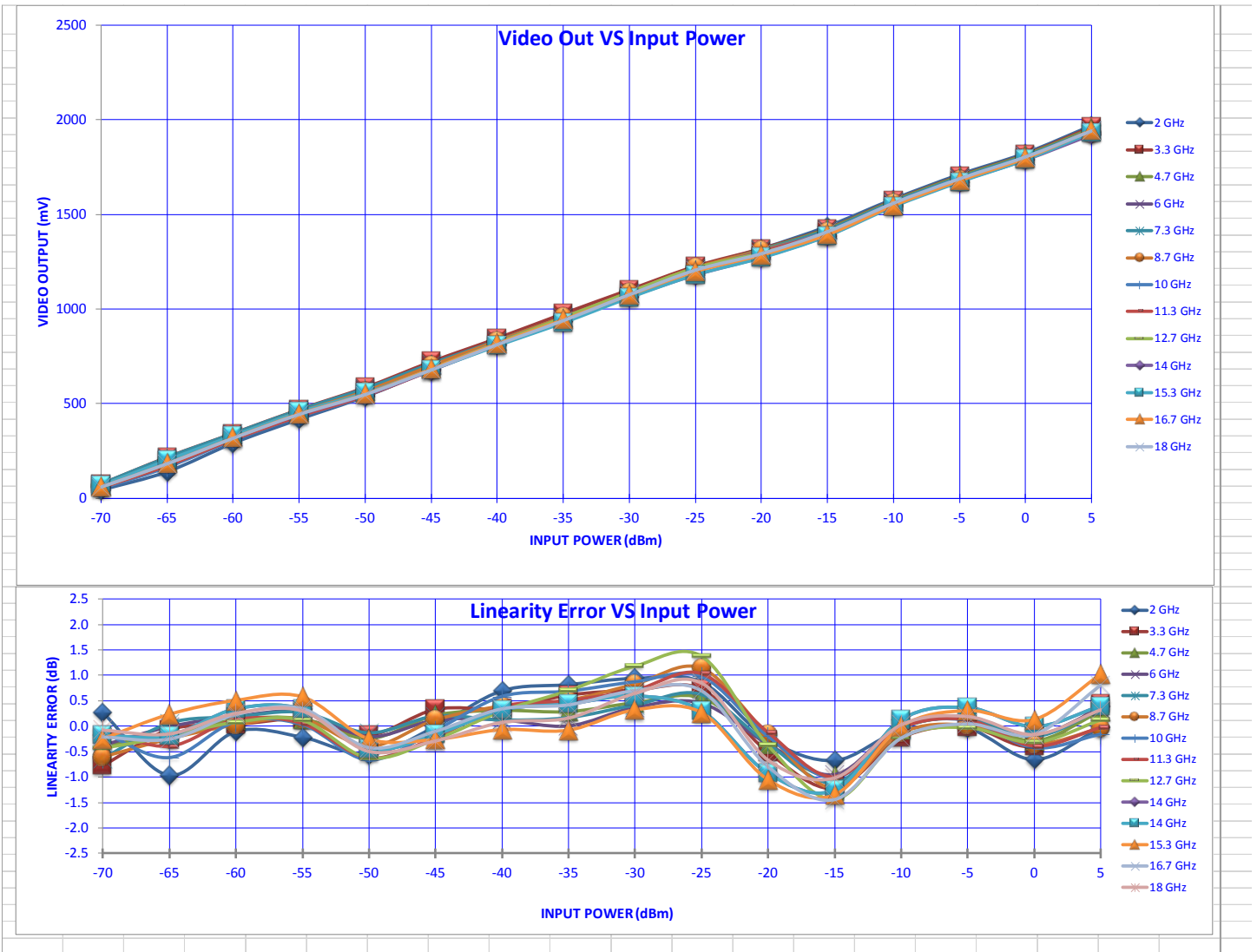
PL20007/1641

LOG TRANSFER VS FREQUENCY			Tuesday, October 25, 2016																
MODEL: SDLVA-6G18G-CD-2-OPT218-NRF			 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																
TESTED BY: J.Emperador																			
DATE: 10/25/16																			
SERIAL NO: PL20007 +25C																			
Frequency			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	1839	42	139	290	416	536	679	826	958	1090	1217	1317	1435	1579	1709	1822	1967	Measured Value (mV)
	SLOPE (mV/dB)	25.8	7	-25	-3	-6	-14	0	18	21	24	22	-7	-17	-2	-1	-17	-1	Error (mV)
			0.27	-0.96	-0.10	-0.22	-0.56	-0.01	0.69	0.82	0.94	0.87	-0.25	-0.67	-0.09	-0.04	-0.66	-0.03	LINEARITY ERROR (dB)
3.3 GHz	INTERCEPT (mV)	1825	76	217	343	469	585	721	845	975	1101	1225	1318	1424	1572	1701	1815	1959	Measured Value (mV)
	SLOPE (mV/dB)	24.7	-19	-2	1	3	-4	8	9	15	18	18	-12	-30	-6	0	-10	11	Error (mV)
			-0.77	-0.07	0.03	0.13	-0.17	0.33	0.35	0.61	0.71	0.73	-0.51	-1.21	-0.23	0.00	-0.39	0.44	LINEARITY ERROR (dB)
4.7 GHz	INTERCEPT (mV)	1820	66	196	328	453	568	704	831	955	1084	1211	1313	1422	1570	1699	1813	1952	Measured Value (mV)
	SLOPE (mV/dB)	24.9	-10	-4	3	3	-6	5	8	7	11	14	-9	-24	-1	3	-7	7	Error (mV)
			-0.39	-0.17	0.12	0.14	-0.25	0.21	0.31	0.28	0.46	0.55	-0.35	-0.98	-0.04	0.13	-0.29	0.28	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1813	69	202	331	457	569	701	825	946	1079	1205	1309	1418	1566	1694	1809	1946	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-9	0	5	7	-5	3	3	0	9	11	-9	-24	0	4	-4	9	Error (mV)
			-0.38	-0.01	0.19	0.28	-0.21	0.12	0.12	0.00	0.37	0.45	-0.35	-0.95	0.02	0.18	-0.18	0.35	LINEARITY ERROR (dB)
7.3 GHz	INTERCEPT (mV)	1813	77	217	343	468	581	712	833	957	1086	1214	1313	1417	1566	1694	1808	1944	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-16	1	4	7	-3	5	3	4	10	15	-9	-27	-1	4	-5	8	Error (mV)
			-0.64	0.06	0.18	0.27	-0.13	0.20	0.12	0.17	0.41	0.62	-0.35	-1.12	-0.05	0.15	-0.21	0.33	LINEARITY ERROR (dB)
8.7 GHz	INTERCEPT (mV)	1808	68	200	330	456	566	702	832	958	1089	1220	1311	1408	1558	1685	1799	1930	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-15	-6	1	3	-10	3	10	13	20	28	-4	-30	-3	0	-9	-1	Error (mV)
			-0.61	-0.25	0.02	0.14	-0.40	0.12	0.40	0.51	0.83	1.14	-0.16	-1.23	-0.14	0.02	-0.36	-0.04	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1812	53	166	309	433	541	681	823	951	1081	1209	1305	1410	1560	1689	1801	1933	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-3	-15	2	1	-17	-2	15	17	22	24	-5	-25	-1	3	-11	-4	Error (mV)
			-0.12	-0.62	0.08	0.03	-0.67	-0.08	0.58	0.68	0.87	0.97	-0.20	-1.01	-0.03	0.11	-0.42	-0.16	LINEARITY ERROR (dB)
11.3 GHz	INTERCEPT (mV)	1805	54	171	309	432	540	675	815	943	1073	1206	1302	1405	1554	1683	1795	1929	Measured Value (mV)
	SLOPE (mV/dB)	25	-2	-10	3	1	-16	-6	9	13	18	26	-3	-25	-1	3	-10	-1	Error (mV)
			-0.08	-0.40	0.13	0.05	-0.63	-0.22	0.38	0.50	0.71	1.03	-0.13	-1.00	-0.04	0.12	-0.39	-0.03	LINEARITY ERROR (dB)
12.7 GHz	INTERCEPT (mV)	1799	64	193	323	447	552	684	821	954	1089	1217	1297	1394	1547	1675	1791	1925	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-11	-5	2	3	-15	-6	7	17	29	34	-9	-35	-5	-1	-8	3	Error (mV)
			-0.43	-0.20	0.08	0.12	-0.62	-0.26	0.30	0.70	1.18	1.38	-0.37	-1.43	-0.22	-0.03	-0.32	0.12	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1787	59	182	318	441	545	675	810	936	1063	1179	1272	1387	1544	1673	1787	1920	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-5	-5	8	8	-11	-4	8	11	15	7	-23	-31	3	9	0	10	Error (mV)
			-0.18	-0.19	0.34	0.33	-0.45	-0.17	0.31	0.43	0.59	0.30	-0.92	-1.25	0.12	0.36	-0.01	0.39	LINEARITY ERROR (dB)
15.3 GHz	INTERCEPT (mV)	1787	69	203	332	456	558	680	807	929	1061	1182	1272	1387	1542	1672	1790	1934	Measured Value (mV)
	SLOPE (mV/dB)	24.5	-6	6	12	14	-6	-6	-2	-2	8	6	-26	-33	0	7	3	25	Error (mV)
			-0.25	0.23	0.50	0.58	-0.25	-0.26	-0.07	-0.08	0.32	0.26	-1.05	-1.35	-0.01	0.30	0.13	1.02	LINEARITY ERROR (dB)
16.7 GHz	INTERCEPT (mV)	1802	60	183	319	446	551	683	818	944	1075	1199	1286	1394	1548	1679	1798	1946	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-5	-6	6	9	-10	-2	9	10	17	17	-20	-36	-6	1	-4	20	Error (mV)
			-0.21	-0.25	0.23	0.35	-0.42	-0.10	0.34	0.42	0.70	0.70	-0.79	-1.44	-0.23	0.05	-0.16	0.81	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1809	59	182	317	443	548	678	812	939	1076	1206	1293	1409	1560	1689	1805	1942	Measured Value (mV)
	SLOPE (mV/dB)	25	-2	-4	6	8	-12	-2	9	16	21	-17	-25	-1	5	-4	8	Error (mV)	
			-0.07	-0.15	0.26	0.30	-0.49	-0.29	0.08	0.16	0.65	0.85	-0.66	-1.02	0.03	0.19	-0.16	0.33	LINEARITY ERROR (dB)
	Average Slope (mV)	24.8																	
	Flatness	± dB	0.7	1.56	1.06	1.06	0.98	0.92	0.76	0.92	0.8	0.92	0.92	0.96	0.74	0.74	0.7	0.94	



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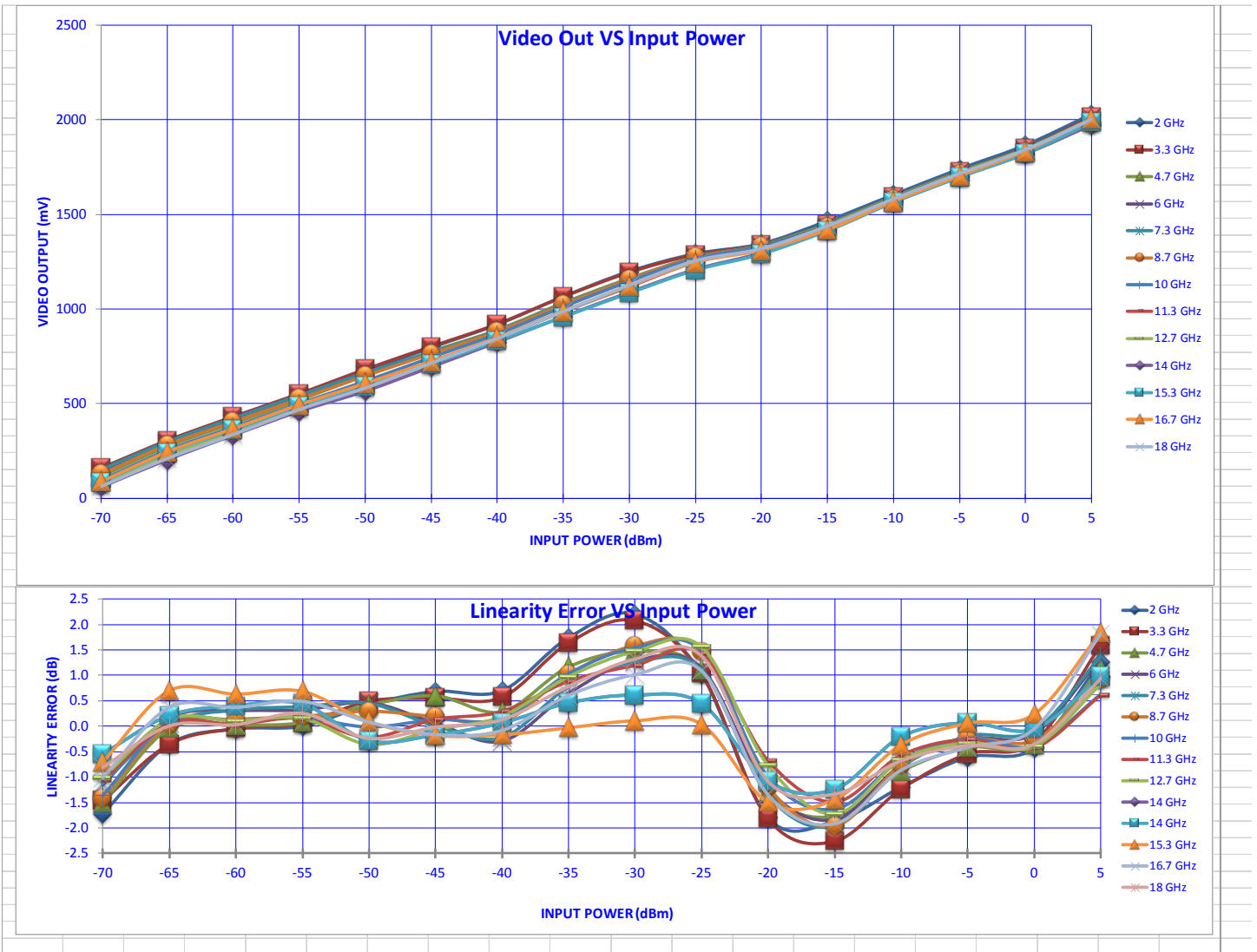
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		LOG TRANSFER VS FREQUENCY																	
		Tuesday, October 25, 2016																	
		MODEL: SDLVA-6G18G-CD-2-OPT218-NRF																	
		TESTED BY: J.Emperador																	
		DATE: 10/25/16																	
		SERIAL NO: PL20007																	
		-40C																	
		 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		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
2 GHz	INTERCEPT (mV)	1875																Measured Value (mV)	
	SLOPE (mV/dB)	24.3																Error (mV)	
																		LINEARITY ERROR (dB)	
3.3 GHz	INTERCEPT (mV)	1856																Measured Value (mV)	
	SLOPE (mV/dB)	23.7																Error (mV)	
																		LINEARITY ERROR (dB)	
4.7 GHz	INTERCEPT (mV)	1854																Measured Value (mV)	
	SLOPE (mV/dB)	24.3																Error (mV)	
																		LINEARITY ERROR (dB)	
6 GHz	INTERCEPT (mV)	1841																Measured Value (mV)	
	SLOPE (mV/dB)	23.9																Error (mV)	
																		LINEARITY ERROR (dB)	
7.3 GHz	INTERCEPT (mV)	1839																Measured Value (mV)	
	SLOPE (mV/dB)	23.7																Error (mV)	
																		LINEARITY ERROR (dB)	
8.7 GHz	INTERCEPT (mV)	1836																Measured Value (mV)	
	SLOPE (mV/dB)	23.9																Error (mV)	
																		LINEARITY ERROR (dB)	
10 GHz	INTERCEPT (mV)	1842																Measured Value (mV)	
	SLOPE (mV/dB)	24.5																Error (mV)	
																		LINEARITY ERROR (dB)	
11.3 GHz	INTERCEPT (mV)	1835																Measured Value (mV)	
	SLOPE (mV/dB)	24.8																Error (mV)	
																		LINEARITY ERROR (dB)	
12.7 GHz	INTERCEPT (mV)	1828																Measured Value (mV)	
	SLOPE (mV/dB)	24.7																Error (mV)	
																		LINEARITY ERROR (dB)	
14 GHz	INTERCEPT (mV)	1824																Measured Value (mV)	
	SLOPE (mV/dB)	25																Error (mV)	
																		LINEARITY ERROR (dB)	
15.3 GHz	INTERCEPT (mV)	1816																Measured Value (mV)	
	SLOPE (mV/dB)	24.5																Error (mV)	
																		LINEARITY ERROR (dB)	
16.7 GHz	INTERCEPT (mV)	1835																Measured Value (mV)	
	SLOPE (mV/dB)	24.6																Error (mV)	
																		LINEARITY ERROR (dB)	
18 GHz	INTERCEPT (mV)	1852																Measured Value (mV)	
	SLOPE (mV/dB)	25.3																Error (mV)	
	Average Slope (mV)	24.4																LINEARITY ERROR (dB)	



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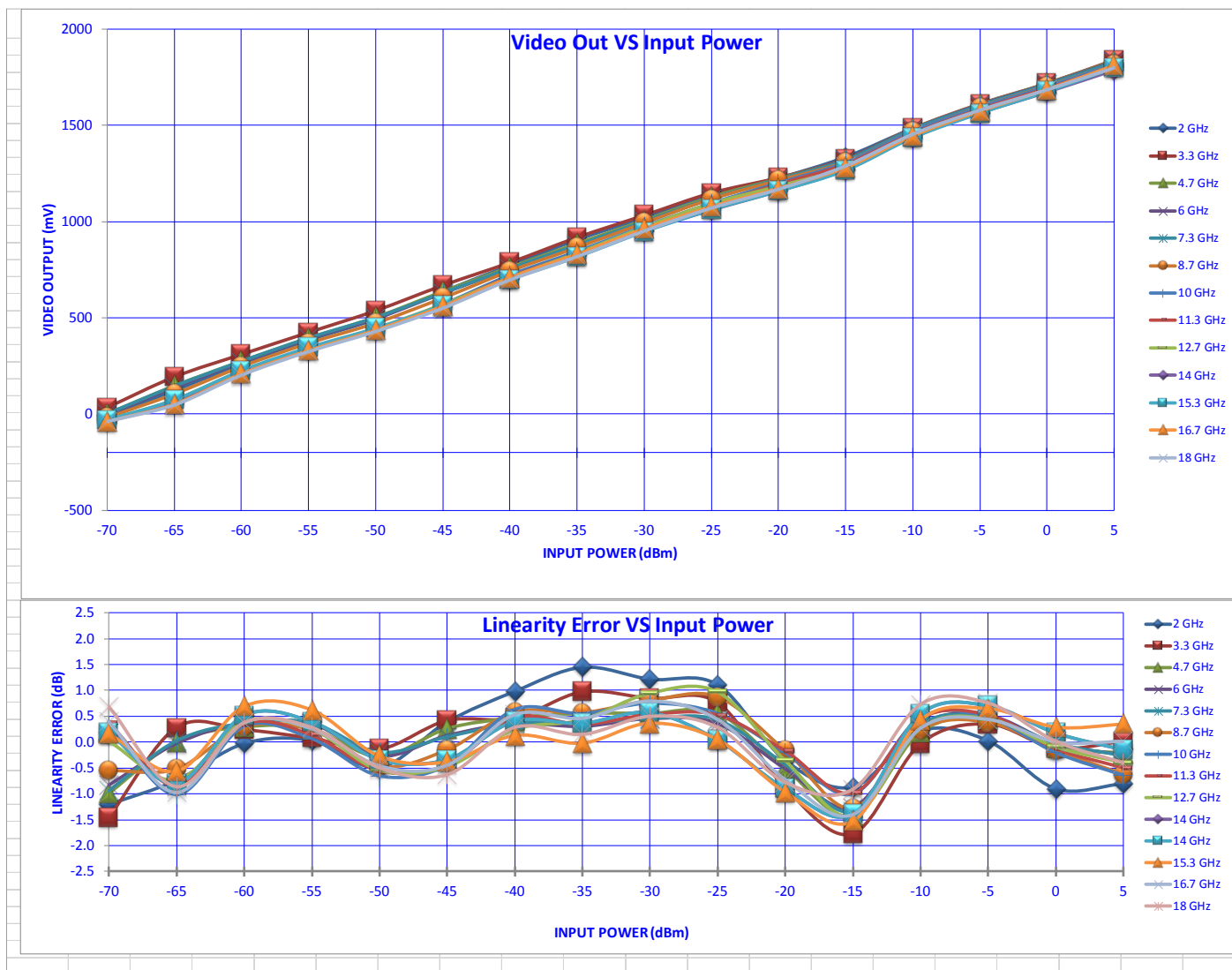
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Frequency		LOG TRANSFER VS FREQUENCY														RF Input Power (dBm)		
		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5			0
		Tuesday, October 25, 2016																
		MODEL: SDLVA-6G18G-CD-2-OPT218-NRF TESTED BY: J.Emperador DATE: 10/25/16 SERIAL NO: PL20007 +85C														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		
2 GHz	INTERCEPT (mV)	1722															Measured Value (mV)	
	SLOPE (mV/dB)	24.3															Error (mV)	
																	LINEARITY ERROR (dB)	
3.3 GHz	INTERCEPT (mV)	1721															Measured Value (mV)	
	SLOPE (mV/dB)	23.6															Error (mV)	
																	LINEARITY ERROR (dB)	
4.7 GHz	INTERCEPT (mV)	1719															Measured Value (mV)	
	SLOPE (mV/dB)	24.2															Error (mV)	
																	LINEARITY ERROR (dB)	
6 GHz	INTERCEPT (mV)	1716															Measured Value (mV)	
	SLOPE (mV/dB)	24.3															Error (mV)	
																	LINEARITY ERROR (dB)	
7.3 GHz	INTERCEPT (mV)	1714															Measured Value (mV)	
	SLOPE (mV/dB)	24.2															Error (mV)	
																	LINEARITY ERROR (dB)	
8.7 GHz	INTERCEPT (mV)	1707															Measured Value (mV)	
	SLOPE (mV/dB)	24.4															Error (mV)	
																	LINEARITY ERROR (dB)	
10 GHz	INTERCEPT (mV)	1705															Measured Value (mV)	
	SLOPE (mV/dB)	25															Error (mV)	
																	LINEARITY ERROR (dB)	
11.3 GHz	INTERCEPT (mV)	1694															Measured Value (mV)	
	SLOPE (mV/dB)	24.8															Error (mV)	
																	LINEARITY ERROR (dB)	
12.7 GHz	INTERCEPT (mV)	1683															Measured Value (mV)	
	SLOPE (mV/dB)	24.5															Error (mV)	
																	LINEARITY ERROR (dB)	
14 GHz	INTERCEPT (mV)	1669															Measured Value (mV)	
	SLOPE (mV/dB)	24.4															Error (mV)	
																	LINEARITY ERROR (dB)	
15.3 GHz	INTERCEPT (mV)	1669															Measured Value (mV)	
	SLOPE (mV/dB)	24.3															Error (mV)	
																	LINEARITY ERROR (dB)	
16.7 GHz	INTERCEPT (mV)	1685															Measured Value (mV)	
	SLOPE (mV/dB)	24.8															Error (mV)	
																	LINEARITY ERROR (dB)	
18 GHz	INTERCEPT (mV)	1684															Measured Value (mV)	
	SLOPE (mV/dB)	24.9															Error (mV)	
																	LINEARITY ERROR (dB)	
	Average Slope (mV)	24.4																



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