



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

PL36334/2217

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/28/2022
 Serial No: PL36334/2217 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	13.36 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)	±1.5 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	47.3 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 268 mA -12V @ 102 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: 4/29/2022



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

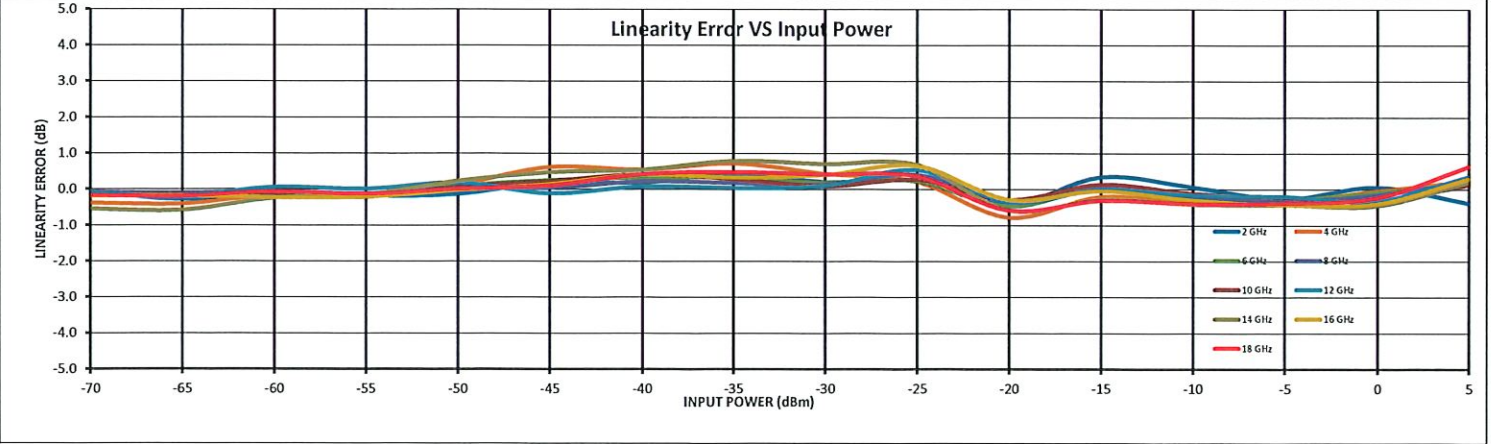
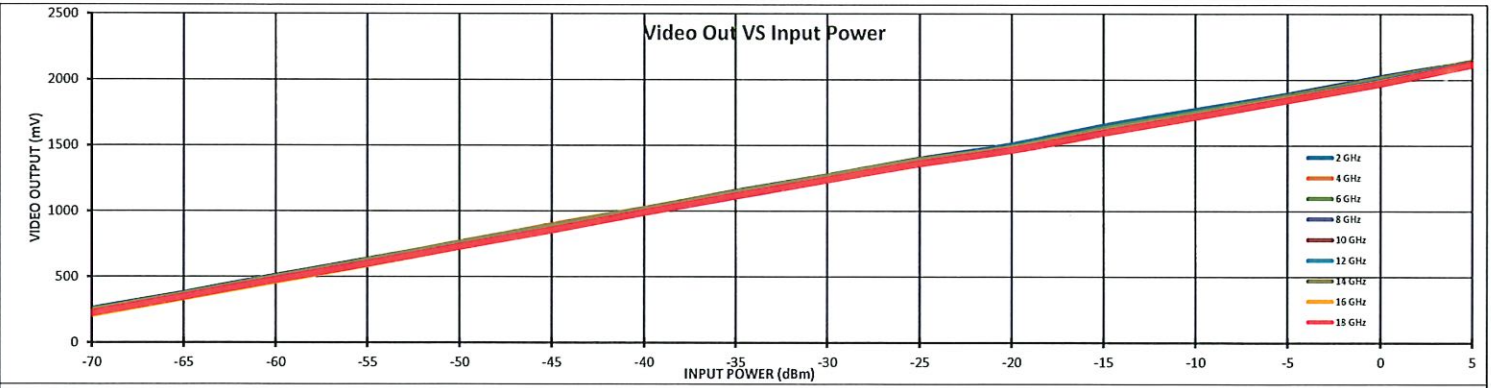
PL36334/2217

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36334/2217
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2019	-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)	25.2	256	376	507	631	757	892	1017	1149	1269	1396	1505	1651	1769	1887	2021	2136	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-2	-7	-2	-4	-3	5	5	11	5	6	-11	9	2	-7	2	-9	Error (mV)
			-0.06	-0.27	-0.08	-0.17	-0.13	0.21	0.19	0.44	0.21	0.24	-0.42	0.35	0.07	-0.26	0.07	-0.38	LINEARITY ERROR (dB)
4 GHz	SLOPE (mV/dB)	25.1	243	367	499	623	757	895	1019	1149	1267	1387	1487	1627	1748	1875	2008	2140	Measured Value (mV)
	LIN. ERR. (dB)	0.8	-9	-10	-4	-5	3	16	14	18	11	5	-20	-5	-10	-8	-1	6	Error (mV)
			-0.38	-0.40	-0.16	-0.22	0.12	0.62	0.55	0.72	0.43	0.21	-0.78	-0.20	-0.38	-0.32	-0.04	0.23	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	25.4	224	350	480	605	739	870	999	1126	1249	1378	1487	1627	1747	1872	2005	2138	Measured Value (mV)
	LIN. ERR. (dB)	0.5	-4	-5	-2	-4	2	6	8	8	5	6	-12	2	-6	-7	-2	5	Error (mV)
			-0.17	-0.19	-0.10	-0.16	0.09	0.25	0.33	0.33	0.18	0.24	-0.47	0.07	-0.23	-0.29	-0.08	0.18	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	25.3	222	348	476	600	731	858	989	1115	1240	1374	1481	1618	1738	1862	1992	2129	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-2	-3	-1	-4	1	1	6	5	4	10	-9	2	-5	-7	-4	7	Error (mV)
			-0.07	-0.11	-0.05	-0.16	0.05	0.04	0.22	0.18	0.14	0.41	-0.35	0.07	-0.20	-0.30	-0.15	0.26	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	25.3	214	340	466	592	726	856	988	1112	1233	1364	1477	1614	1735	1859	1983	2121	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-4	-4	-4	-5	1	6	11	7	2	7	-7	-3	-3	-5	-8	4	Error (mV)
			-0.14	-0.15	-0.17	-0.21	0.05	0.22	0.42	0.29	0.09	0.27	-0.29	0.14	-0.12	-0.21	-0.32	0.14	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	24.9	238	361	491	615	744	861	990	1114	1239	1375	1477	1610	1731	1855	1976	2117	Measured Value (mV)
	LIN. ERR. (dB)	0.6	-3	-5	2	0	5	-3	2	1	2	14	-8	0	-4	-5	-8	9	Error (mV)
			-0.10	-0.19	0.06	0.01	0.19	-0.11	0.08	0.05	0.10	0.55	-0.34	-0.01	-0.16	-0.19	-0.32	0.37	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	24.8	240	363	496	622	755	885	1011	1141	1263	1386	1478	1610	1730	1854	1977	2117	Measured Value (mV)
	LIN. ERR. (dB)	0.8	-13	-14	-6	-4	6	12	14	20	18	17	-15	-7	-10	-11	-11	5	Error (mV)
			-0.54	-0.58	-0.24	-0.15	0.23	0.47	0.55	0.80	0.71	0.69	-0.59	-0.28	-0.41	-0.43	-0.45	0.21	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	25.4	204	332	458	585	718	849	983	1108	1237	1371	1474	1608	1728	1852	1980	2125	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-5	-4	-6	-5	0	3	11	8	10	17	-7	-1	-8	-11	-10	8	Error (mV)
			-0.19	-0.17	-0.22	-0.21	-0.02	0.13	0.42	0.33	0.41	0.66	-0.28	-0.04	-0.30	-0.42	-0.40	0.30	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	25.0	224	348	477	600	729	856	989	1115	1239	1363	1464	1596	1719	1844	1973	2120	Measured Value (mV)
	LIN. ERR. (dB)	0.6	-4	-5	-1	-3	0	3	11	12	10	9	-15	-8	-10	-9	-6	16	Error (mV)
			-0.17	-0.20	-0.06	-0.13	0.01	0.10	0.43	0.48	0.41	0.37	-0.59	-0.31	-0.40	-0.38	-0.23	0.65	LINEARITY ERROR (dB)
Avg. Slope: 25.2 mV/dB			1	0.9	1	0.9	0.8	0.9	0.7	0.8	0.7	0.7	0.8	1.1	1	0.9	1	0.5	Flatness dB: ±1.1 dB





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

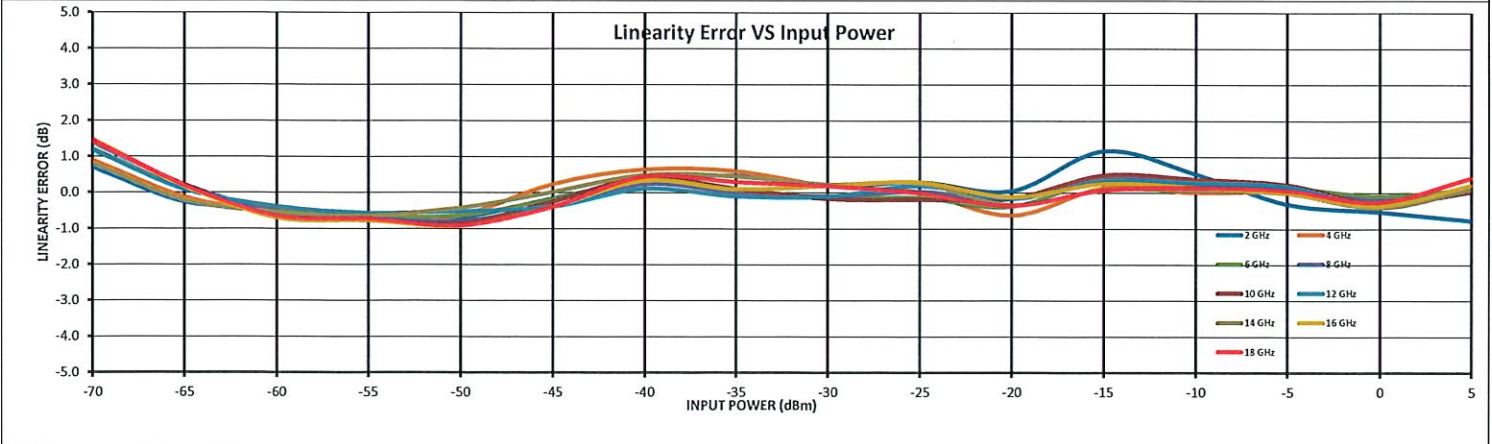
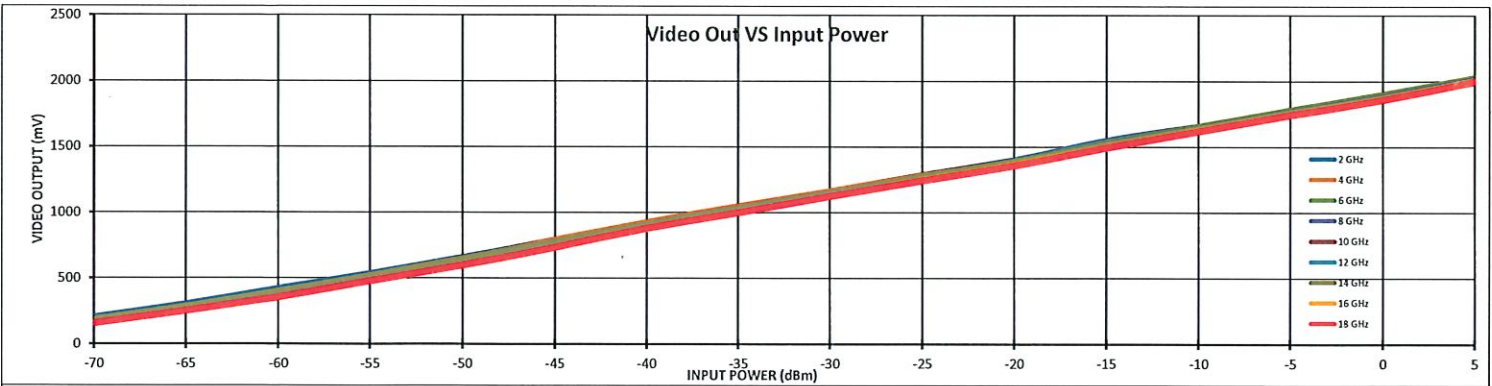
PL36334/2217

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36334/2217
Date: 4/28/2022
Tested By: RCombs
Test Temp: +85°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
2 GHz	1889	24.3	1.2	208	306	424	539	659	794	926	1051	1166	1290	1405	1553	1659	1760	1876	1992	Measured Value (mV)	
				17	-6	-10	-16	-17	-4	8	12	5	7	1	28	13	-7	-13	-18		Error (mV)
				0.70	-0.25	-0.40	-0.66	-0.68	-0.15	0.32	0.48	0.19	0.30	0.06	1.17	0.53	-0.31	-0.53	-0.76		LINEARITY ERROR (dB)
4 GHz	1907	24.9	0.9	188	287	401	520	648	794	928	1052	1166	1286	1394	1538	1659	1784	1904	2033	Measured Value (mV)	
				22	-3	-14	-19	-16	6	16	15	5	1	-16	3	0	1	-3	2		Error (mV)
				0.89	-0.12	-0.56	-0.78	-0.63	0.24	0.65	0.60	0.19	0.02	-0.63	0.13	0.01	0.05	-0.13	0.07		LINEARITY ERROR (dB)
6 GHz	1905	25.0	1.2	182	280	391	511	637	773	911	1030	1150	1275	1394	1539	1659	1783	1902	2033	Measured Value (mV)	
				30	3	-11	-16	-16	-4	8	2	-3	-3	-10	10	5	4	-2	3		Error (mV)
				1.22	0.12	-0.45	-0.65	-0.63	-0.18	0.32	0.09	-0.13	-0.13	-0.38	0.41	0.21	0.15	-0.08	0.11		LINEARITY ERROR (dB)
8 GHz	1893	25.1	1.4	172	268	375	496	619	755	896	1016	1138	1267	1387	1528	1649	1770	1888	2020	Measured Value (mV)	
				35	5	-13	-18	-20	-9	6	0	-2	1	-4	11	7	3	-5	2		Error (mV)
				1.39	0.22	-0.51	-0.71	-0.79	-0.38	0.24	0.01	-0.09	0.04	-0.17	0.46	0.28	0.12	-0.19	0.08		LINEARITY ERROR (dB)
10 GHz	1883	25.1	1.4	163	257	361	484	607	747	890	1008	1126	1251	1377	1519	1642	1763	1876	2009	Measured Value (mV)	
				36	5	-16	-19	-21	-6	11	3	-4	-5	-4	12	9	6	-7	1		Error (mV)
				1.44	0.20	-0.64	-0.76	-0.85	-0.25	0.42	0.11	-0.16	-0.19	-0.16	0.49	0.38	0.23	-0.30	0.04		LINEARITY ERROR (dB)
12 GHz	1878	24.7	1.2	181	277	389	508	632	759	895	1013	1136	1267	1381	1516	1639	1760	1870	2006	Measured Value (mV)	
				29	2	-9	-14	-13	-9	3	-2	-2	5	-4	8	7	4	-8	4		Error (mV)
				1.18	0.09	-0.38	-0.56	-0.51	-0.38	0.12	-0.09	-0.10	0.20	-0.15	0.32	0.28	0.18	-0.34	0.16		LINEARITY ERROR (dB)
14 GHz	1881	24.5	0.8	185	282	397	517	645	778	913	1034	1152	1275	1383	1516	1638	1759	1871	2007	Measured Value (mV)	
				20	-5	-13	-16	-10	0	12	11	6	7	-8	2	2	0	-10	3		Error (mV)
				0.81	-0.21	-0.54	-0.64	-0.42	0.02	0.50	0.46	0.24	0.27	-0.34	0.08	0.07	0.00	-0.41	0.11		LINEARITY ERROR (dB)
16 GHz	1881	25.2	1.5	155	248	352	476	598	737	882	1002	1130	1259	1374	1509	1633	1755	1872	2012	Measured Value (mV)	
				37	5	-18	-20	-23	-10	9	3	5	8	-3	7	4	0	-9	6		Error (mV)
				1.48	0.19	-0.70	-0.77	-0.92	-0.39	0.34	0.11	0.19	0.30	-0.11	0.26	0.16	0.00	-0.38	0.23		LINEARITY ERROR (dB)
18 GHz	1855	24.9	1.5	157	251	354	477	597	734	880	1001	1123	1242	1358	1493	1620	1742	1859	2001	Measured Value (mV)	
				36	5	-16	-18	-23	-10	11	7	5	0	-9	2	4	2	-8	11		Error (mV)
				1.46	0.20	-0.65	-0.73	-0.92	-0.39	0.45	0.30	0.19	0.00	-0.36	0.08	0.14	0.07	-0.25	0.42		LINEARITY ERROR (dB)
Avg. Slope: 24.8 mV/dB				1.1	1.2	1.4	1.3	1.3	1.2	1	1	0.9	1	0.9	1.2	0.8	0.8	0.9	0.8	Flatness dB: ±1.4 dB	





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

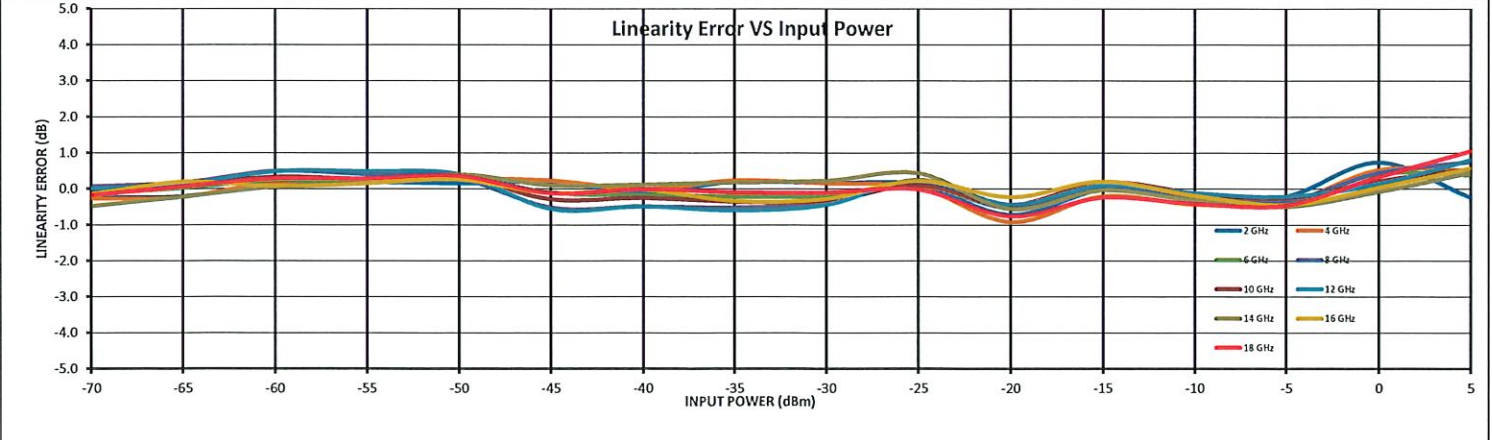
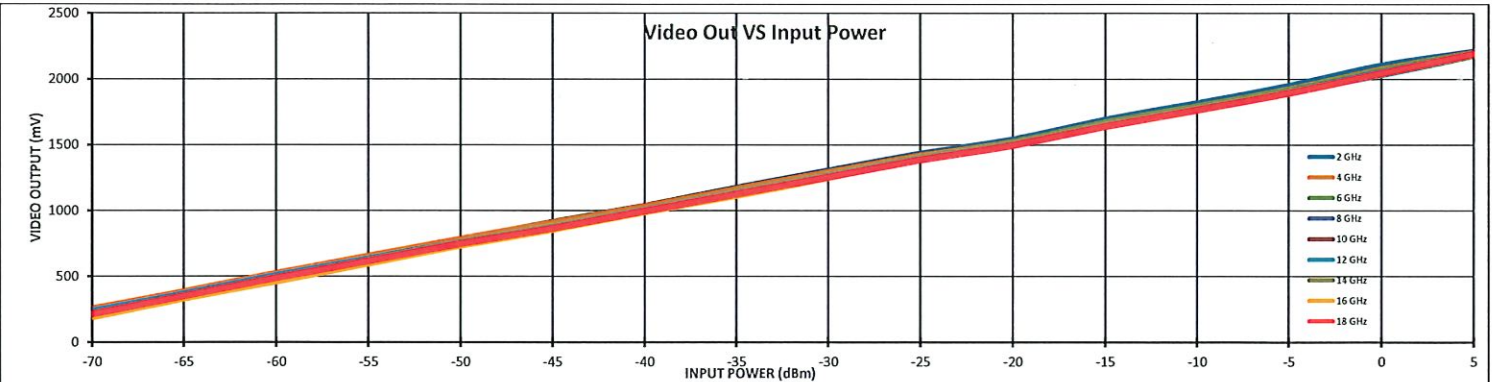
PL36334/2217

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36334/2217
Date: 4/28/2022
Tested By: RCombs
Test Temp: -40°C

Frequency	INTERCEPT (mV)	2089	-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)	26.2	251	382	521	654	784	916	1040	1178	1308	1438	1546	1696	1821	1953	2108	2214	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-6	-5	3	5	4	6	-2	5	4	3	-19	0	-5	-5	19	-6	ERROR (mV)
			-0.22	-0.21	0.12	0.19	0.15	0.19	-0.09	0.20	0.16	0.12	-0.72	-0.01	-0.21	-0.20	0.74	-0.23	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2064	258	387	526	657	786	913	1036	1171	1297	1423	1527	1674	1796	1926	2078	2206	Measured Value (mV)
	SLOPE (mV/dB)	25.7	-7	-6	5	7	7	6	0	6	4	1	-24	-5	-11	-10	14	13	ERROR (mV)
	LIN. ERR. (dB)	0.9	-0.28	-0.22	0.18	0.26	0.29	0.23	0.00	0.24	0.15	0.05	-0.92	-0.20	-0.43	-0.39	0.53	0.51	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2062	223	359	496	627	760	880	1009	1139	1271	1410	1524	1672	1794	1921	2073	2203	Measured Value (mV)
	SLOPE (mV/dB)	26.2	-4	1	6	6	9	-3	-4	-5	-5	3	-13	3	-6	-9	4	10	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.16	0.03	0.24	0.23	0.34	0.34	-0.11	-0.17	-0.21	-0.18	0.12	-0.51	0.13	-0.22	-0.36	0.42	0.39
8 GHz	INTERCEPT (mV)	2047	240	372	509	636	763	871	1001	1129	1261	1405	1516	1661	1783	1909	2058	2195	Measured Value (mV)
	SLOPE (mV/dB)	25.8	2	5	13	11	8	-13	-13	-13	-10	4	-14	2	5	-8	12	20	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.08	0.18	0.50	0.42	0.31	-0.52	-0.49	-0.51	-0.39	0.16	-0.53	0.09	-0.19	-0.31	0.46	0.76	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2044	226	360	496	624	755	869	1000	1127	1257	1398	1514	1660	1782	1908	2050	2189	Measured Value (mV)
	SLOPE (mV/dB)	26.0	-2	3	9	7	8	-7	-6	-9	-9	3	-12	5	-3	-7	6	15	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.07	0.11	0.34	0.28	0.32	-0.29	-0.25	-0.35	-0.34	0.10	-0.45	0.18	-0.12	-0.26	0.22	0.56	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2034	237	368	506	635	761	864	995	1120	1252	1398	1509	1651	1774	1900	2037	2183	Measured Value (mV)
	SLOPE (mV/dB)	25.7	0	3	13	13	10	-14	-12	-15	-11	6	-11	3	-3	-5	4	21	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.00	0.13	0.49	0.49	0.41	-0.56	-0.48	-0.59	-0.44	0.25	-0.43	0.11	-0.11	-0.21	0.14	0.81	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	2044	219	355	492	624	759	881	1011	1142	1273	1408	1511	1654	1776	1901	2041	2185	Measured Value (mV)
	SLOPE (mV/dB)	25.9	-12	-6	2	4	11	3	3	5	6	11	-14	-1	-8	-13	-2	12	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.48	-0.22	0.06	0.17	0.41	0.10	0.12	0.18	0.23	0.44	-0.55	-0.03	-0.32	-0.49	-0.08	0.46	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	2045	180	322	452	587	723	845	981	1105	1240	1386	1507	1651	1774	1900	2045	2193	Measured Value (mV)
	SLOPE (mV/dB)	26.6	-4	5	2	4	7	-3	0	-9	-7	6	-6	6	-5	-12	1	15	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.15	0.20	0.07	0.15	0.27	-0.12	-0.02	-0.34	-0.28	0.23	-0.23	0.21	-0.19	-0.44	0.04	0.58	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	2036	215	352	487	617	748	865	998	1126	1255	1387	1497	1641	1766	1894	2045	2193	Measured Value (mV)
	SLOPE (mV/dB)	25.9	-5	2	7	7	9	-3	0	-2	-3	0	-20	-6	-11	-12	9	27	ERROR (mV)
	LIN. ERR. (dB)	1.057	-0.18	0.07	0.29	0.29	0.36	-0.12	-0.01	-0.09	-0.10	-0.02	-0.76	-0.24	-0.42	-0.46	0.33	1.06	LINEARITY ERROR (dB)
Avg. Slope: 26 mV/dB			1.5	1.3	1.4	1.4	1.2	1.4	1.1	1.4	1.3	1	0.9	1.1	1.1	1.1	1.4	0.6	Flatness dB: ±1.5 dB

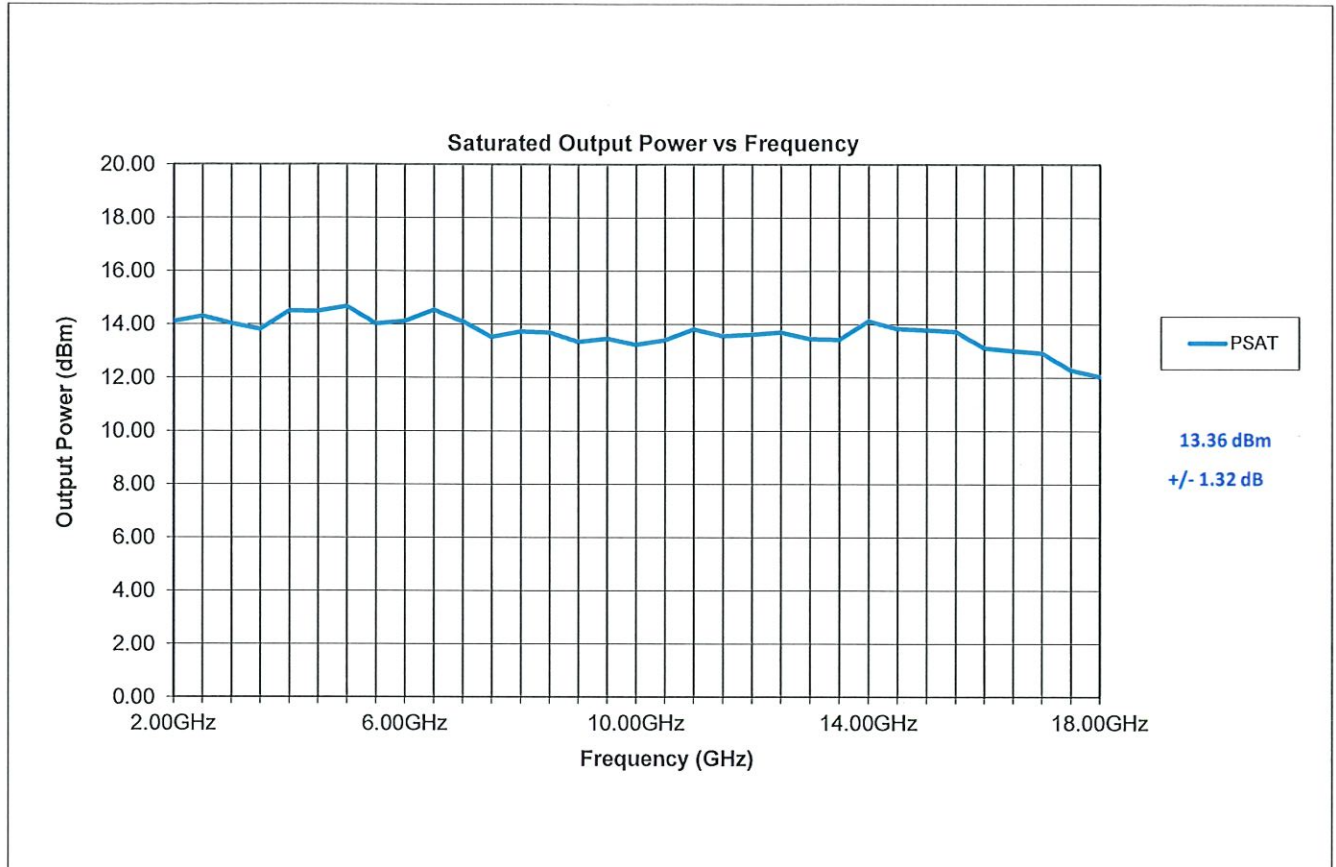




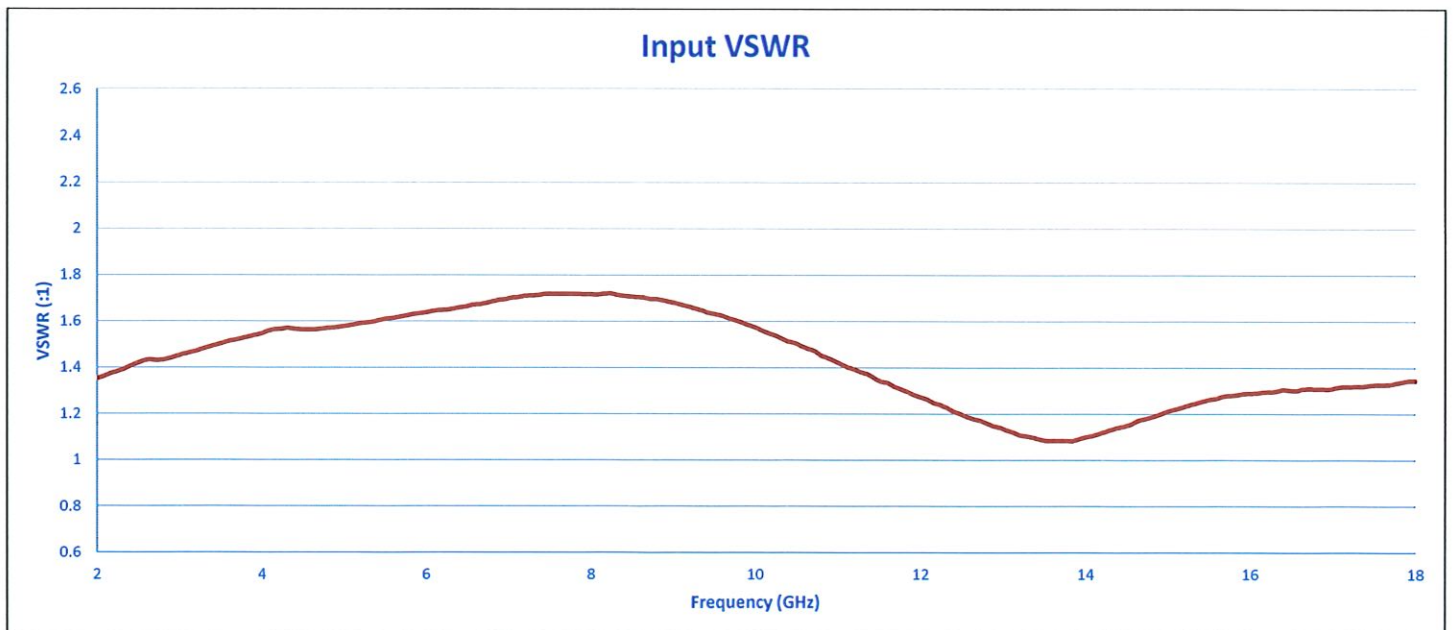
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36334/2217

PSAT



INPUT VSWR

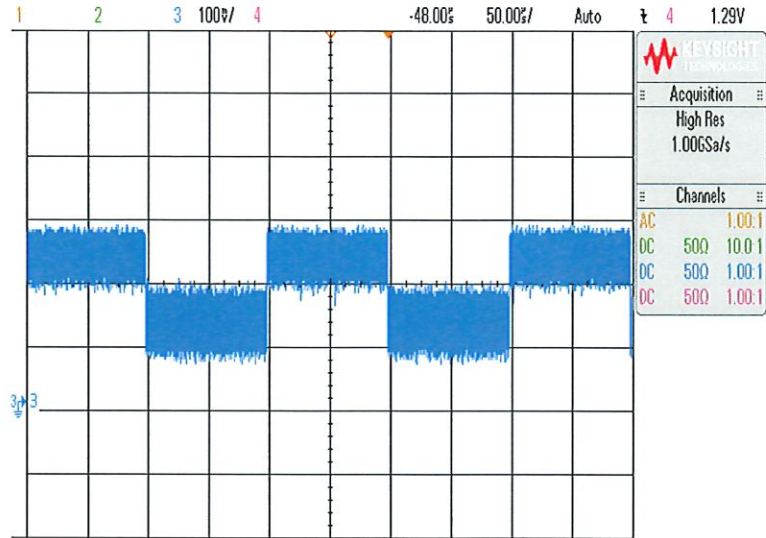




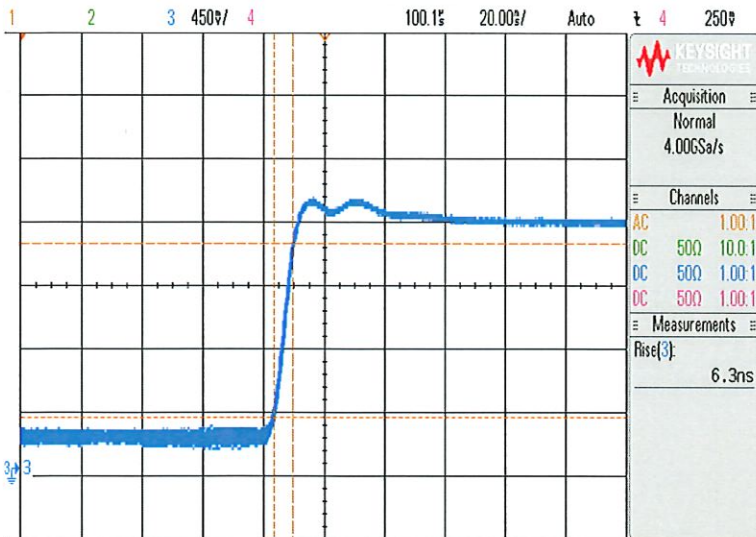
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36334/2217

TSS



Rise Time



Fall Time

