



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

PL36647/2221

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 6/2/2022
Serial No: PL36647/2221 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	±1.3 dB 25°C See Plots	
3	TSS:	-70 dBm Minimum	-72 dBm	
4	VSWR:	2.0:1 (Input)	1.8:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	11.80 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)	±1.8 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	46.3 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 256 mA -12V @ 97 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: 6/2/2022



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

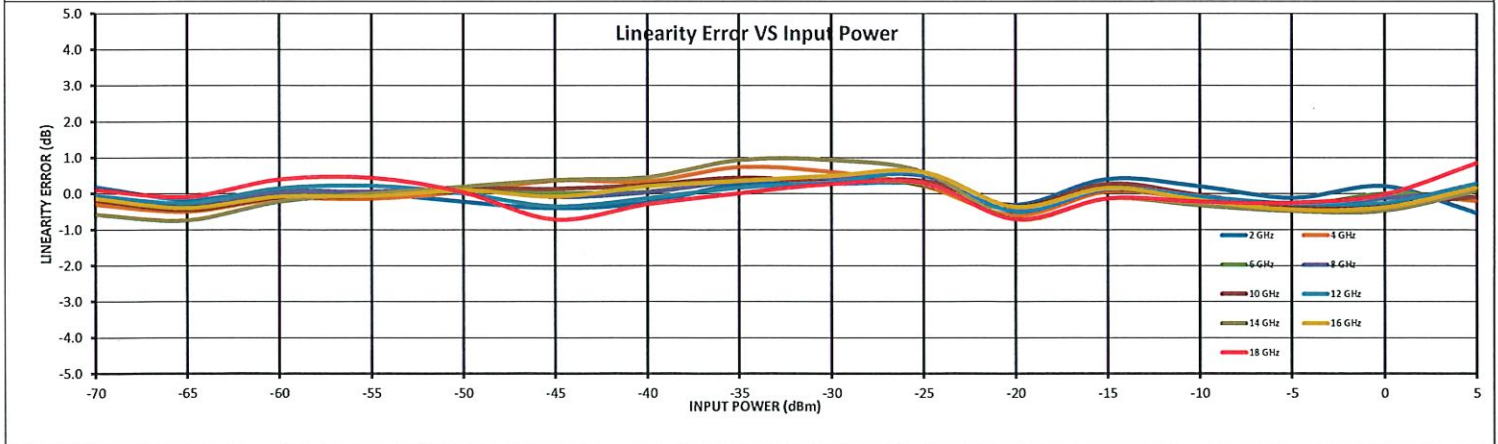
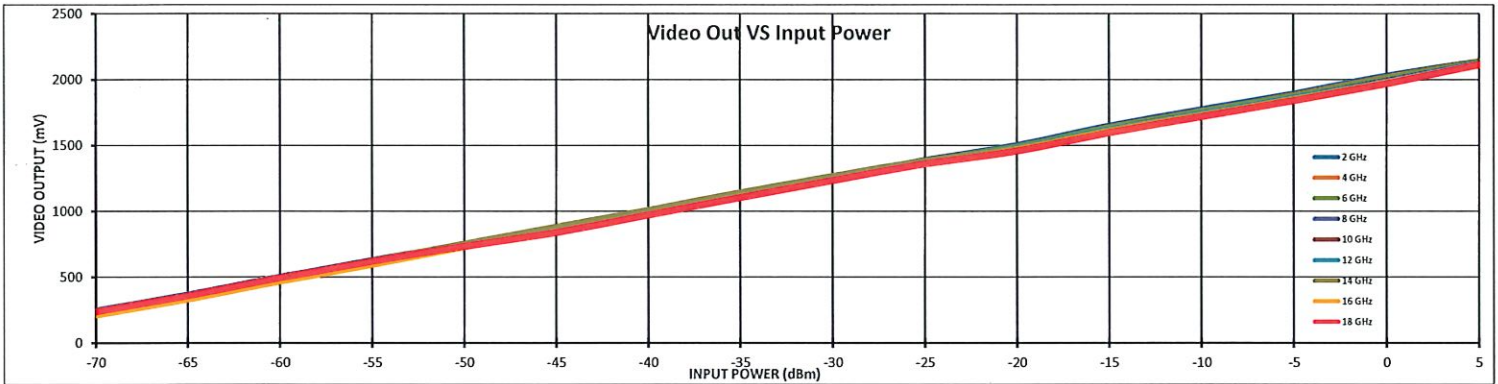
PL36647/2221

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36647/2221
 Date: 6/2/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																Measured Value (mV)	ERROR (mV)	LINEARITY ERROR (dB)																
2 GHz	2028	25.8	0.5	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	230	350	485	612	735	859	992	1134	1263	1392	1505	1653	1776	1897	2034	2143	2028	-14	-0.53
																	230	350	485	612	735	859	992	1134	1263	1392	1505	1653	1776	1897	2034	2143	2028	-14	-0.53			
																	0.19	-0.15	0.09	0.02	-0.22	-0.40	-0.24	0.27	0.28	0.28	-0.30	0.42	0.21	-0.11	0.21	-0.53						
4 GHz	2021	25.5	0.7	225	348	485	613	745	881	1008	1146	1270	1388	1495	1639	1761	1884	2021	2143	225	348	485	613	745	881	1008	1146	1270	1388	1495	1639	1761	1884	2021	2143	2021	-5	-0.20
																	225	348	485	613	745	881	1008	1146	1270	1388	1495	1639	1761	1884	2021	2143	2021	-5	-0.20			
																	-0.30	-0.50	-0.14	-0.14	0.06	0.37	0.34	0.75	0.61	0.22	-0.61	0.06	-0.15	-0.35	-0.01	-0.20						
6 GHz	2016	25.5	0.4	227	349	486	614	742	869	997	1133	1261	1385	1495	1639	1759	1880	2016	2141	227	349	486	614	742	869	997	1133	1261	1385	1495	1639	1759	1880	2016	2141	2016	-2	-0.09
																	227	349	486	614	742	869	997	1133	1261	1385	1495	1639	1759	1880	2016	2141	2016	-2	-0.09			
																	-0.13	-0.36	0.00	0.03	0.06	0.03	0.06	0.38	0.39	0.26	-0.45	0.22	-0.08	-0.33	0.00	-0.09						
8 GHz	2000	25.3	0.5	227	348	484	612	739	860	990	1124	1253	1381	1482	1624	1743	1864	1997	2129	227	348	484	612	739	860	990	1124	1253	1381	1482	1624	1743	1864	1997	2129	2000	3	0.10
																	227	348	484	612	739	860	990	1124	1253	1381	1482	1624	1743	1864	1997	2129	2000	3	0.10			
																	-0.15	-0.38	0.03	0.06	0.11	-0.09	0.04	0.36	0.43	0.50	-0.49	0.13	-0.16	-0.39	-0.12	0.10						
10 GHz	2001	25.4	0.5	216	338	472	600	733	860	990	1122	1246	1374	1483	1626	1745	1865	1994	2126	216	338	472	600	733	860	990	1122	1246	1374	1483	1626	1745	1865	1994	2126	2001	-2	-0.09
																	216	338	472	600	733	860	990	1122	1246	1374	1483	1626	1745	1865	1994	2126	2001	-2	-0.09			
																	-0.18	-0.45	-0.11	-0.08	0.15	0.14	0.25	0.45	0.32	0.36	-0.36	0.28	-0.05	-0.35	-0.28	-0.09						
12 GHz	1987	24.9	0.6	246	365	500	626	745	860	990	1122	1249	1380	1478	1618	1737	1856	1981	2119	246	365	500	626	745	860	990	1122	1249	1380	1478	1618	1737	1856	1981	2119	1987	7	0.29
																	246	365	500	626	745	860	990	1122	1249	1380	1478	1618	1737	1856	1981	2119	1987	7	0.29			
																	-0.05	-0.25	0.15	0.22	0.01	-0.34	-0.12	0.18	0.31	0.56	-0.49	0.14	-0.08	-0.27	-0.25	0.29						
14 GHz	1987	24.8	0.9	236	356	493	623	751	880	1006	1142	1266	1382	1473	1611	1731	1851	1975	2113	236	356	493	623	751	880	1006	1142	1266	1382	1473	1611	1731	1851	1975	2113	1987	2	0.08
																	236	356	493	623	751	880	1006	1142	1266	1382	1473	1611	1731	1851	1975	2113	1987	2	0.08			
																	-0.57	-0.73	-0.22	0.02	0.20	0.39	0.46	0.94	0.94	0.61	-0.71	-0.13	-0.32	-0.48	-0.47	0.08						
16 GHz	1991	25.5	0.6	202	323	459	586	718	841	976	1107	1238	1359	1471	1612	1731	1852	1981	2123	202	323	459	586	718	841	976	1107	1238	1359	1471	1612	1731	1852	1981	2123	1991	4	0.17
																	202	323	459	586	718	841	976	1107	1238	1359	1471	1612	1731	1852	1981	2123	1991	4	0.17			
																	-0.13	-0.39	-0.05	-0.07	0.10	-0.07	0.21	0.36	0.50	0.61	-0.36	0.16	-0.18	-0.45	-0.33	0.17						
18 GHz	1971	24.8	0.9	240	359	495	620	733	839	973	1104	1235	1359	1458	1596	1718	1841	1971	2116	240	359	495	620	733	839	973	1104	1235	1359	1458	1596	1718	1841	1971	2116	1971	21	0.86
																	240	359	495	620	733	839	973	1104	1235	1359	1458	1596	1718	1841	1971	2116	1971	21	0.86			
																	0.11	-0.08	0.39	0.44	0.04	-0.72	-0.29	0.02	0.27	0.30	-0.71	-0.13	-0.22	-0.25	-0.02	0.86						
Avg. Slope: 25.3 mV/dB				0.9 0.8 0.8 0.8 0.7 0.8 0.7 0.8 0.7 0.6 0.9 1.1 1.2 1.1 1.3 0.6																Flatness dB: ±1.3 dB																		





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

PL36647/2221

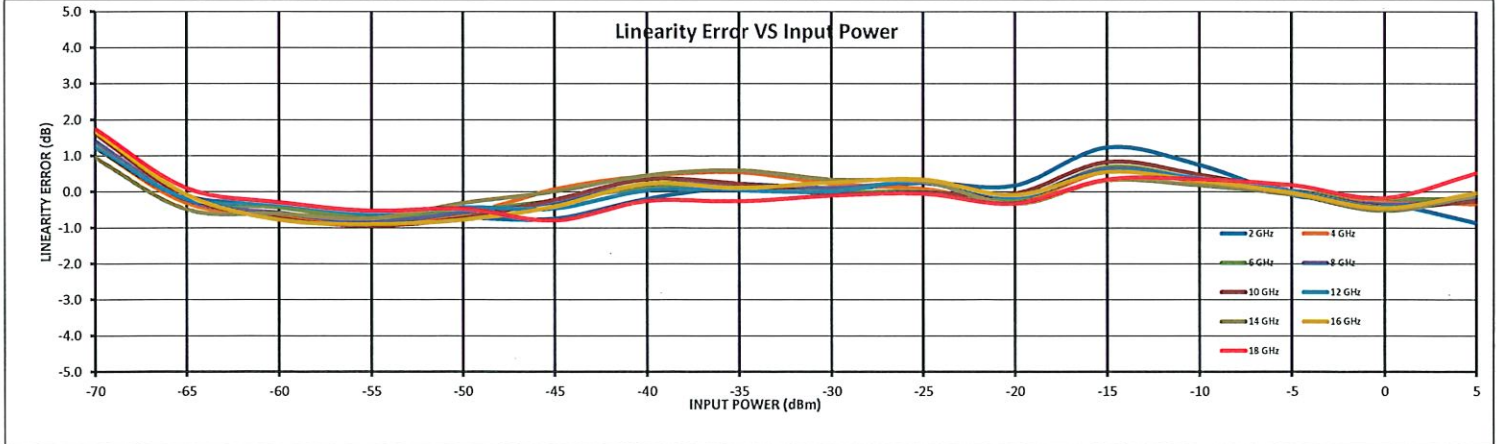
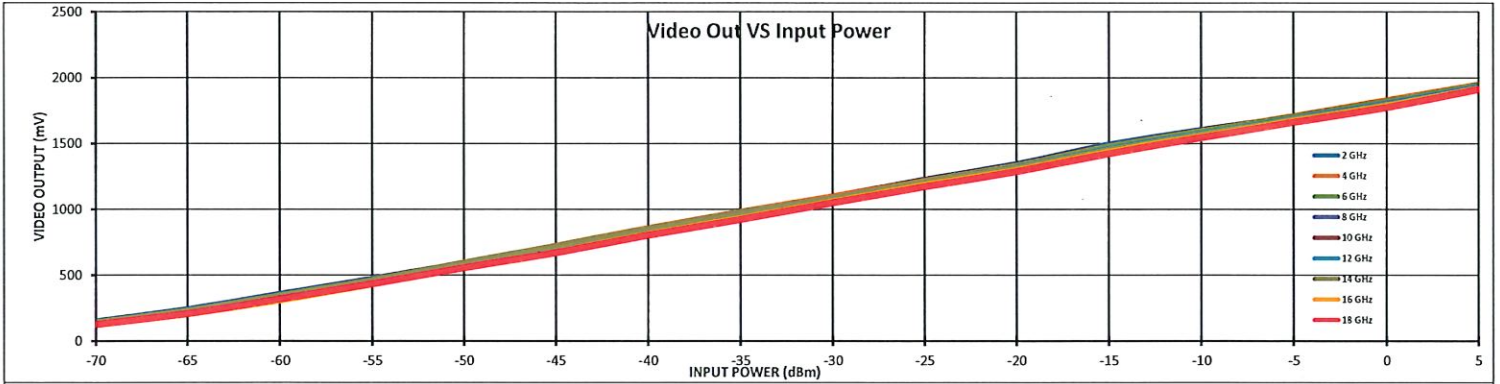
Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36647/2221
 Date: 6/2/2022
 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	1831	24.4	1.3	155	243	360	475	594	715	851	981	1101	1228	1348	1496	1606	1707	1824	1932	Measured Value (mV)	
				31	-3	-7	-15	-17	-18	-5	4	1	6	4	30	18	-2	-7	-21		Error (mV)
				1.26	-0.12	-0.30	-0.61	-0.70	-0.74	-0.19	0.14	0.05	0.26	0.18	1.24	0.75	-0.08	-0.30	-0.86		LINEARITY ERROR (dB)
4 GHz	1837	24.7	1.2	138	223	339	455	586	727	860	986	1102	1222	1336	1481	1597	1712	1832	1953	Measured Value (mV)	
				30	-8	-16	-23	-16	2	11	13	6	2	-7	14	7	-2	-6	-8		Error (mV)
				1.23	-0.32	-0.64	-0.92	-0.65	0.07	0.44	0.54	0.23	0.08	-0.27	0.57	0.27	-0.07	-0.23	-0.34		LINEARITY ERROR (dB)
6 GHz	1829	24.6	1.3	140	226	343	459	587	716	848	972	1091	1214	1332	1477	1592	1707	1824	1947	Measured Value (mV)	
				33	-4	-11	-18	-13	-6	3	3	0	0	-5	17	9	1	-4	-5		Error (mV)
				1.34	-0.18	-0.44	-0.72	-0.51	-0.25	0.12	0.14	-0.01	0.02	-0.21	0.69	0.36	0.03	-0.18	-0.19		LINEARITY ERROR (dB)
8 GHz	1815	24.6	1.4	130	213	327	443	573	703	838	961	1081	1207	1321	1463	1578	1691	1807	1933	Measured Value (mV)	
				35	-5	-14	-21	-14	-7	5	6	3	6	-3	16	8	-1	-8	-5		Error (mV)
				1.42	-0.22	-0.58	-0.84	-0.57	-0.29	0.22	0.22	0.11	0.25	-0.13	0.64	0.34	-0.04	-0.34	-0.19		LINEARITY ERROR (dB)
10 GHz	1812	24.7	1.6	120	201	310	428	557	693	831	952	1068	1193	1316	1461	1576	1689	1801	1929	Measured Value (mV)	
				40	-3	-18	-23	-18	-5	9	6	-1	0	-1	21	12	1	-10	-6		Error (mV)
				1.62	-0.14	-0.73	-0.94	-0.73	-0.22	0.35	0.22	-0.06	-0.01	-0.05	0.83	0.48	0.04	-0.41	-0.26		LINEARITY ERROR (dB)
12 GHz	1804	24.1	1.2	144	230	347	461	586	706	839	960	1080	1208	1317	1455	1571	1684	1793	1923	Measured Value (mV)	
				30	-5	-8	-15	-10	-11	1	1	0	8	-3	14	9	1	-10	-1		Error (mV)
				1.24	-0.20	-0.33	-0.61	-0.43	-0.46	0.04	0.04	0.01	0.32	-0.14	0.58	0.37	0.03	-0.43	-0.05		LINEARITY ERROR (dB)
14 GHz	1801	24.0	0.9	141	227	344	461	592	720	851	974	1088	1207	1312	1448	1565	1679	1788	1919	Measured Value (mV)	
				23	-12	-14	-18	-7	0	11	14	8	7	-8	8	4	-2	-13	-2		Error (mV)
				0.94	-0.49	-0.60	-0.73	-0.31	0.01	0.46	0.60	0.34	0.29	-0.33	0.32	0.18	-0.07	-0.53	-0.09		LINEARITY ERROR (dB)
16 GHz	1803	24.7	1.7	115	195	301	421	548	681	820	941	1058	1194	1307	1446	1564	1679	1792	1926	Measured Value (mV)	
				42	-2	-19	-22	-19	-10	6	3	6	9	-2	14	8	0	-11	-1		Error (mV)
				1.69	-0.07	-0.78	-0.90	-0.78	-0.40	0.23	0.11	0.26	0.35	-0.09	0.55	0.31	-0.02	-0.45	-0.03		LINEARITY ERROR (dB)
18 GHz	1779	24.2	1.8	126	207	319	434	557	670	804	925	1050	1172	1287	1424	1546	1663	1775	1913	Measured Value (mV)	
				42	2	-7	-13	-11	-19	-6	-6	-3	-1	-8	8	8	5	-4	13		Error (mV)
				1.75	0.10	-0.29	-0.53	-0.47	-0.80	-0.25	-0.27	-0.10	-0.05	-0.32	0.35	0.35	0.19	-0.17	0.52		LINEARITY ERROR (dB)

Avg. Slope: 24.5 mV/dB 0.8 1 1.2 1.1 0.9 1.2 1.1 1.2 1.1 1.1 1.1 1.2 1.5 1.2 1.0 1.2 0.8 Flatness dB: ±1.5 dB





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

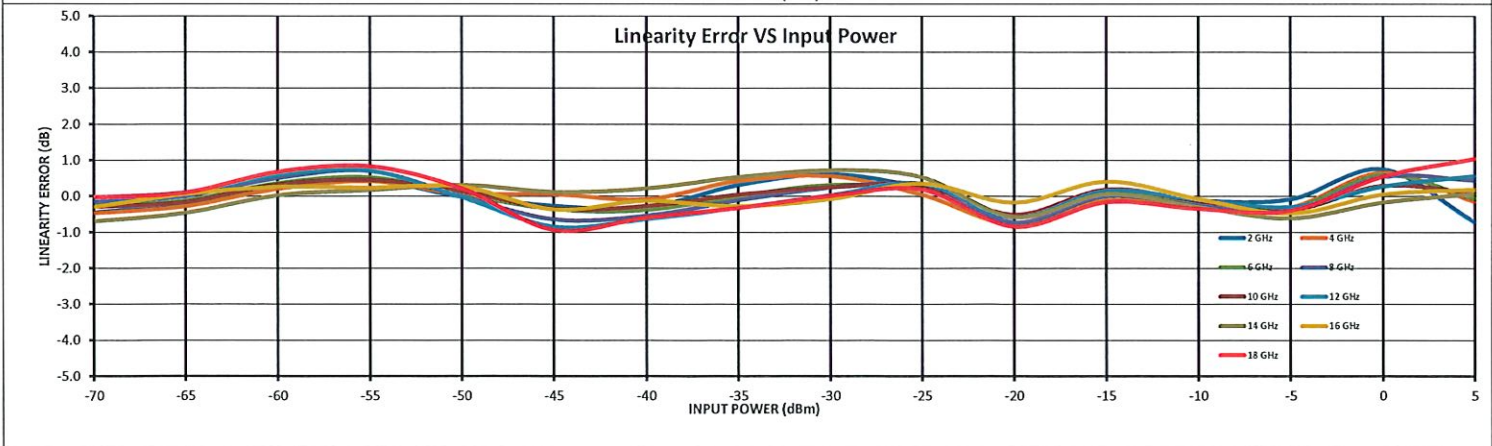
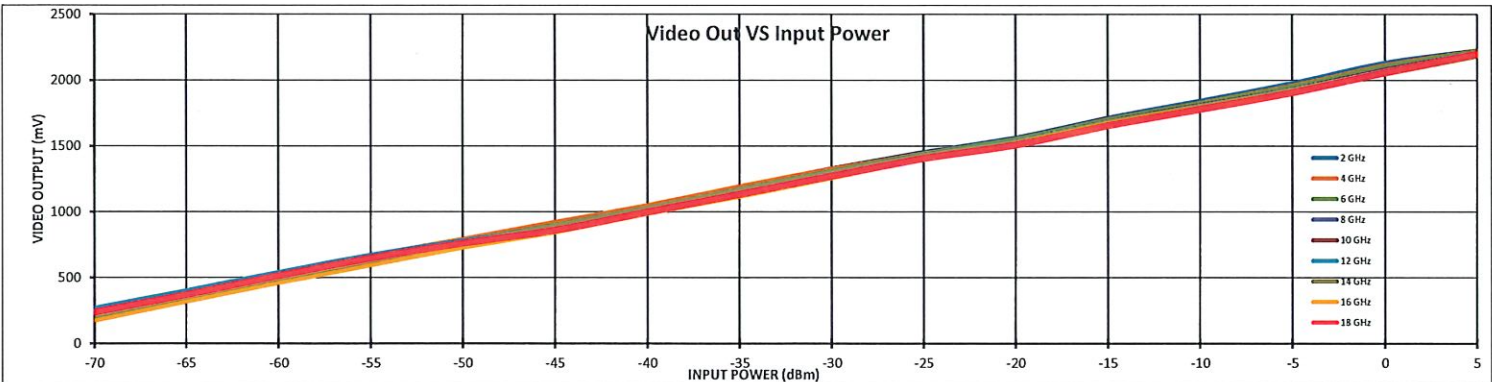
PL36647/2221

Log Transfer Over Frequency -40°C

Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36647/2221
Date: 6/2/2022
Tested By: RCombs
Test Temp: -40°C



Frequency	INTERCEPT (mV)	2109	-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)	26.7	231	371	518	655	776	903	1035	1185	1326	1449	1561	1710	1840	1974	2130	2224	Measured Value (mV)	
	LIN. ERR. (dB)	0.8	-12	-5	8	12	0	-7	-8	8	17	6	-16	0	-3	-2	20	-19	Error (mV)	
			-0.45	-0.19	0.29	0.46	-0.01	-0.26	-0.32	0.32	0.62	0.24	-0.57	0.02	-0.12	-0.07	0.76	-0.71	Linearity Error (dB)	
4 GHz	SLOPE (mV/dB)	26.1	252	387	531	667	788	919	1045	1190	1324	1441	1550	1698	1824	1954	2110	2220	Measured Value (mV)	
	LIN. ERR. (dB)	0.8	-12	-7	5	11	2	-2	-2	11	15	1	-20	-3	-8	-8	17	-4	Error (mV)	
			-0.47	-0.28	0.21	0.42	0.07	0.06	-0.09	0.43	0.57	0.05	-0.78	-0.11	-0.29	-0.31	0.66	-0.14	Linearity Error (dB)	
6 GHz	SLOPE (mV/dB)	26.2	245	379	523	658	777	898	1028	1169	1309	1437	1549	1696	1820	1948	2103	2217	Measured Value (mV)	
	LIN. ERR. (dB)	0.6	-7	-3	10	14	2	-9	-10	0	8	5	-14	3	-4	-8	16	-2	Error (mV)	
			-0.26	-0.12	0.37	0.53	0.06	-0.36	-0.38	0.01	0.32	0.20	-0.53	0.10	-0.17	-0.32	0.61	-0.06	Linearity Error (dB)	
8 GHz	SLOPE (mV/dB)	25.8	259	392	534	668	778	891	1022	1162	1300	1431	1533	1680	1803	1927	2081	2207	Measured Value (mV)	
	LIN. ERR. (dB)	0.7	-4	0	13	18	0	-17	-14	-3	6	8	-19	0	-6	-10	14	12	Error (mV)	
			-0.15	0.01	0.51	0.71	0.00	-0.64	-0.54	-0.10	0.25	0.33	-0.72	0.01	-0.25	-0.40	0.54	0.45	Linearity Error (dB)	
10 GHz	SLOPE (mV/dB)	26.1	239	373	516	650	772	889	1022	1160	1296	1428	1537	1685	1808	1931	2079	2204	Measured Value (mV)	
	LIN. ERR. (dB)	0.5	-7	-4	9	12	4	-9	-7	1	7	8	-13	5	-3	-10	8	2	Error (mV)	
			-0.29	-0.16	0.33	0.46	0.14	-0.34	-0.28	0.05	0.25	0.30	-0.52	0.19	-0.13	-0.38	0.30	0.09	Linearity Error (dB)	
12 GHz	SLOPE (mV/dB)	25.6	260	392	532	664	773	880	1014	1150	1287	1424	1528	1675	1797	1920	2062	2198	Measured Value (mV)	
	LIN. ERR. (dB)	0.8	-1	3	15	18	-1	-22	-16	-8	1	9	-15	4	-2	-8	7	15	Error (mV)	
			-0.02	0.11	0.59	0.71	-0.03	-0.84	-0.63	-0.31	0.03	0.36	-0.59	0.16	-0.09	-0.29	0.28	0.57	Linearity Error (dB)	
14 GHz	SLOPE (mV/dB)	26.2	211	348	492	627	761	887	1020	1160	1295	1421	1523	1671	1792	1915	2057	2195	Measured Value (mV)	
	LIN. ERR. (dB)	0.7	-18	-12	1	5	8	3	6	14	19	14	-16	2	-8	-10	-4	2	Error (mV)	
			-0.69	-0.46	0.03	0.17	0.32	0.12	0.22	0.54	0.72	0.54	-0.58	0.07	-0.30	-0.61	-0.17	0.07	Linearity Error (dB)	
16 GHz	SLOPE (mV/dB)	26.9	173	318	457	591	726	844	985	1115	1255	1401	1521	1671	1793	1916	2065	2203	Measured Value (mV)	
	LIN. ERR. (dB)	0.5	-8	2	7	6	7	-10	-3	-7	-2	10	-5	11	-2	-13	1	5	Error (mV)	
			-0.30	0.07	0.26	0.24	0.27	-0.37	-0.12	-0.27	-0.08	0.36	-0.17	0.41	-0.07	-0.47	0.05	0.19	Linearity Error (dB)	
18 GHz	SLOPE (mV/dB)	25.8	239	371	515	648	761	860	998	1134	1272	1406	1508	1655	1779	1907	2060	2202	Measured Value (mV)	
	LIN. ERR. (dB)	1.043	-1	3	18	21	6	-24	-15	-8	0	5	-22	-4	-9	-10	14	27	Error (mV)	
			-0.03	0.10	0.68	0.83	0.22	-0.94	-0.59	-0.32	0.01	0.19	-0.84	-0.16	-0.35	-0.40	0.56	1.04	Linearity Error (dB)	
Avg. Slope: 26.2 mV/dB			1.7	1.4	1.5	1.5	1.2	1.4	1.2	1.4	1.4	1.4	0.9	1	1.1	1.2	1.3	1.4	0.6	Flatness dB: -11.7 dB

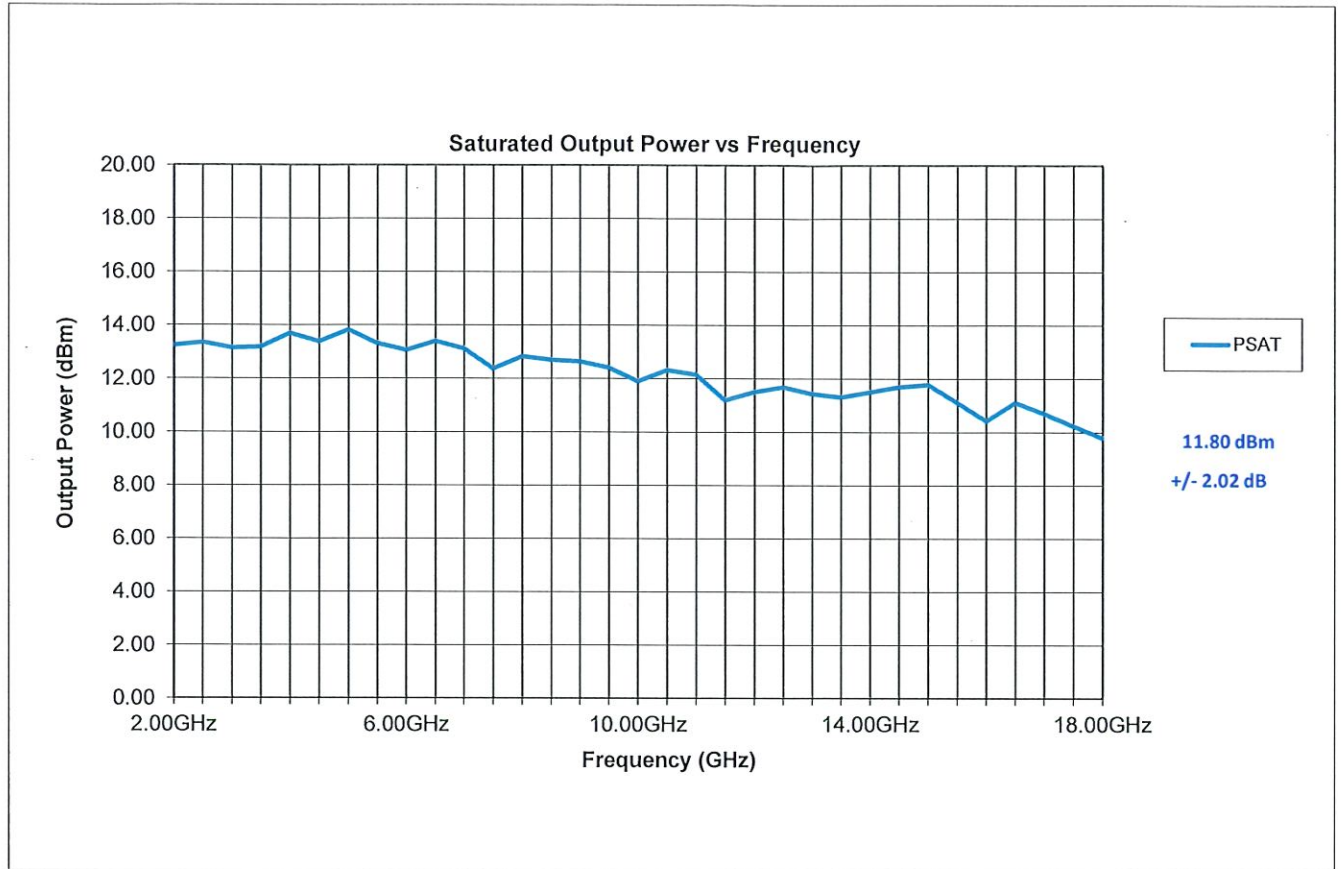




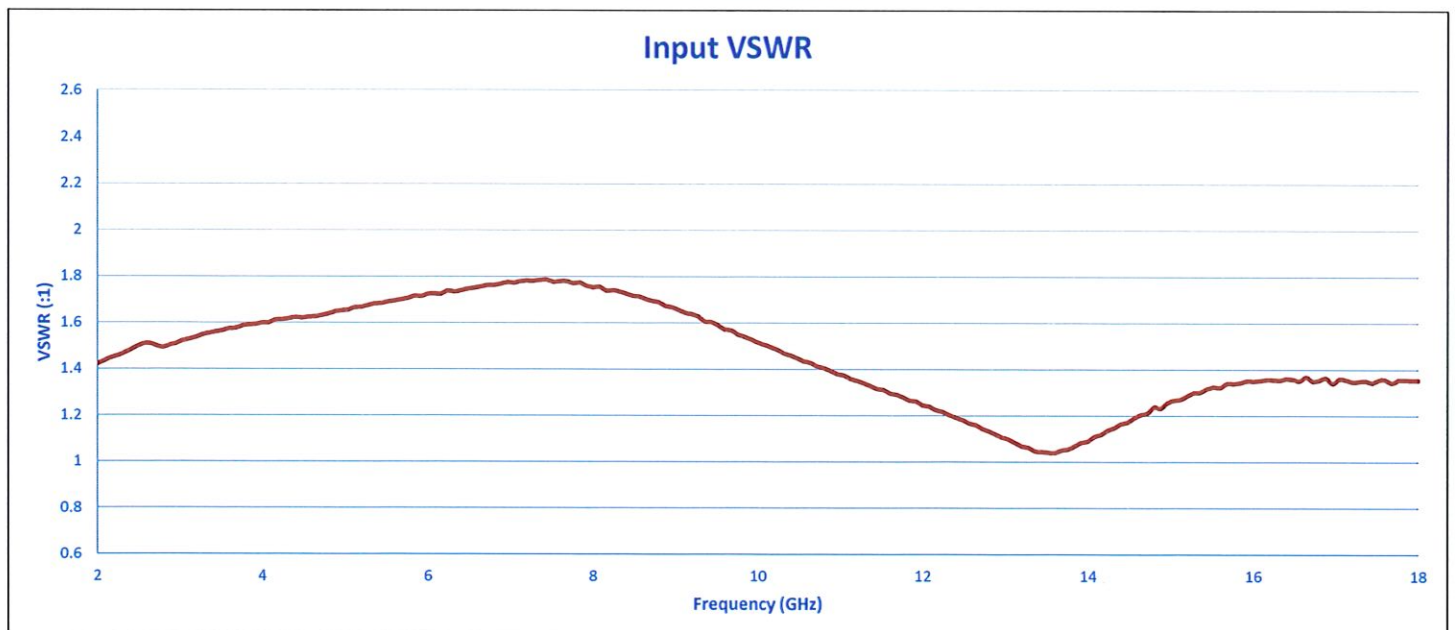
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36647/2221

PSAT



INPUT VSWR

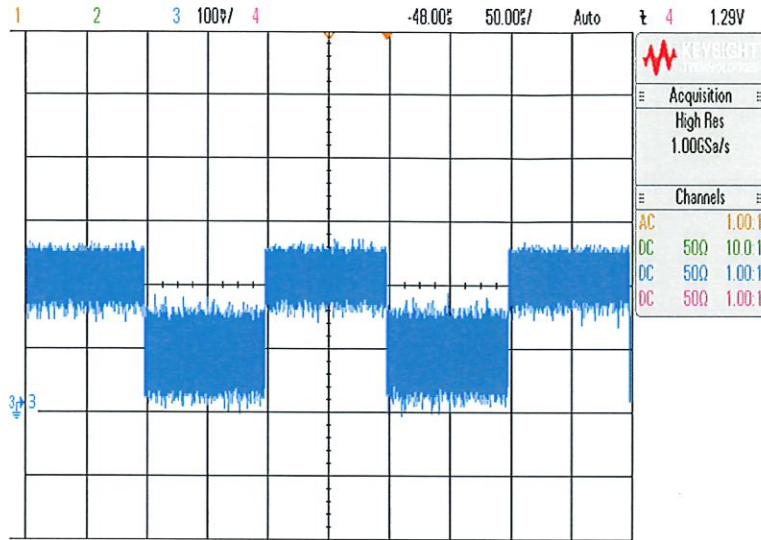




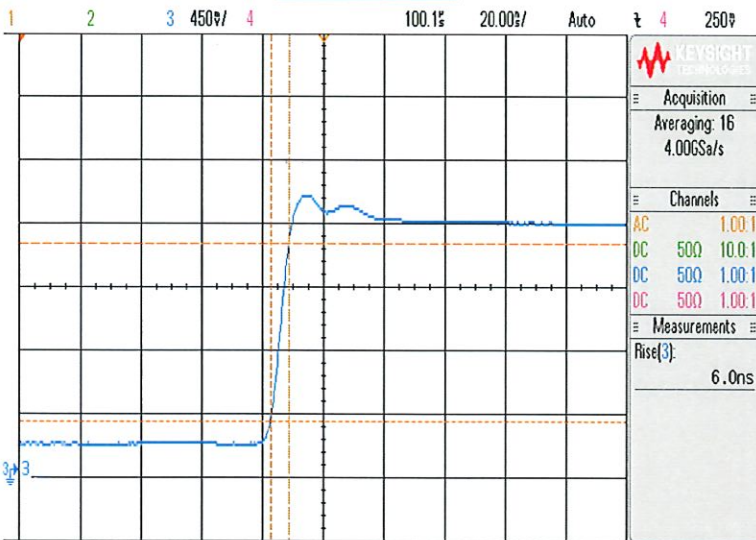
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36647/2221

TSS



Rise Time



Fall Time

