



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

PL36330/2217

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/22/2022
Serial No: PL36330/2217 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	±1.2 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	13.07 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.3 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)	±1.4 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.0 ns	
12	Recovery Time:	60 ns Typical	42.0 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 263 mA -12V @ 97 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: 4/25/2022



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

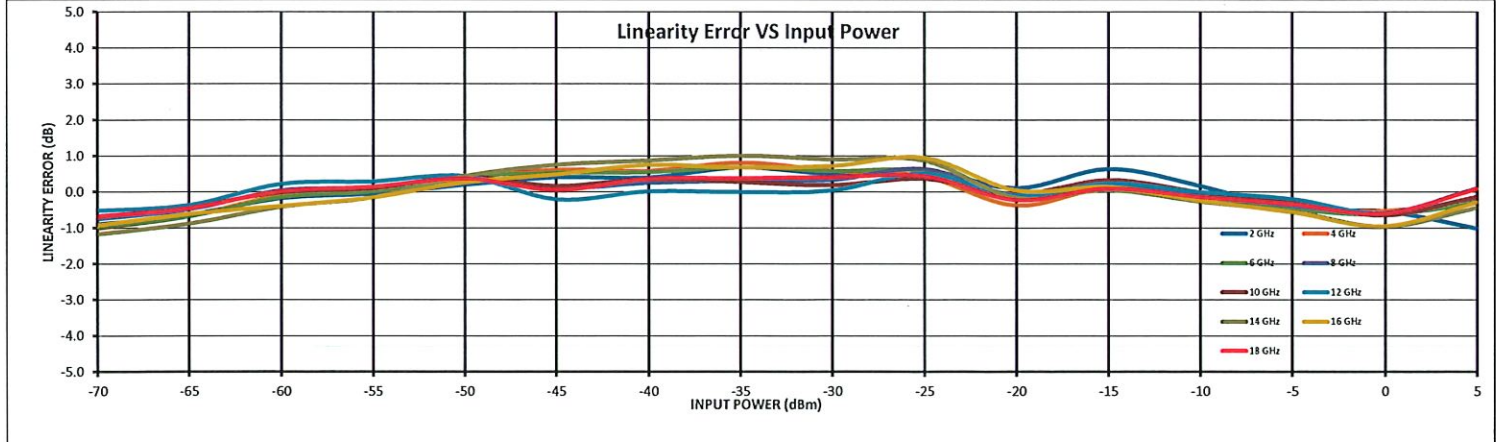
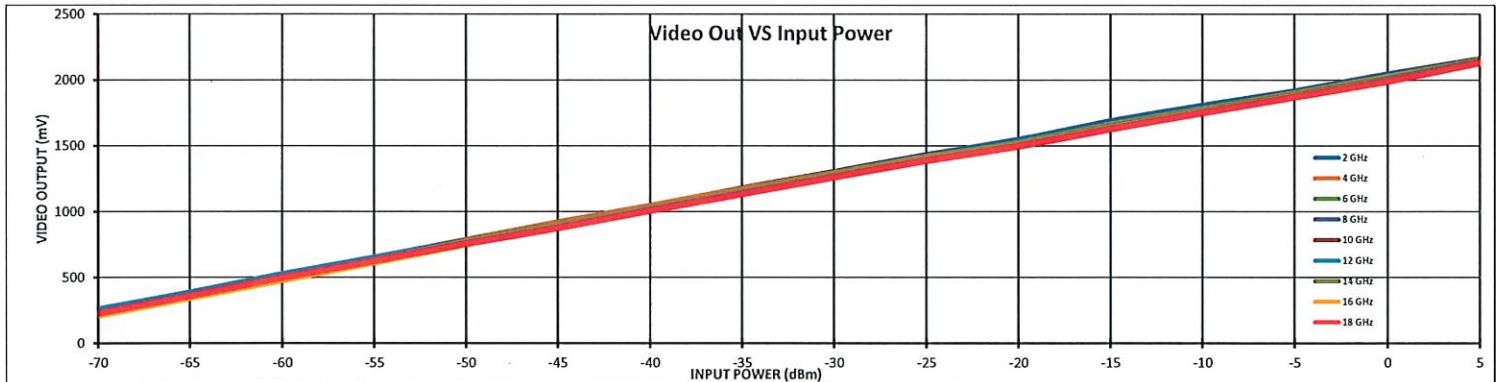
PL36330/2217

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36330/2217
 Date: 4/22/2022
 Tested By: RCombs
 Test Temp: +25°C

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)	2060	240	375	516	647	782	916	1044	1179	1303	1434	1550	1692	1808	1919	2047	2163	Measured Value (mV)
	SLOPE (mV/dB)	25.7	-23	-16	-4	-1	5	11	10	18	13	16	3	17	4	-13	-14	-26	ERROR (mV)
	LIN. ERR. (dB)	1.0	-0.90	-0.63	-0.17	-0.04	0.20	0.41	0.41	0.69	0.51	0.62	0.11	0.65	0.17	-0.49	-0.53	-1.01	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2040	248	383	524	653	788	920	1046	1178	1298	1420	1526	1665	1783	1903	2027	2160	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-25	-17	-3	1	10	16	15	21	15	11	-9	3	-5	-11	-13	-6	ERROR (mV)
	LIN. ERR. (dB)	1.0	-1.01	-0.67	-0.10	0.02	0.39	0.62	0.59	0.82	0.59	0.44	-0.37	0.13	-0.21	-0.45	-0.52	-0.26	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2035	239	373	513	644	781	910	1037	1167	1291	1417	1523	1661	1777	1897	2020	2154	Measured Value (mV)
	SLOPE (mV/dB)	25.3	-25	-17	-3	1	11	14	14	17	15	15	-6	5	-5	-12	-16	-8	ERROR (mV)
	LIN. ERR. (dB)	1.0	-0.99	-0.68	-0.14	0.02	0.43	0.53	0.56	0.69	0.59	0.58	-0.23	0.21	-0.20	-0.47	-0.61	-0.30	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	2021	240	372	511	659	773	891	1021	1148	1274	1408	1515	1650	1767	1886	2007	2143	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-19	-12	1	3	10	3	7	8	9	16	-2	7	-2	-9	-15	-4	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.74	-0.48	0.05	0.13	0.41	0.11	0.26	0.31	0.34	0.65	-0.09	0.26	-0.09	-0.37	-0.58	-0.16	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2014	229	362	499	628	762	882	1013	1137	1261	1392	1508	1644	1761	1881	1998	2137	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-17	-11	0	3	11	4	9	7	5	9	-1	8	0	-7	-16	-3	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.69	-0.42	-0.01	0.10	0.42	0.16	0.36	0.28	0.19	0.37	-0.05	0.33	-0.01	-0.26	-0.64	-0.13	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2007	255	383	522	648	776	884	1014	1138	1263	1399	1508	1641	1759	1878	1993	2134	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-13	-9	6	8	11	-5	1	0	1	13	-2	6	0	-5	-14	3	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.51	-0.36	0.23	0.30	0.45	-0.20	0.02	0.00	0.05	0.52	-0.08	0.24	0.00	-0.19	-0.58	0.11	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	2018	224	358	496	628	769	903	1032	1161	1285	1410	1510	1641	1769	1879	1994	2133	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-29	-22	-10	-4	11	19	22	26	23	22	-4	1	-7	-13	-24	-11	ERROR (mV)
	LIN. ERR. (dB)	1.2	-1.17	-0.88	-0.41	-0.14	0.45	0.76	0.88	1.01	0.90	0.88	-0.16	0.06	-0.26	-0.53	-0.96	-0.44	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	2018	201	337	471	605	744	878	1013	1139	1268	1402	1507	1637	1756	1876	1994	2139	Measured Value (mV)
	SLOPE (mV/dB)	25.6	-24	-15	-10	-4	7	13	19	17	19	24	1	4	-6	-14	-24	-7	ERROR (mV)
	LIN. ERR. (dB)	1.0	-0.92	-0.60	-0.39	-0.15	0.28	0.49	0.76	0.68	0.72	0.95	0.05	0.15	-0.24	-0.55	-0.95	-0.28	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	2006	230	361	499	627	759	877	1010	1136	1262	1389	1498	1632	1751	1872	1991	2134	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-17	-11	1	4	10	2	9	9	10	11	-6	3	-3	-8	-15	2	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.67	-0.45	0.02	0.14	0.38	0.06	0.37	0.38	0.41	0.44	-0.22	0.10	-0.14	-0.33	-0.59	0.09	LINEARITY ERROR (dB)
Avg. Slope: 25.3 mV/dB		1.1	0.9	1	0.9	0.9	0.9	0.7	0.9	0.8	0.9	1	1.2	1.1	0.9	1.1	0.6	Flatness dB: ±1.2 dB	





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

PL36330/2217

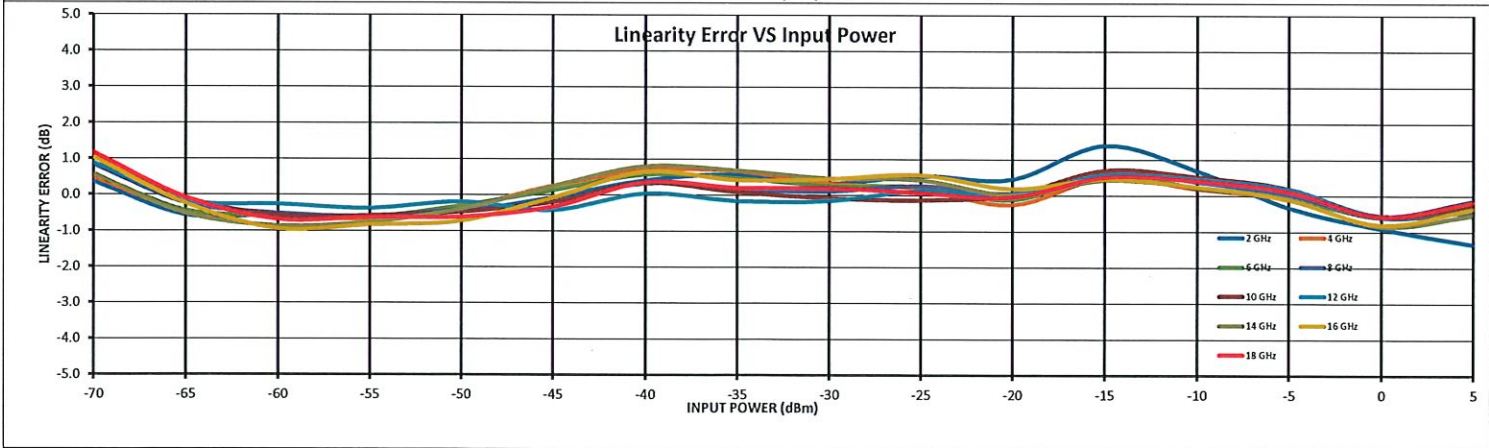
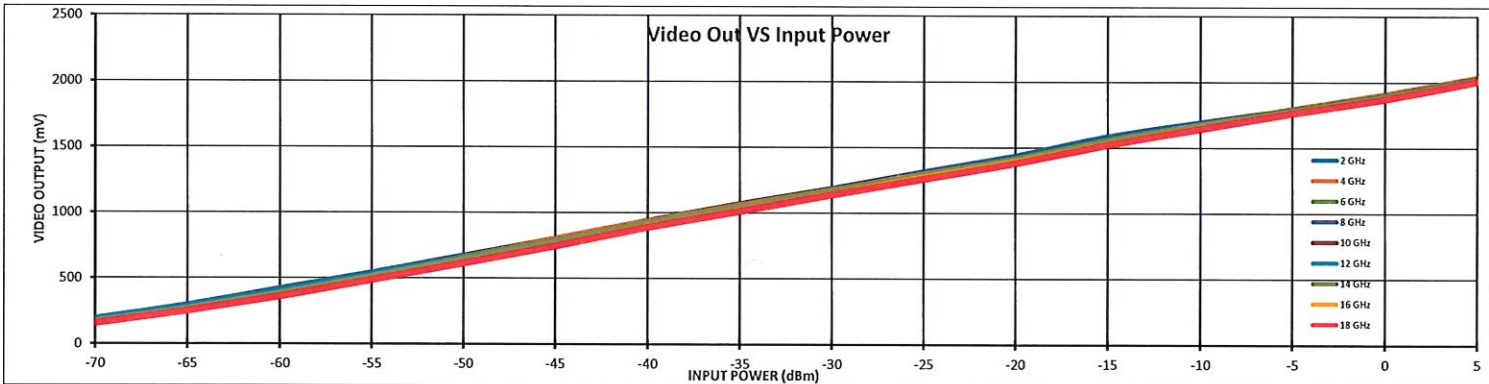
Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36330/2217
Date: 4/22/2022
Tested By: RCombs
Test Temp: +85°C

Frequency	INTERCEPT (mV)	1924	-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)	24.8	195	297	421	543	672	805	941	1070	1188	1317	1439	1587	1694	1792	1902	2015	Measured Value (mV)
	LIN. ERR. (dB)	1.4	9	-14	-14	-16	-11	-2	10	15	8	14	11	35	17	-8	-22	-33	ERROR (mV)
			0.37	-0.56	-0.55	-0.62	-0.45	-0.06	0.41	0.59	0.34	0.55	0.46	1.40	0.70	-0.32	-0.90	-1.34	LINEARITY ERROR (dB)
4 GHz	SLOPE (mV/dB)	25.0	184	285	407	530	663	804	939	1064	1181	1303	1416	1561	1678	1797	1910	2037	Measured Value (mV)
	LIN. ERR. (dB)	0.7	12	-11	-14	-17	-9	7	17	17	8	5	-6	13	5	-2	-14	-11	ERROR (mV)
			0.49	-0.46	-0.57	-0.67	-0.36	0.26	0.69	0.68	0.33	0.20	-0.25	0.51	0.20	-0.06	-0.54	-0.45	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	25.0	181	281	403	527	660	796	931	1054	1174	1298	1414	1557	1673	1791	1902	2031	Measured Value (mV)
	LIN. ERR. (dB)	0.6	14	-11	-14	-15	-7	4	14	12	7	6	-3	15	6	-1	-15	-11	ERROR (mV)
			0.56	-0.43	-0.56	-0.61	-0.29	0.14	0.58	0.48	0.27	0.24	-0.11	0.59	0.24	-0.05	-0.59	-0.43	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	25.0	173	271	389	512	643	773	911	1032	1156	1285	1406	1546	1664	1781	1890	2020	Measured Value (mV)
	LIN. ERR. (dB)	0.8	21	-6	-13	-15	-10	-5	8	4	3	7	2	17	10	1	-15	-10	ERROR (mV)
			0.84	-0.23	-0.51	-0.59	-0.39	-0.19	0.33	0.17	0.12	0.27	0.07	0.67	0.39	0.04	-0.59	-0.40	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	25.1	162	259	372	498	626	759	898	1017	1139	1263	1392	1535	1656	1774	1880	2013	Measured Value (mV)
	LIN. ERR. (dB)	1.1	27	-2	-14	-14	-12	-5	9	2	-2	-3	1	18	13	5	-14	-7	ERROR (mV)
			1.06	-0.09	-0.57	-0.58	-0.47	-0.19	0.34	0.09	-0.08	-0.13	0.02	0.71	0.52	0.20	-0.57	-0.27	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	24.7	184	282	403	524	652	770	905	1024	1148	1278	1400	1537	1657	1774	1880	2014	Measured Value (mV)
	LIN. ERR. (dB)	0.9	22	-4	-6	-9	-5	-10	1	-4	-4	3	1	14	12	5	-13	-3	ERROR (mV)
			0.88	-0.15	-0.25	-0.37	-0.19	-0.41	0.05	-0.15	-0.15	0.13	0.04	0.58	0.47	0.19	-0.54	-0.13	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	25.0	168	266	382	510	644	785	924	1046	1166	1290	1405	1540	1661	1778	1883	2016	Measured Value (mV)
	LIN. ERR. (dB)	0.9	15	-13	-21	-19	-10	6	20	17	12	11	1	11	6	-2	-21	-13	ERROR (mV)
			0.59	-0.51	-0.86	-0.75	-0.39	0.25	0.80	0.69	0.48	0.43	0.02	0.44	0.25	-0.07	-0.84	-0.53	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	25.4	152	247	356	486	615	759	904	1026	1153	1283	1401	1535	1656	1774	1883	2022	Measured Value (mV)
	LIN. ERR. (dB)	1.0	26	-6	-24	-21	-18	-2	17	11	12	14	5	12	6	-3	-20	-9	ERROR (mV)
			1.04	-0.24	-0.94	-0.83	-0.72	-0.06	0.65	0.43	0.46	0.57	0.19	0.46	0.25	-0.11	-0.80	-0.35	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	25.2	166	250	361	488	614	747	890	1012	1138	1260	1383	1523	1646	1764	1873	2009	Measured Value (mV)
	LIN. ERR. (dB)	1.2	30	-2	-17	-15	-15	-8	9	5	5	2	-1	13	11	3	-14	-4	ERROR (mV)
			1.18	-0.07	-0.68	-0.62	-0.61	-0.32	0.36	0.21	0.20	0.07	-0.04	0.52	0.42	0.12	-0.57	-0.17	LINEARITY ERROR (dB)

Avg. Slope: 25 mV/dB 0.9 1 1.3 1.1 1.1 1.2 1 1.2 1 1.1 1.1 1.3 0.9 0.6 0.7 0.6 Flatness dB: ±1.3 dB





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

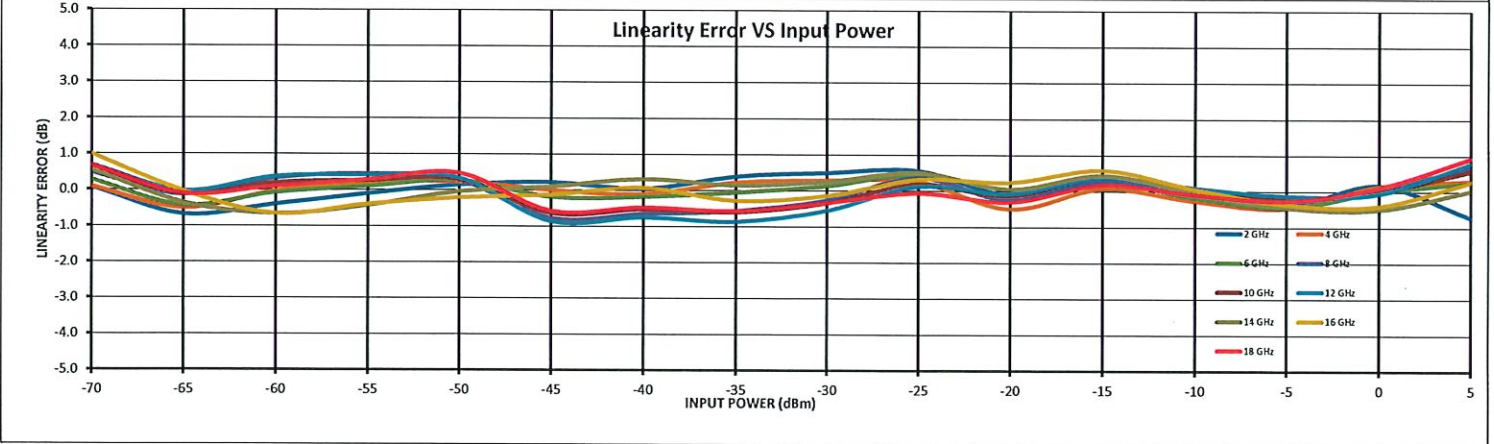
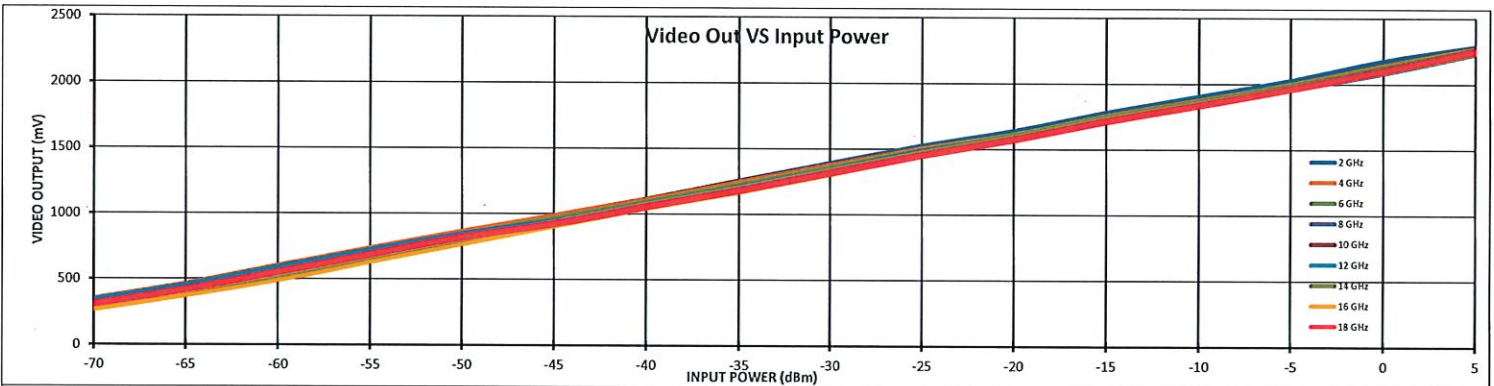
PL36330/2217

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36330/2217
 Date: 4/22/2022
 Tested By: RCombs
 Test Temp: -40°C

Frequency	INTERCEPT (mV)	2170	-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)	26.5	319	431	570	711	850	984	1112	1253	1389	1523	1637	1780	1903	2026	2174	2283	Measured Value (mV)
	LIN. ERR. (dB)	0.7	3	-18	-10	-3	4	6	1	10	13	16	-3	8	-2	-11	5	-19	ERROR (mV)
				0.09	-0.67	-0.39	-0.10	0.16	0.23	0.05	0.39	0.50	0.57	-0.11	0.29	-0.07	-0.41	0.18	-0.71
4 GHz	SLOPE (mV/dB)	21.36	347	459	599	734	882	984	1109	1246	1376	1503	1611	1754	1874	1996	2140	2272	Measured Value (mV)
	LIN. ERR. (dB)	0.5	3	-13	-1	6	6	0	-3	6	7	7	-13	2	-7	-12	4	8	ERROR (mV)
			0.10	-0.51	-0.03	0.22	0.24	0.01	-0.11	0.22	0.28	0.26	-0.50	0.08	-0.26	-0.46	0.15	0.30	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	21.28	329	440	578	712	845	962	1091	1224	1358	1494	1605	1748	1866	1988	2128	2264	Measured Value (mV)
	LIN. ERR. (dB)	0.4	8	-11	-2	3	7	-5	-5	-1	4	11	-7	7	-4	-11	0	7	ERROR (mV)
			0.29	-0.42	-0.07	0.11	0.28	-0.18	-0.17	-0.05	0.14	0.43	-0.26	0.25	-0.17	-0.44	0.00	0.26	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	21.09	343	454	593	723	846	946	1076	1206	1340	1483	1595	1735	1853	1976	2112	2254	Measured Value (mV)
	LIN. ERR. (dB)	0.8	13	-3	8	12	7	-20	-16	-14	-7	9	-6	7	-2	-8	3	17	ERROR (mV)
			0.49	-0.13	0.33	0.46	0.28	-0.77	-0.65	-0.56	-0.26	0.37	-0.24	0.27	-0.07	-0.30	0.10	0.68	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	21.06	328	437	573	703	832	937	1068	1194	1328	1470	1590	1732	1851	1973	2106	2249	Measured Value (mV)
	LIN. ERR. (dB)	0.6	16	-3	5	7	8	-16	-13	-15	-9	5	-3	10	1	-5	0	15	ERROR (mV)
			0.62	-0.12	0.20	0.26	0.29	-0.64	-0.52	-0.60	-0.35	0.19	-0.13	0.40	0.03	-0.21	0.00	0.57	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	20.96	334	443	580	708	834	930	1060	1184	1319	1464	1586	1725	1844	1966	2094	2243	Measured Value (mV)
	LIN. ERR. (dB)	0.9	18	-1	10	11	9	-22	-19	-22	-14	3	-2	10	3	-3	-1	20	ERROR (mV)
			0.70	-0.02	0.38	0.42	0.34	-0.86	-0.75	-0.86	-0.55	0.13	-0.07	0.40	0.10	-0.11	-0.05	0.79	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	21.13	284	392	516	654	795	931	1068	1195	1330	1468	1588	1730	1849	1970	2100	2245	Measured Value (mV)
	LIN. ERR. (dB)	0.7	15	-9	-17	-11	-1	3	8	4	7	14	1	12	-1	-12	-13	1	ERROR (mV)
			0.55	-0.35	-0.66	-0.42	-0.04	0.11	0.32	0.15	0.26	0.52	0.06	0.45	-0.03	-0.44	-0.50	0.03	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	21.09	264	370	487	628	765	902	1041	1165	1303	1449	1580	1723	1843	1965	2098	2250	Measured Value (mV)
	LIN. ERR. (dB)	1.0	27	-1	-18	-10	-5	-3	2	-8	-4	9	7	16	2	-10	-11	7	ERROR (mV)
			1.00	-0.03	-0.66	-0.39	-0.20	-0.12	0.07	-0.28	-0.14	0.32	0.25	0.59	0.07	-0.36	-0.40	0.27	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	20.99	310	419	553	687	821	923	1054	1181	1316	1452	1575	1717	1839	1964	2102	2252	Measured Value (mV)
	LIN. ERR. (dB)	0.928	18	-3	3	7	12	-15	-12	-16	-9	-2	-8	5	-2	-7	3	24	ERROR (mV)
			0.68	-0.10	0.10	0.29	0.47	-0.58	-0.48	-0.57	-0.33	-0.06	-0.30	0.18	-0.08	-0.26	0.11	0.93	LINEARITY ERROR (dB)
Avg. Slope: 25.9 mV/dB			1.6	1.7	2.2	2	1.9	1.6	1.4	1.7	1.7	1.4	1.2	1.2	1.2	1.2	1.5	0.8	Flatness dB: ±2.2 dB

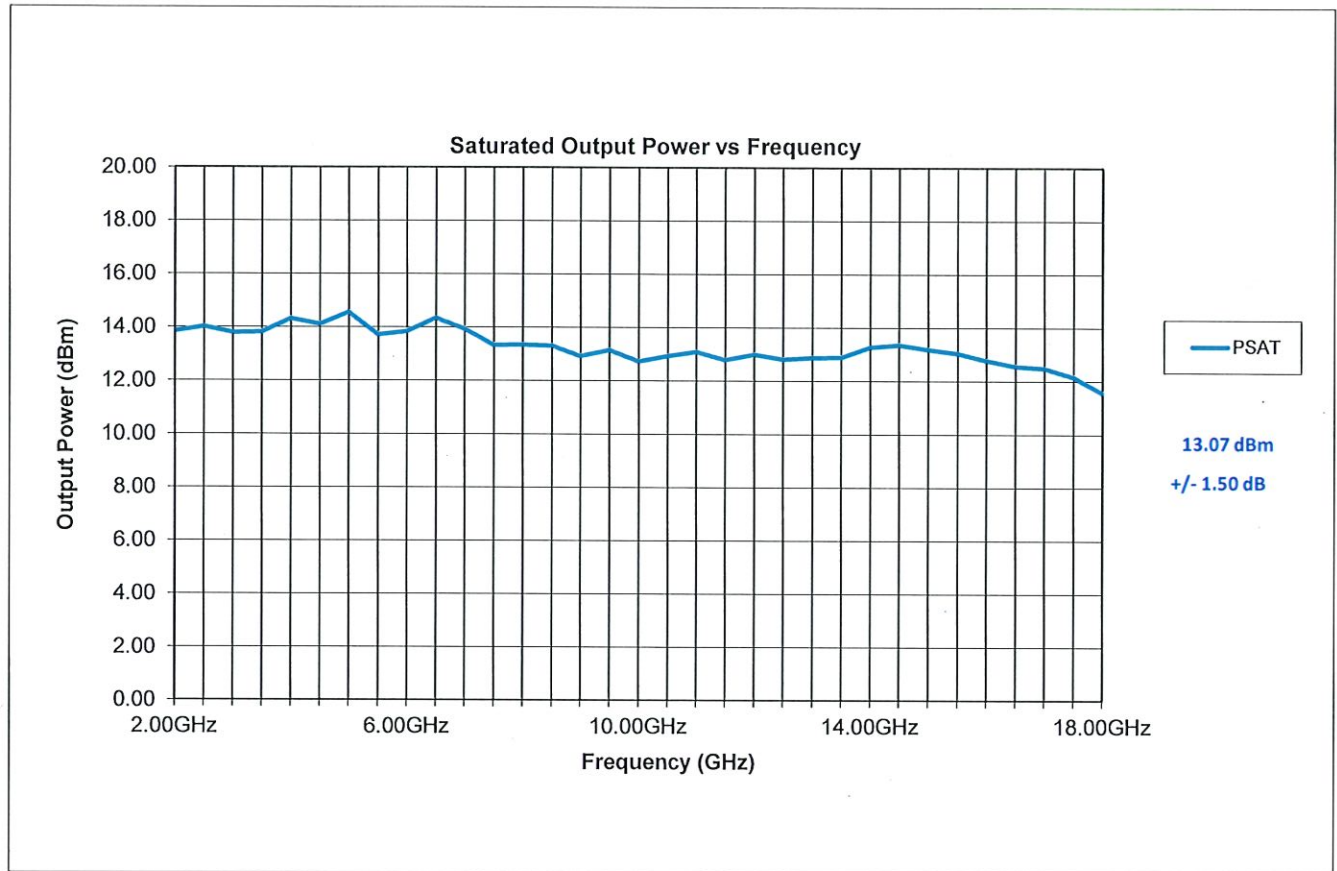




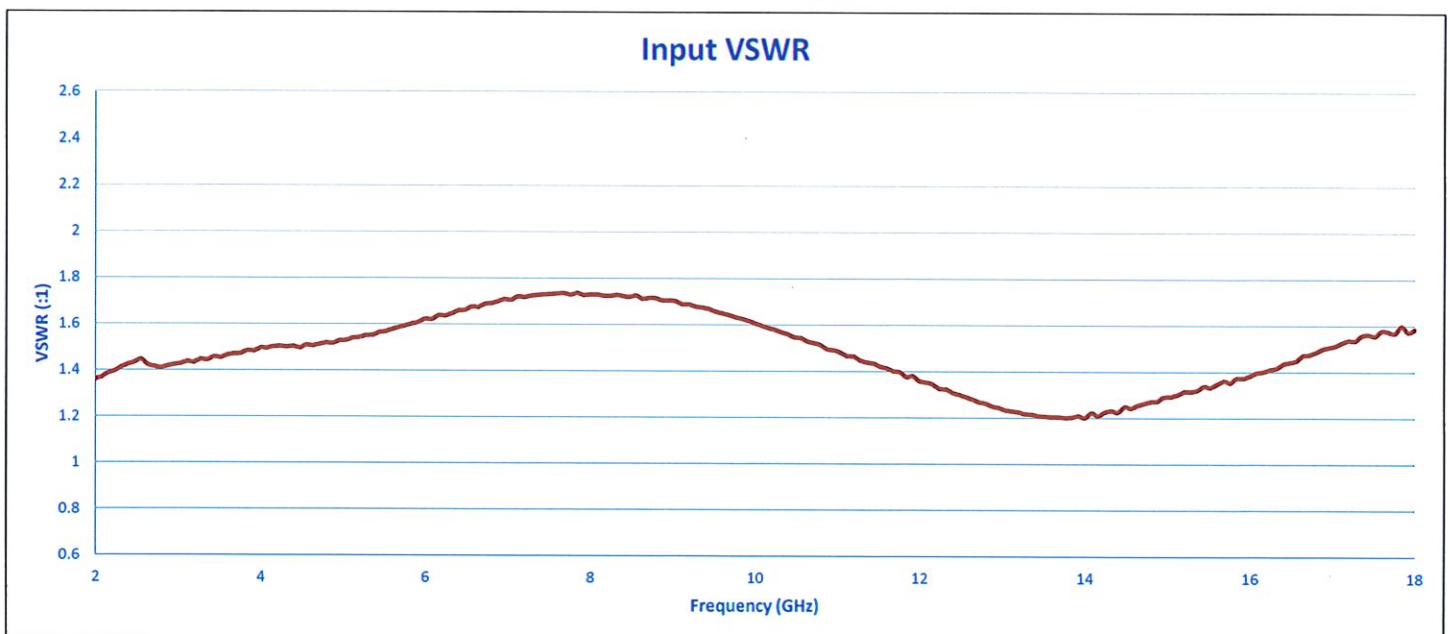
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36330/2217

PSAT



INPUT VSWR

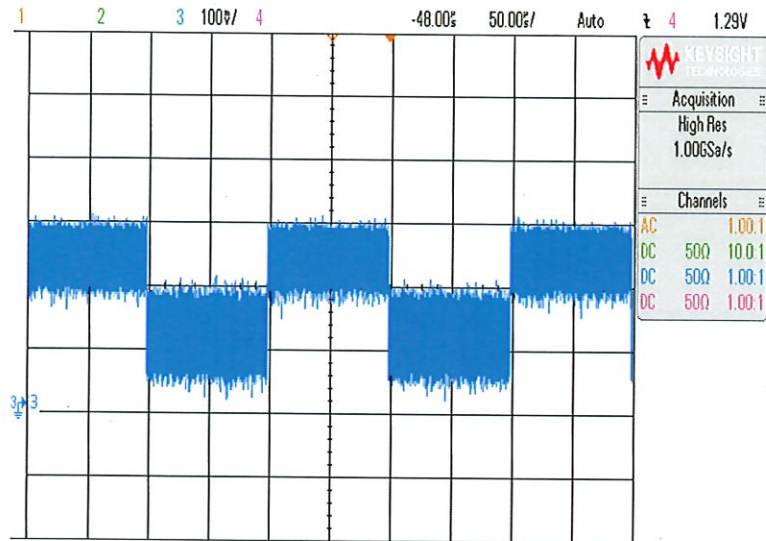




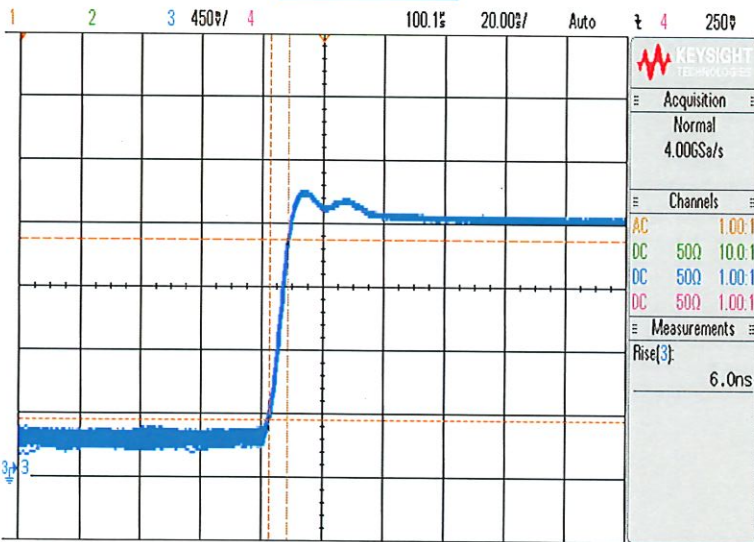
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36330/2217

TSS



Rise Time



Fall Time

