



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

PL36389/2218

Customer: _____ Tested By: Rcombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/28/2022
Serial No: PL36389/2218 Drawing No: 27623906 Rev: A1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency:	2.0 GHz – 18.0 GHz	2.0 GHz – 18.0 GHz See Plots	PMI QA 2
2	Flatness:	± 2.0 dB Maximum	±1.1 dB 25°C See Plots	
3	TSS:	-70 dBm Minimum	-72 dBm	
4	VSWR:	2.0:1 (Input)	1.7:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	13.46 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.2 mV/dB See Plots	
8	Log Range:	-70 to +5 dBm	-70 to +5 dBm See Plots	
9	Log Linearity:	±2.5 dB (-40°C - +85°C)	±1.8 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.3 ns	
12	Recovery Time:	60 ns Typical	46.3 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 257 mA -12V @ 99 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: 4/29/2022



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

PL36389/2218

Log Transfer Over Frequency +25°C

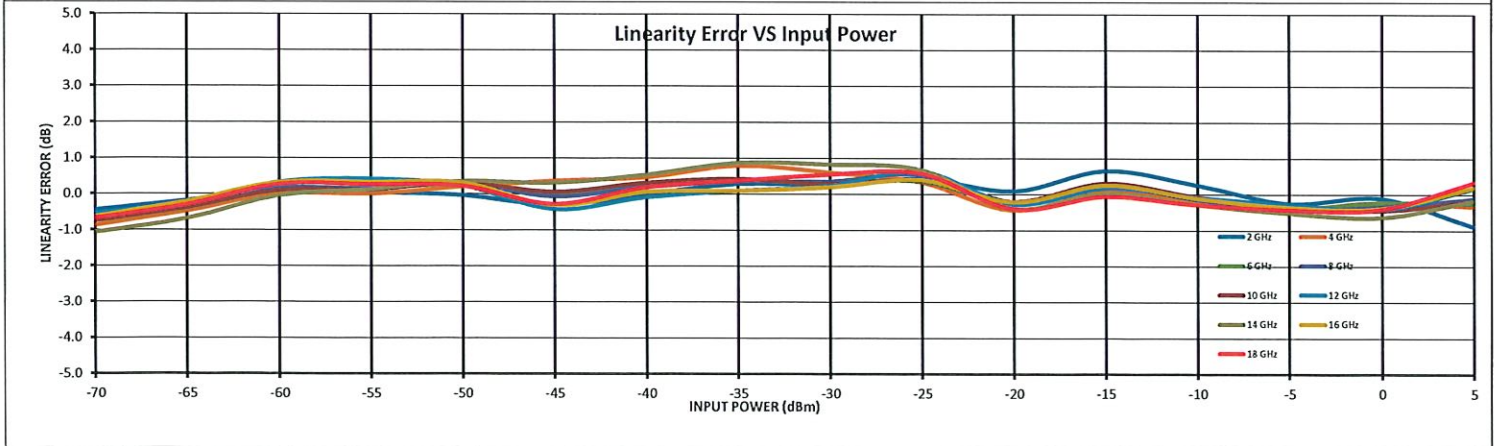
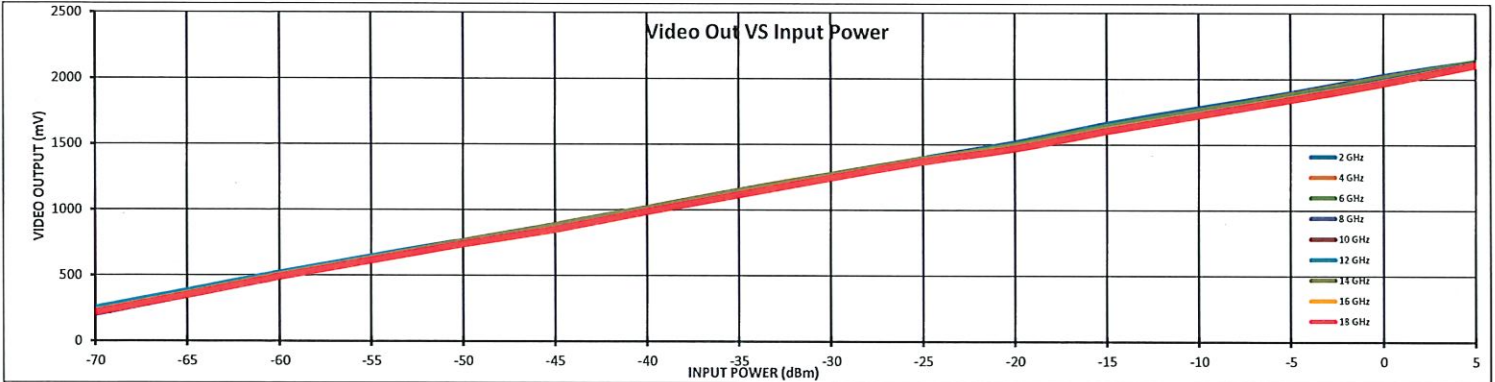


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36389/2218
 Date: 4/28/2022
 Tested By: Rcombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2028	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2028	208	344	482	608	736	858	994	1131	1260	1393	1514	1657	1776	1892	2025	2134	Measured Value (mV)
	SLOPE (mV/dB)	25.8	-11	-5	4	1	-1	-8	0	7	7	11	2	17	7	-6	-3	-23	Error (mV)
	LIN. ERR. (dB)	0.9	-0.44	-0.18	0.14	0.05	-0.03	-0.30	-0.01	0.29	0.27	0.44	0.09	0.66	0.26	-0.25	-0.10	-0.89	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2018	222	358	497	624	756	887	1016	1151	1273	1393	1500	1640	1759	1881	2013	2136	Measured Value (mV)
	SLOPE (mV/dB)	25.3	-22	-12	0	0	5	9	12	20	15	9	-11	3	-5	-10	-5	-8	Error (mV)
	LIN. ERR. (dB)	0.9	-0.87	-0.47	0.01	0.01	0.20	0.37	0.47	0.80	0.61	0.34	-0.44	0.10	-0.21	-0.39	-0.21	-0.32	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2014	217	354	493	620	750	871	1002	1134	1260	1388	1500	1641	1757	1877	2008	2134	Measured Value (mV)
	SLOPE (mV/dB)	25.4	-18	-8	4	4	7	1	5	9	9	9	-6	6	-2	-9	-5	-7	Error (mV)
	LIN. ERR. (dB)	0.7	-0.71	-0.33	0.15	0.16	0.26	0.02	0.20	0.37	0.34	0.36	-0.22	0.32	-0.09	-0.37	-0.21	-0.26	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1999	216	351	490	615	745	862	995	1125	1252	1382	1489	1627	1743	1863	1991	2122	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-18	-8	4	4	7	-2	5	9	9	14	-5	6	-3	-10	-9	-3	Error (mV)
	LIN. ERR. (dB)	0.7	-0.70	-0.33	0.16	0.14	0.29	-0.07	0.20	0.35	0.36	0.55	-0.21	0.24	-0.14	-0.41	-0.34	-0.11	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1995	217	352	490	616	746	866	998	1126	1248	1377	1487	1626	1742	1861	1984	2116	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-19	-9	3	3	8	1	8	11	7	10	-5	8	-2	-8	-11	-4	Error (mV)
	LIN. ERR. (dB)	0.7	-0.74	-0.38	0.10	0.12	0.31	0.06	0.32	0.43	0.29	0.40	-0.20	0.31	-0.07	-0.33	-0.44	-0.17	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1984	247	377	514	640	758	865	997	1124	1251	1384	1485	1619	1736	1854	1974	2112	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-13	-6	8	10	6	-10	-2	2	6	16	-7	5	-2	-7	-10	4	Error (mV)
	LIN. ERR. (dB)	0.6	-0.53	-0.25	0.34	0.42	0.24	-0.43	-0.09	0.10	0.24	0.64	-0.27	0.18	-0.08	-0.27	-0.42	0.18	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1990	225	359	499	627	757	880	1010	1143	1266	1386	1484	1618	1735	1853	1974	2110	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-27	-17	-1	3	9	8	13	22	21	17	-10	1	-7	-13	-16	-4	Error (mV)
	LIN. ERR. (dB)	1.1	-1.07	-0.69	-0.04	0.13	0.36	0.31	0.54	0.87	0.83	0.68	-0.39	0.04	-0.28	-0.51	-0.63	-0.17	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1987	211	347	487	613	738	848	983	1110	1238	1369	1479	1617	1733	1853	1978	2118	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-16	-5	8	8	8	-8	2	2	5	10	-5	7	-3	-9	-10	5	Error (mV)
	LIN. ERR. (dB)	0.6	-0.63	-0.21	0.33	0.33	0.32	-0.31	0.06	0.10	0.20	0.40	-0.21	0.26	-0.10	-0.36	-0.38	0.20	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1979	218	352	490	615	738	850	987	1116	1245	1370	1470	1604	1722	1844	1969	2112	Measured Value (mV)
	SLOPE (mV/dB)	24.9	-17	-7	7	7	6	-7	5	9	14	14	-10	-1	-7	-10	-10	8	Error (mV)
	LIN. ERR. (dB)	0.7	-0.67	-0.30	0.28	0.26	0.23	-0.28	0.19	0.38	0.56	0.58	-0.40	-0.05	-0.29	-0.42	-0.40	0.34	LINEARITY ERROR (dB)

Avg. Slope: 25.2 mV/dB

0.8 0.6 0.7 0.6 0.5 0.8 0.7 0.8 0.7 0.5 0.9 1.1 1.1 1 1.1 0.5 Flatness dB: ±1.1 dB





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

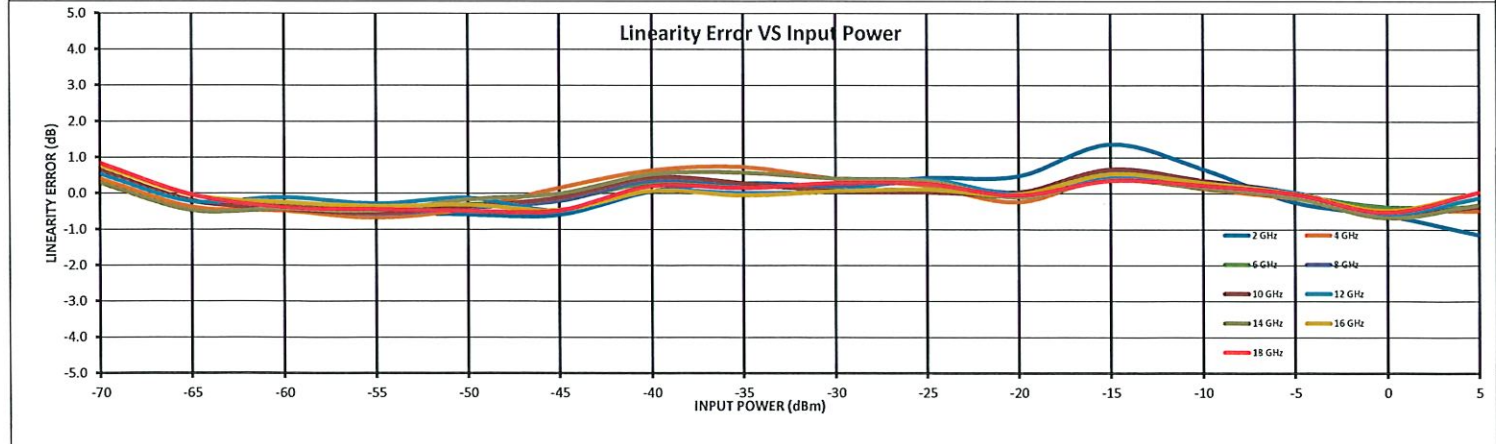
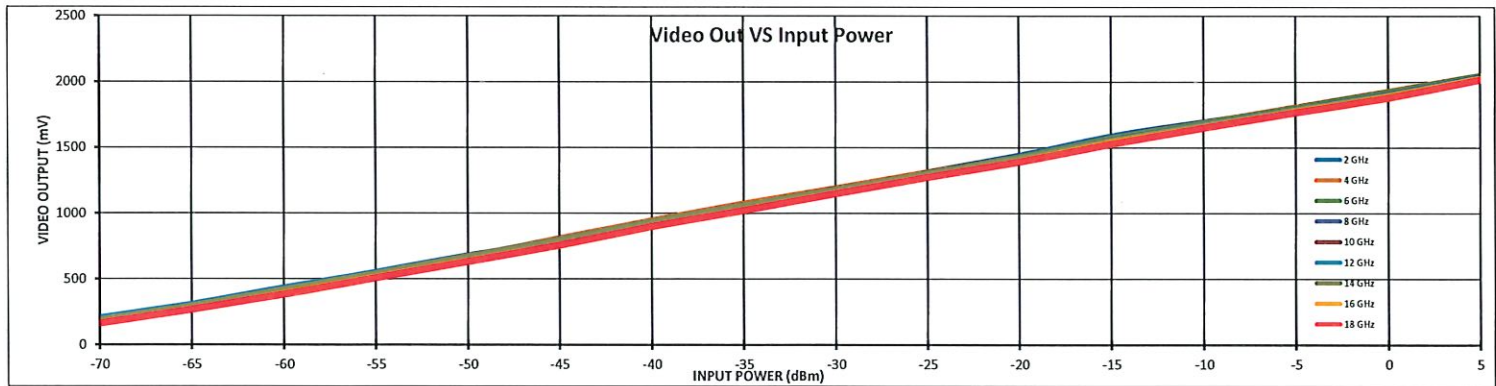
PL36389/2218



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36389/2218
Date: 4/28/2022
Tested By: Rcombs
Test Temp: +85°C

Log Transfer Over Frequency +85°C

Frequency	INTERCEPT (mV)	1931	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	SLOPE (mV/dB)	25.0	195	300	423	542	666	790	932	1063	1186	1316	1442	1590	1698	1799	1916	2027	Measured Value (mV)
	LIN. ERR. (dB)	1.4	15	-5	-7	-13	-15	-15	2	7	6	11	12	34	17	-6	-15	-29	Error (mV)
			0.60	-0.21	-0.28	-0.51	-0.58	-0.60	0.06	0.29	0.22	0.44	0.49	1.38	0.68	-0.25	-0.60	-1.15	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1940	188	294	417	538	670	811	949	1077	1195	1316	1430	1574	1691	1811	1929	2053	Measured Value (mV)
	SLOPE (mV/dB)	25.2	10	-9	-12	-17	-11	4	16	19	10	6	-6	12	3	-3	-10	-12	Error (mV)
	LIN. ERR. (dB)	0.7	0.41	-0.37	-0.47	-0.67	-0.43	0.16	0.64	0.74	0.41	0.23	-0.24	0.47	0.13	-0.12	-0.41	-0.49	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1934	189	294	418	539	669	798	936	1060	1182	1308	1430	1574	1689	1807	1925	2051	Measured Value (mV)
	SLOPE (mV/dB)	25.1	15	-5	-7	-12	-8	-5	8	6	3	3	-1	17	7	-1	-9	-9	Error (mV)
	LIN. ERR. (dB)	0.7	0.58	-0.21	-0.29	-0.48	-0.30	-0.18	0.30	0.24	0.10	0.11	-0.06	0.68	0.27	-0.05	-0.37	-0.36	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1923	179	283	403	525	655	786	926	1049	1173	1302	1421	1561	1678	1795	1910	2039	Measured Value (mV)
	SLOPE (mV/dB)	25.2	15	-5	-10	-14	-10	-5	9	7	5	8	1	16	7	-2	-13	-9	Error (mV)
	LIN. ERR. (dB)	0.7	0.65	-0.20	-0.41	-0.57	-0.40	-0.21	0.36	0.27	0.21	0.31	0.04	0.63	0.27	-0.08	-0.52	-0.37	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1916	177	281	400	523	653	784	924	1045	1165	1290	1415	1557	1674	1791	1902	2032	Measured Value (mV)
	SLOPE (mV/dB)	25.1	16	-5	-11	-14	-9	-3	11	7	2	1	0	17	9	1	-14	-9	Error (mV)
	LIN. ERR. (dB)	0.7	0.65	-0.19	-0.43	-0.55	-0.36	-0.12	0.45	0.29	0.06	0.04	0.02	0.68	0.36	0.03	-0.56	-0.36	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1908	201	305	431	550	676	791	927	1048	1172	1303	1416	1551	1669	1786	1894	2028	Measured Value (mV)
	SLOPE (mV/dB)	24.6	13	-5	-3	-7	-3	-12	2	0	2	10	0	12	7	1	-14	-3	Error (mV)
	LIN. ERR. (dB)	0.6	0.54	-0.22	-0.10	-0.28	-0.12	-0.47	0.06	0.01	0.07	0.40	-0.01	0.49	0.29	0.03	-0.56	-0.12	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1911	188	293	418	540	671	799	935	1060	1180	1302	1414	1549	1667	1784	1894	2027	Measured Value (mV)
	SLOPE (mV/dB)	24.7	7	-12	-11	-12	-4	0	13	15	10	9	-3	9	4	-3	-17	-8	Error (mV)
	LIN. ERR. (dB)	0.7	0.30	-0.47	-0.43	-0.48	-0.17	0.00	0.53	0.59	0.42	0.36	-0.10	0.38	0.16	-0.12	-0.67	-0.31	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1906	174	278	398	521	647	768	907	1029	1157	1283	1405	1544	1663	1781	1894	2032	Measured Value (mV)
	SLOPE (mV/dB)	25.0	20	-1	-6	-9	-8	-12	2	-1	2	3	0	14	7	0	-12	1	Error (mV)
	LIN. ERR. (dB)	0.8	0.79	-0.04	-0.24	-0.35	-0.31	-0.46	0.07	-0.05	0.07	0.12	-0.02	0.55	0.29	0.00	-0.47	0.04	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1893	164	267	384	507	631	766	898	1022	1151	1276	1392	1527	1649	1768	1881	2019	Measured Value (mV)
	SLOPE (mV/dB)	25.0	21	-1	-10	-11	-12	-12	5	4	7	7	-1	9	6	0	-13	1	Error (mV)
	LIN. ERR. (dB)	0.8	0.85	-0.03	-0.38	-0.44	-0.49	-0.48	0.21	0.15	0.29	0.28	-0.05	0.36	0.23	-0.02	-0.52	0.04	LINEARITY ERROR (dB)
Avg. Slope: 25 mV/dB			0.7	0.8	1	0.8	0.9	1.1	1	1.1	0.9	0.8	1	1.2	1	0.9	1	0.7	Flatness dB: ±1.2 dB





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

Log Transfer Over Frequency -40°C

PL36389/2218

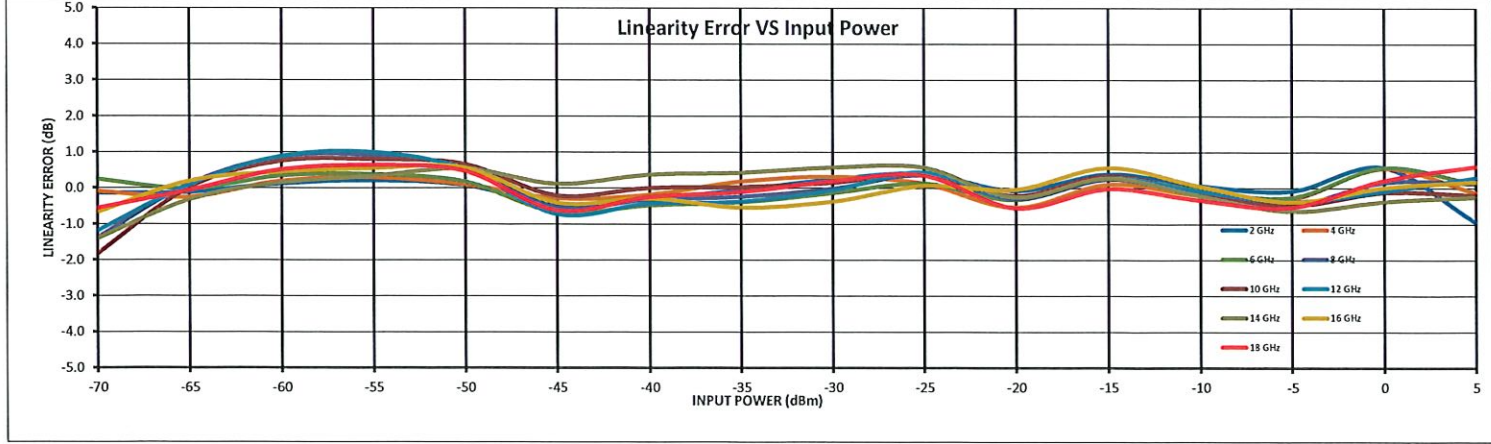
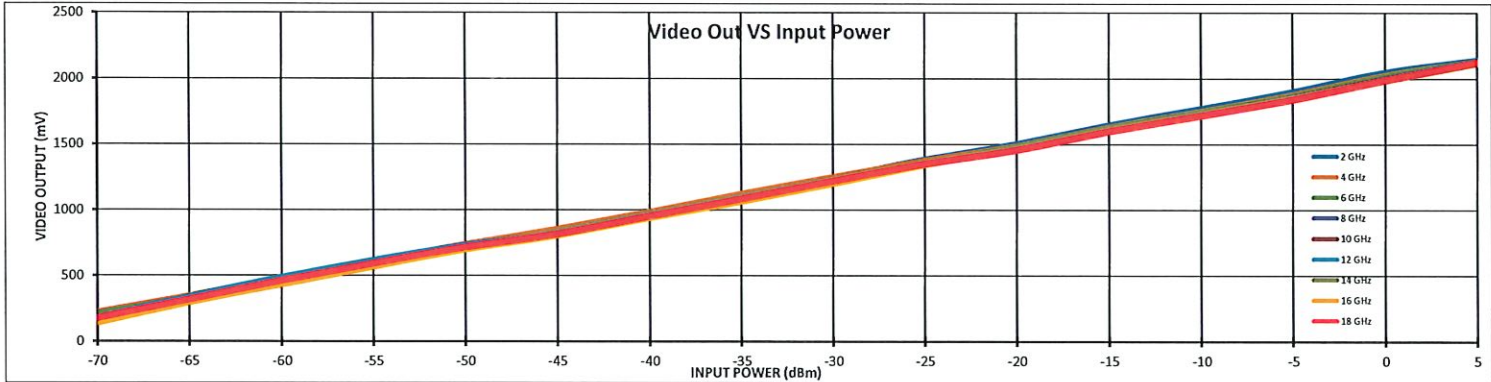


Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36389/2218
Date: 4/28/2022
Tested By: Rcombs
Test Temp: -40°C

Frequency	INTERCEPT (mV)	2038	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2038	182	314	453	588	717	834	971	1110	1250	1387	1507	1651	1775	1903	2053	2145	Measured Value (mV)
	SLOPE (mV/dB)	26.5	-3	-3	3	6	2	-12	-8	-1	7	11	-2	10	2	-2	16	-25	ERROR (mV)
	LIN. ERR. (dB)	0.9	-0.13	-0.11	0.13	0.22	0.08	-0.47	-0.30	-0.05	0.25	0.41	-0.07	0.40	0.07	-0.07	0.59	-0.94	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2014	225	349	488	618	740	858	988	1125	1256	1379	1490	1634	1754	1879	2028	2138	Measured Value (mV)
	SLOPE (mV/dB)	25.5	-2	-6	5	8	3	-7	-5	5	8	4	-14	3	-5	-7	14	-3	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.09	-0.24	0.20	0.31	0.10	-0.28	-0.18	0.19	0.32	0.14	-0.53	0.11	-0.19	-0.29	0.55	-0.12	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2007	215	337	474	604	727	834	967	1098	1233	1368	1485	1629	1748	1872	2021	2138	Measured Value (mV)
	SLOPE (mV/dB)	25.7	6	0	9	10	5	-17	-12	-10	-3	4	-8	8	-1	-7	15	3	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.25	-0.02	0.35	0.39	0.18	-0.67	-0.47	-0.39	-0.13	0.14	-0.32	0.31	-0.06	-0.25	0.58	0.13	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	2002	149	317	467	598	719	820	955	1087	1223	1362	1475	1619	1738	1860	2006	2135	Measured Value (mV)
	SLOPE (mV/dB)	26.0	-36	3	23	24	15	-14	-8	-6	0	9	-8	7	-4	-12	4	4	ERROR (mV)
	LIN. ERR. (dB)	1.4	-1.38	0.12	0.87	0.92	0.59	-0.54	-0.31	-0.24	-0.01	0.36	-0.29	0.25	-0.17	-0.47	0.16	0.14	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2005	134	313	462	594	720	828	963	1094	1228	1364	1479	1623	1741	1862	2002	2130	Measured Value (mV)
	SLOPE (mV/dB)	26.0	-48	0	20	21	17	-5	0	1	4	10	-5	9	-3	-12	-3	-5	ERROR (mV)
	LIN. ERR. (dB)	1.8	-1.83	0.02	0.76	0.80	0.66	-0.21	0.00	0.03	0.15	0.38	-0.21	0.34	-0.12	-0.48	-0.11	-0.19	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1998	177	337	484	614	730	825	960	1088	1223	1363	1473	1614	1732	1852	1986	2123	Measured Value (mV)
	SLOPE (mV/dB)	26.3	-30	2	23	25	14	-19	-11	-9	-1	11	-7	7	-2	-9	-2	8	ERROR (mV)
	LIN. ERR. (dB)	1.2	-1.19	0.09	0.90	1.00	0.54	-0.73	-0.43	-0.37	-0.06	0.45	-0.26	0.29	-0.08	-0.37	-0.08	0.30	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1997	143	301	443	578	713	832	968	1100	1233	1363	1472	1615	1732	1851	1988	2121	Measured Value (mV)
	SLOPE (mV/dB)	26.0	-36	-8	4	9	14	3	10	11	15	15	-6	7	-6	-17	-10	-6	ERROR (mV)
	LIN. ERR. (dB)	1.4	-1.40	-0.32	0.17	0.34	0.55	0.12	0.38	0.43	0.58	0.58	-0.24	0.28	-0.21	-0.64	-0.37	-0.24	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1990	133	287	425	559	691	797	931	1056	1192	1335	1463	1611	1729	1848	1990	2126	Measured Value (mV)
	SLOPE (mV/dB)	26.3	-18	5	12	15	15	-11	-7	-14	-10	2	-1	15	1	-10	0	5	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.67	0.20	0.46	0.56	0.56	-0.41	-0.28	-0.54	-0.37	0.07	-0.03	0.58	0.05	-0.38	0.02	0.19	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1982	179	320	462	593	717	816	954	1085	1221	1353	1457	1599	1718	1841	1988	2126	Measured Value (mV)
	SLOPE (mV/dB)	25.6	-14	-1	13	18	12	-16	-8	-3	5	9	-14	0	-9	-13	6	16	ERROR (mV)
	LIN. ERR. (dB)	0.635	-0.56	-0.06	0.52	0.64	0.47	-0.62	-0.24	-0.11	0.19	0.36	-0.55	-0.01	-0.33	-0.53	0.22	0.61	LINEARITY ERROR (dB)

Avg. Slope: 25.9 mV/dB

1.3 1.2 1.2 1.1 1 1.2 1.1 1.3 1.2 1 1 1 1.1 1.2 1.3 0.5 Flatness dB: ±1.8 dB

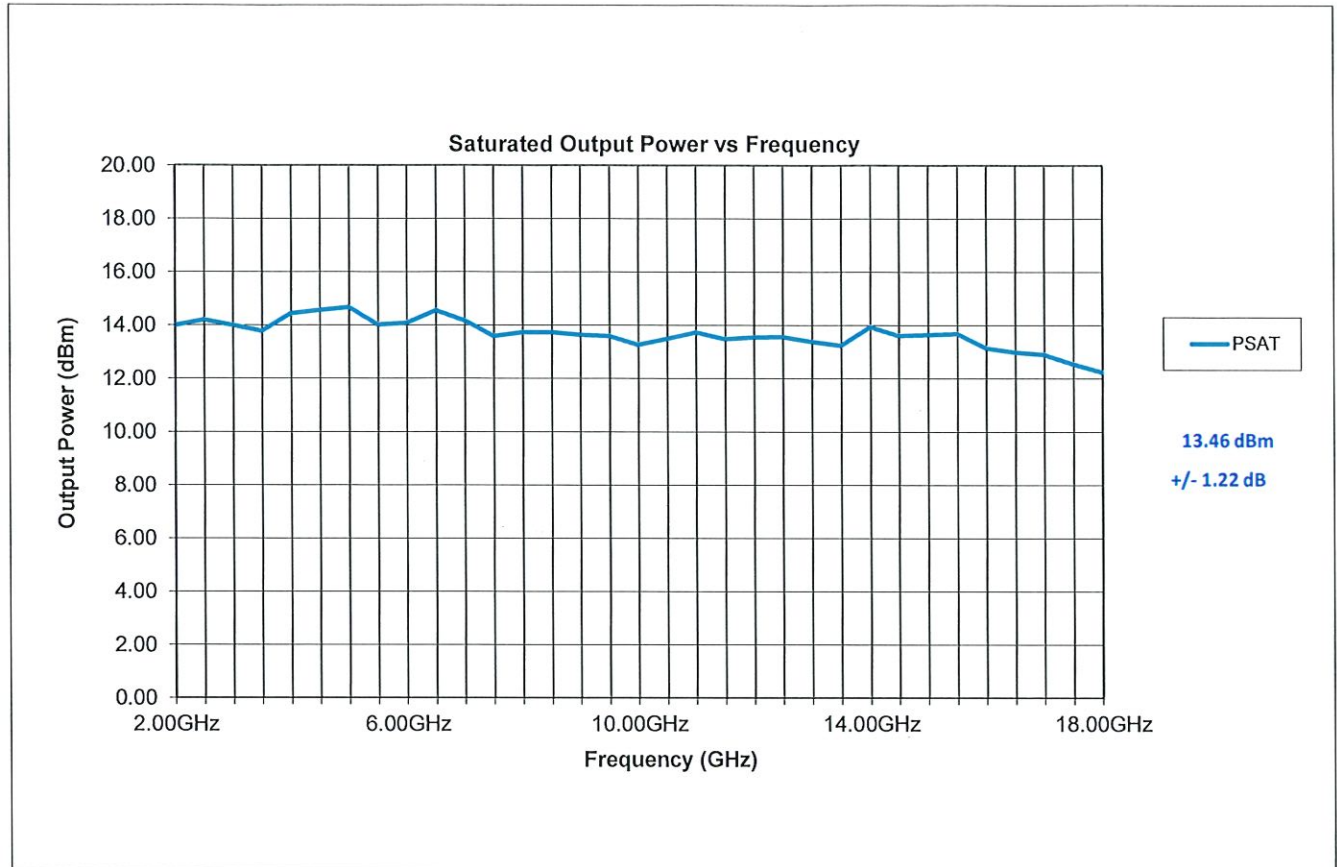




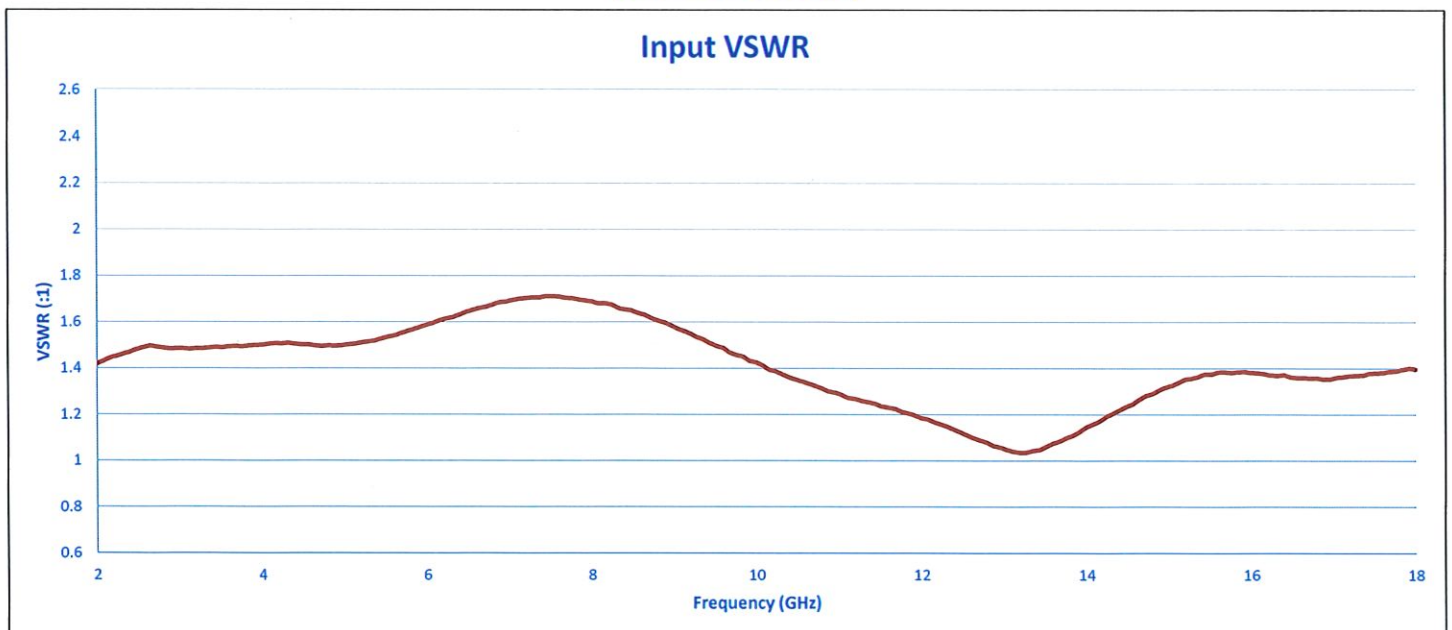
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36389/2218

PSAT



INPUT VSWR

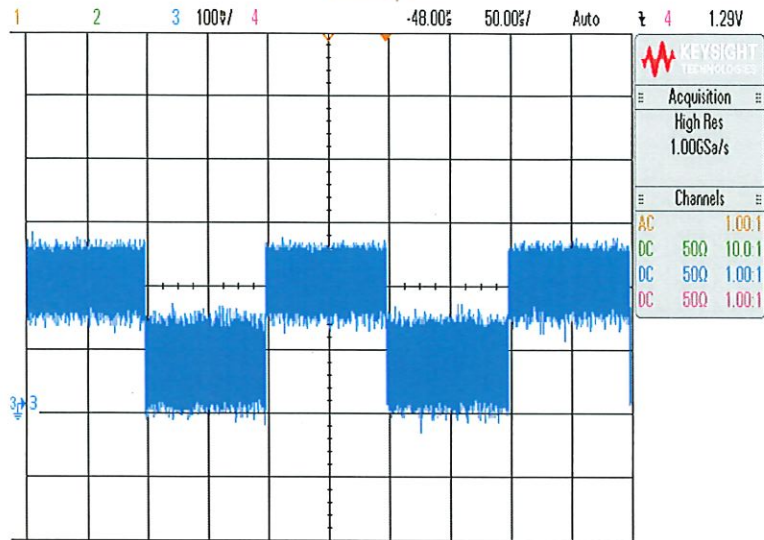




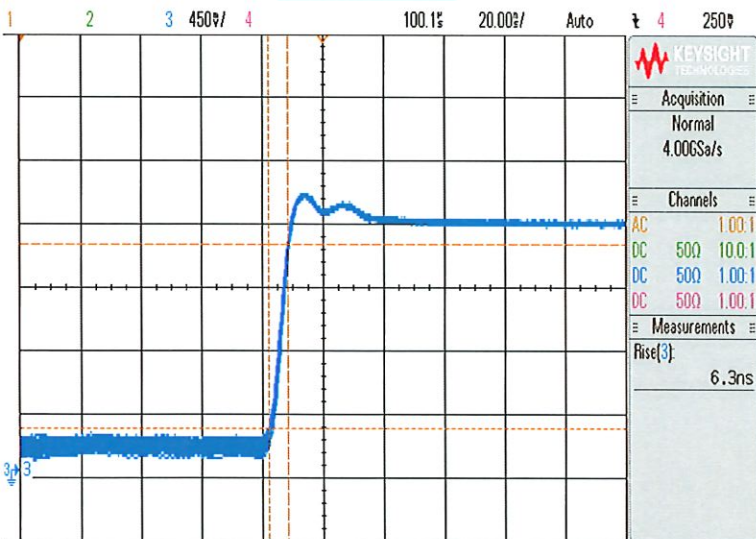
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36389/2218

TSS



Rise Time



Fall Time

