



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

PL37922/2239

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/18/2022
Serial No: PL37922/2239 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 QA2
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)	1.5:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	12.55 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)	±2.1 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.5 ns	
12	Recovery Time:	60 ns Typical	76.3 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 250 mA -12V @ 91 mA	PMI QA2

QA/QC Approval: PMI QA2 Date: 10/27/2022



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

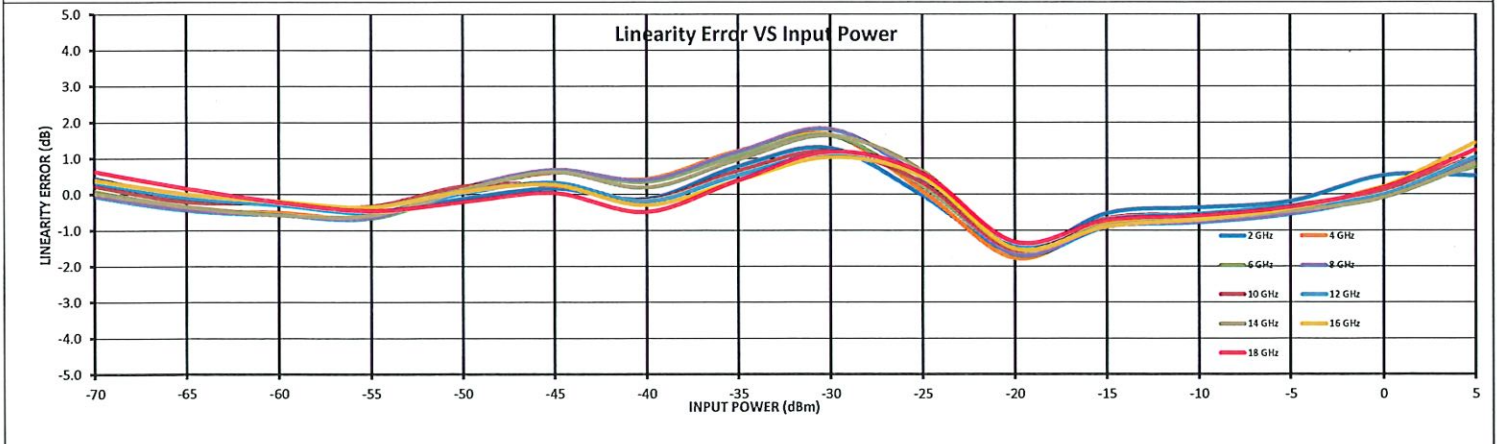
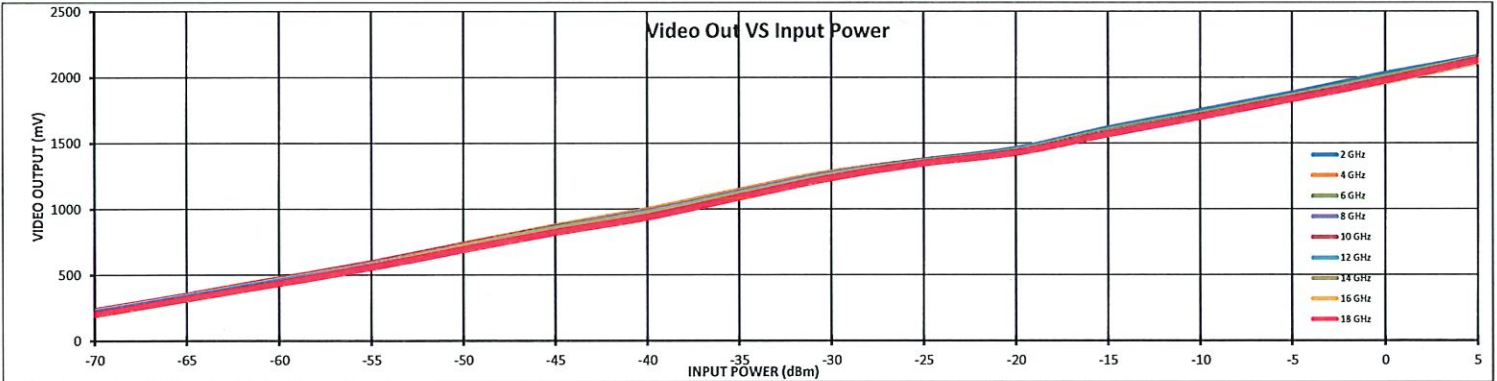
PL37922/2239

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37922/2239
 Date: 10/18/2022
 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	2013	25.7	1.6	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	229	343	467	589	727	863	984	1135	1277	1371	1459	1615	1747	1880	2027	2155	2155	0	0.52													
	12			-2	-7	-13	-3	5	-3	20	33	-1	-41	-13	-9	-5	14	13	0.46	-0.08	-0.27	-0.49	-0.11	0.18	-0.12	0.78	1.29	-0.02	-1.60	-0.52	-0.36	-0.18	0.53	0.52																	
																	216	331	453	573	712	846	958	1102	1243	1355	1431	1575	1704	1836	1970	2122																			
4 GHz	1999	25.4	1.8	226	341	464	588	734	873	995	1142	1280	1367	1446	1597	1727	1860	2004	2148	2	-10	-13	-16	3	16	11	31	42	2	-45	-21	-18	-12	5	22	0.10	-0.39	-0.51	-0.63	0.13	0.61	0.42	1.21	1.66	0.09	-1.77	-0.83	-0.71	-0.46	0.21	0.88
																	215	332	454	579	725	867	987	1134	1275	1368	1449	1598	1727	1858	2003	2146																			
																	0.08	-0.34	-0.55	-0.66	0.08	0.64	0.35	1.08	1.64	0.25	-1.58	-0.72	-0.67	-0.52	0.13	0.76																			
6 GHz	1999	25.5	1.6	215	332	454	579	725	867	987	1134	1275	1368	1449	1598	1727	1858	2003	2146	2	-9	-14	-17	2	16	9	28	42	6	-40	-18	-17	-13	3	19	0.08	-0.34	-0.55	-0.66	0.08	0.64	0.35	1.08	1.64	0.25	-1.58	-0.72	-0.67	-0.52	0.13	0.76
																	217	334	456	581	728	866	985	1131	1273	1364	1437	1583	1712	1844	1983	2133																			
																	-1	-11	-14	-16	5	17	10	30	46	11	-42	-23	-20	-14	-1	23																			
8 GHz	1984	25.0	1.8	217	334	456	581	728	866	985	1131	1273	1364	1437	1583	1712	1844	1983	2133	-1	-11	-14	-16	5	17	10	30	46	11	-42	-23	-20	-14	-1	23	-0.05	-0.44	-0.57	-0.65	0.19	0.69	0.40	1.19	1.82	0.44	-1.67	-0.90	-0.78	-0.55	-0.03	0.91
																	234	348	473	595	734	860	974	1120	1258	1361	1439	1586	1715	1845	1981	2129																			
																	6	-5	-6	-8	6	6	-4	16	30	8	-39	-17	-14	-8	3	26																			
10 GHz	1978	25.0	1.6	234	348	473	595	734	860	974	1120	1258	1361	1439	1586	1715	1845	1981	2129	6	-5	-6	-8	6	6	-4	16	30	8	-39	-17	-14	-8	3	26	0.24	-0.21	-0.23	-0.34	0.23	0.26	-0.16	0.65	1.19	0.32	-1.56	-0.68	-0.55	-0.32	0.11	1.05
																	216	331	453	573	712	846	958	1102	1243	1355	1431	1575	1704	1836	1970	2122																			
																	9	-2	-7	-12	1	8	-5	14	28	15	-35	-18	-14	-8	0	26																			
12 GHz	1970	25.2	1.4	216	331	453	573	712	846	958	1102	1243	1355	1431	1575	1704	1836	1970	2122	9	-2	-7	-12	1	8	-5	14	28	15	-35	-18	-14	-8	0	26	0.34	-0.09	-0.28	-0.49	0.04	0.33	-0.19	0.54	1.12	0.58	-1.39	-0.70	-0.54	-0.31	-0.01	1.04
																	205	322	442	569	713	851	967	1113	1256	1358	1429	1572	1702	1835	1970	2121																			
																	1	-8	-14	-14	2	16	5	24	41	17	-38	-22	-18	-12	-2	22																			
14 GHz	1973	25.3	1.6	205	322	442	569	713	851	967	1113	1256	1358	1429	1572	1702	1835	1970	2121	1	-8	-14	-14	2	16	5	24	41	17	-38	-22	-18	-12	-2	22	0.04	-0.33	-0.57	-0.57	0.13	0.62	0.19	0.97	1.64	0.66	-1.51	-0.87	-0.71	-0.46	-0.10	0.87
																	211	327	448	571	709	840	952	1096	1239	1351	1428	1569	1701	1836	1977	2134																			
																	10	0	-5	-9	2	7	-8	10	26	12	-38	-23	-18	-9	5	36																			
16 GHz	1972	25.3	1.5	211	327	448	571	709	840	952	1096	1239	1351	1428	1569	1701	1836	1977	2134	10	0	-5	-9	2	7	-8	10	26	12	-38	-23	-18	-9	5	36	0.41	0.02	-0.20	-0.35	0.09	0.27	-0.30	0.39	1.04	0.48	-1.50	-0.89	-0.70	-0.37	0.20	1.43
																	203	318	436	557	691	825	939	1089	1237	1349	1428	1571	1701	1835	1976	2130																			
																	16	4	-6	-12	-5	1	-13	10	30	16	-34	-18	-15	-9	4	31																			
18 GHz	1971	25.5	1.3	203	318	436	557	691	825	939	1089	1237	1349	1428	1571	1701	1835	1976	2130	16	4	-6	-12	-5	1	-13	10	30	16	-34	-18	-15	-9	4	31	0.64	0.16	-0.22	-0.46	-0.21	0.04	-0.49	0.37	1.18	0.58	-1.33	-0.72	-0.60	-0.35	0.17	1.23
																	Avg. Slope: 25.3 mV/dB																0.6	0.6	0.7	0.7	0.8	0.9	1.1	1	0.9	0.4	0.6	0.9	0.9	0.9	1.1	0.7			
																	Flatness dB: ±1.1 dB																																		





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

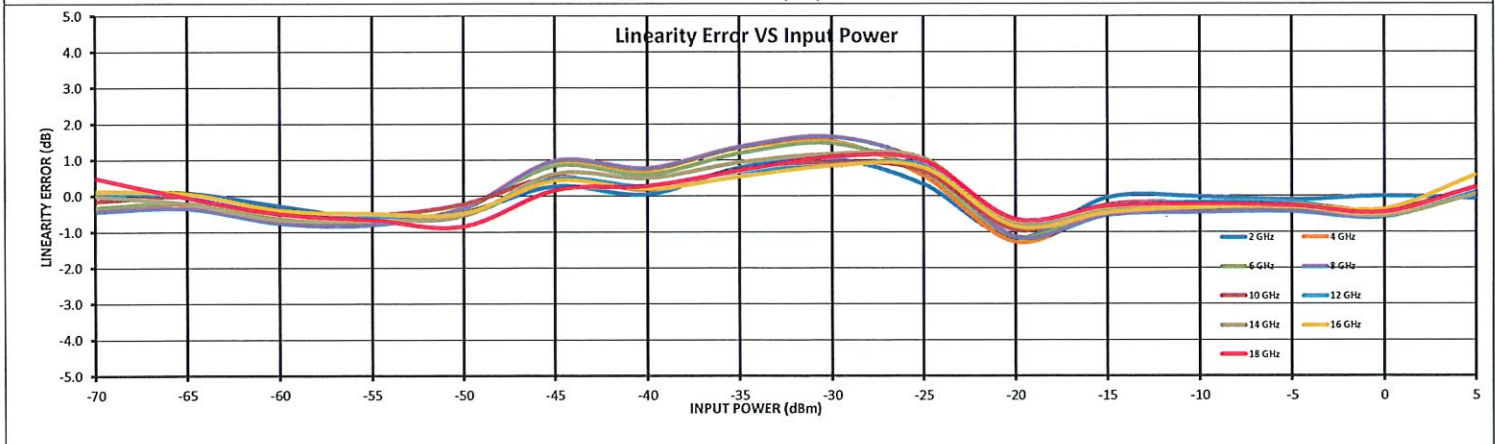
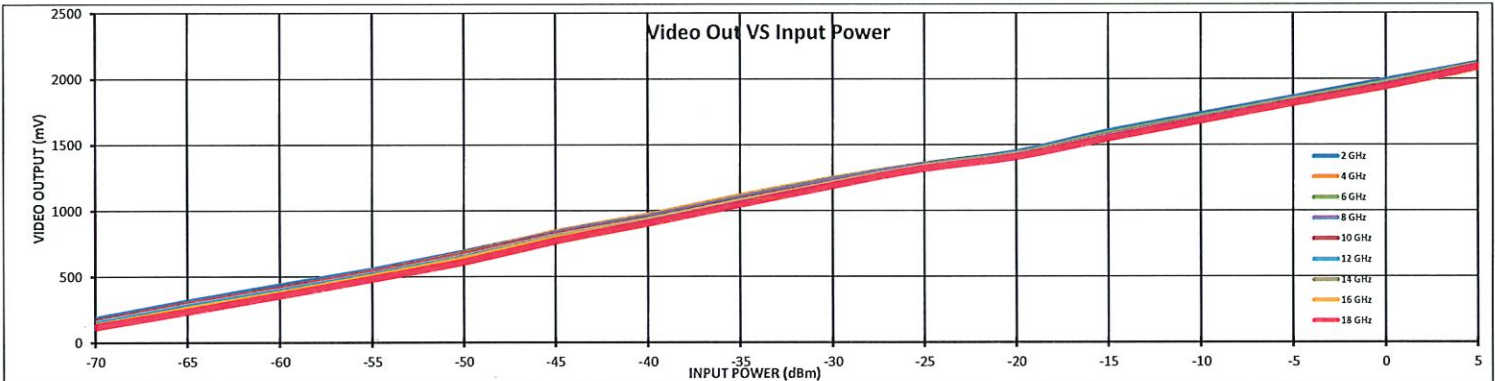
PL37922/2239

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37922/2239
 Date: 10/18/2022
 Tested By: RCombs
 Test Temp: +85°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)															
2 GHz	1992	25.9	1.2	184	313	433	554	687	835	959	1107	1243	1354	1445	1603	1733	1860	1992	2120
					3	2	-7	-16	-11	7	1	21	27	9	-30	-1	0	-3	0
				0.11	0.10	-0.27	-0.60	-0.44	0.28	0.05	0.79	1.04	0.33	-1.17	-0.04	-0.01	-0.10	0.01	-0.07
4 GHz	1981	25.9	1.5	163	294	413	538	679	840	965	1111	1245	1349	1431	1582	1713	1843	1972	2113
					-8	-6	-17	-20	-9	23	19	35	39	15	-33	-11	-10	-9	-10
				-0.32	-0.23	-0.66	-0.79	-0.35	0.89	0.72	1.34	1.53	0.66	-1.27	-0.42	-0.37	-0.35	-0.38	0.11
6 GHz	1981	25.9	1.5	169	292	410	536	677	837	960	1105	1242	1351	1434	1584	1713	1841	1970	2114
					-8	-5	-16	-20	-9	22	16	31	38	17	-29	-9	-9	-11	-11
				-0.32	-0.20	-0.63	-0.76	-0.33	0.85	0.61	1.19	1.47	0.67	-1.13	-0.34	-0.36	-0.41	-0.42	0.11
8 GHz	1968	25.8	1.7	150	281	400	528	669	832	955	1100	1236	1346	1422	1567	1698	1827	1952	2099
					-11	-9	-19	-21	-9	25	20	35	43	24	-29	-14	-12	-11	-15
				-0.43	-0.34	-0.75	-0.80	-0.33	0.98	0.78	1.37	1.65	0.92	-1.13	-0.53	-0.45	-0.43	-0.58	0.08
10 GHz	1961	25.7	0.9	161	292	411	536	672	820	939	1081	1215	1337	1423	1569	1699	1827	1950	2095
					-4	0	-10	-13	-6	14	4	19	24	18	-24	-6	-5	-5	-11
				-0.15	-0.02	-0.39	-0.52	-0.23	0.53	0.17	0.73	0.93	0.69	-0.95	-0.24	-0.19	-0.19	-0.42	0.23
12 GHz	1952	25.9	0.9	141	270	387	513	644	799	924	1064	1197	1327	1415	1557	1689	1819	1940	2087
					1	1	-12	-15	-14	12	7	18	22	22	-19	-7	-4	-4	-13
				0.05	0.02	-0.45	-0.58	-0.53	0.48	0.28	0.68	0.84	0.86	-0.74	-0.28	-0.16	-0.16	-0.50	0.20
14 GHz	1955	26.1	1.2	128	253	372	503	636	797	924	1066	1203	1330	1413	1554	1687	1817	1941	2087
					0	-5	-17	-17	-14	16	13	24	31	28	-20	-10	-7	-7	-15
				-0.01	-0.21	-0.65	-0.65	-0.55	0.62	0.50	0.94	1.17	1.06	-0.76	-0.38	-0.28	-0.29	-0.56	0.06
16 GHz	1955	26.1	0.8	135	263	381	509	640	794	918	1057	1195	1324	1412	1552	1686	1818	1945	2100
					4	2	-10	-13	-12	11	5	14	22	21	-22	-12	-8	-6	-10
				0.14	0.07	-0.40	-0.49	-0.48	0.43	0.19	0.54	0.84	0.80	-0.85	-0.46	-0.31	-0.25	-0.37	0.58
18 GHz	1955	26.4	1.1	117	235	355	483	610	769	905	1048	1191	1320	1409	1551	1685	1816	1943	2094
					13	-1	-13	-17	-23	4	7	19	29	26	-17	-7	-6	-7	-12
				0.49	-0.05	-0.50	-0.66	-0.85	0.16	0.27	0.70	1.09	0.98	-0.64	-0.28	-0.22	-0.27	-0.46	0.24
Avg. Slope: 26 mV/dB				1.3	1.5	1.5	1.4	1.5	1.4	1.2	1.2	1	0.7	0.7	1	0.9	0.9	1	0.6
				Flatness dB: ±1.5 dB															





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

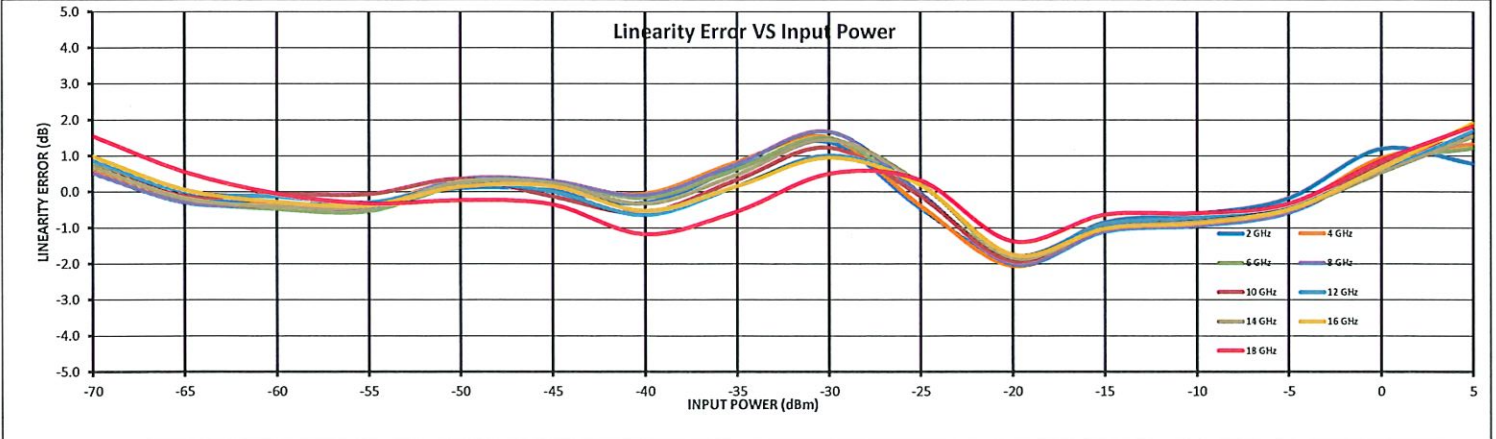
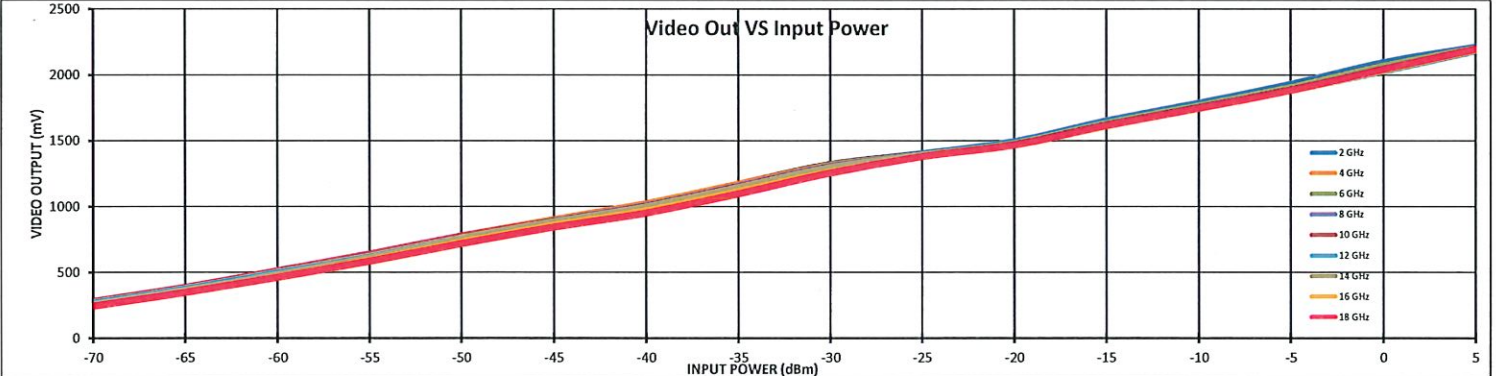
PL37922/2239

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL37922/2239
Date: 10/18/2022
Tested By: RCombs
Test Temp: -40°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
2 GHz	2071	26.0	1.9	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	272	21	0.80	
	2071	26.0	1.9	272	377	503	632	774	902	1023	1178	1327	1409	1502	1659	1795	1937	2102	2222	21	0.80	0.80	
	2071	26.0	1.9	272	377	503	632	774	902	1023	1178	1327	1409	1502	1659	1795	1937	2102	2222	21	0.80	0.80	
4 GHz	2050	25.5	2.1	278	383	509	637	782	907	1028	1178	1323	1402	1487	1641	1773	1912	2074	2212	15	0.59	0.59	
	2050	25.5	2.1	278	383	509	637	782	907	1028	1178	1323	1402	1487	1641	1773	1912	2074	2212	15	0.59	0.59	
	2050	25.5	2.1	278	383	509	637	782	907	1028	1178	1323	1402	1487	1641	1773	1912	2074	2212	15	0.59	0.59	
6 GHz	2050	25.8	1.8	266	369	491	618	766	897	1015	1164	1315	1402	1488	1640	1772	1908	2071	2210	21	0.81	0.81	
	2050	25.8	1.8	266	369	491	618	766	897	1015	1164	1315	1402	1488	1640	1772	1908	2071	2210	21	0.81	0.81	
	2050	25.8	1.8	266	369	491	618	766	897	1015	1164	1315	1402	1488	1640	1772	1908	2071	2210	21	0.81	0.81	
8 GHz	2033	25.4	2.0	271	377	501	627	774	899	1016	1165	1315	1398	1475	1625	1756	1892	2050	2199	13	0.53	0.53	
	2033	25.4	2.0	271	377	501	627	774	899	1016	1165	1315	1398	1475	1625	1756	1892	2050	2199	13	0.53	0.53	
	2033	25.4	2.0	271	377	501	627	774	899	1016	1165	1315	1398	1475	1625	1756	1892	2050	2199	13	0.53	0.53	
10 GHz	2028	25.1	1.9	288	393	520	646	782	895	1010	1158	1306	1397	1478	1629	1759	1894	2047	2194	18	0.70	0.70	
	2028	25.1	1.9	288	393	520	646	782	895	1010	1158	1306	1397	1478	1629	1759	1894	2047	2194	18	0.70	0.70	
	2028	25.1	1.9	288	393	520	646	782	895	1010	1158	1306	1397	1478	1629	1759	1894	2047	2194	18	0.70	0.70	
12 GHz	2018	25.3	1.7	270	375	498	620	759	880	991	1137	1285	1390	1468	1616	1747	1882	2032	2187	22	0.87	0.87	
	2018	25.3	1.7	270	375	498	620	759	880	991	1137	1285	1390	1468	1616	1747	1882	2032	2187	22	0.87	0.87	
	2018	25.3	1.7	270	375	498	620	759	880	991	1137	1285	1390	1468	1616	1747	1882	2032	2187	22	0.87	0.87	
14 GHz	2022	25.4	1.8	260	365	486	613	757	884	996	1144	1296	1392	1467	1615	1746	1882	2036	2188	18	0.70	0.70	
	2022	25.4	1.8	260	365	486	613	757	884	996	1144	1296	1392	1467	1615	1746	1882	2036	2188	18	0.70	0.70	
	2022	25.4	1.8	260	365	486	613	757	884	996	1144	1296	1392	1467	1615	1746	1882	2036	2188	18	0.70	0.70	
16 GHz	2019	25.6	1.9	253	358	477	603	744	872	982	1128	1276	1384	1463	1609	1741	1879	2036	2196	25	0.99	0.99	
	2019	25.6	1.9	253	358	477	603	744	872	982	1128	1276	1384	1463	1609	1741	1879	2036	2196	25	0.99	0.99	
	2019	25.6	1.9	253	358	477	603	744	872	982	1128	1276	1384	1463	1609	1741	1879	2036	2196	25	0.99	0.99	
18 GHz	2022	26.0	1.822	243	347	461	584	716	843	952	1098	1255	1381	1467	1616	1747	1884	2045	2200	41	1.56	1.56	
	2022	26.0	1.822	243	347	461	584	716	843	952	1098	1255	1381	1467	1616	1747	1884	2045	2200	41	1.56	1.56	
	2022	26.0	1.822	243	347	461	584	716	843	952	1098	1255	1381	1467	1616	1747	1884	2045	2200	41	1.56	1.56	
Avg. Slope: 25.6 mV/dB				0.9	0.9	1.2	1.2	1.3	1.2	1.5	1.6	1.4	0.6	0.8	1	1.1	1.1	1.4	0.7	Flatness dB: ±1.6 dB			

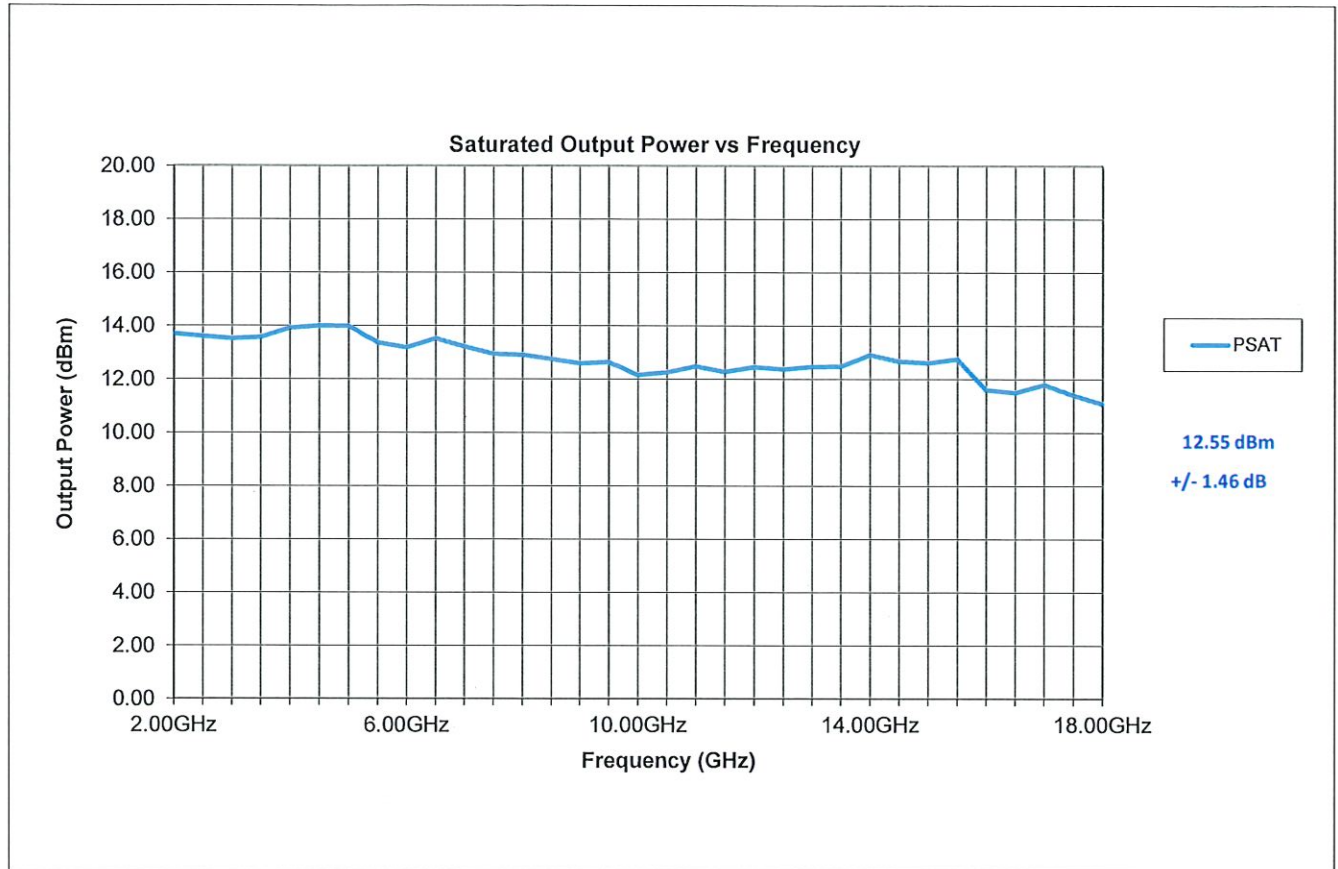




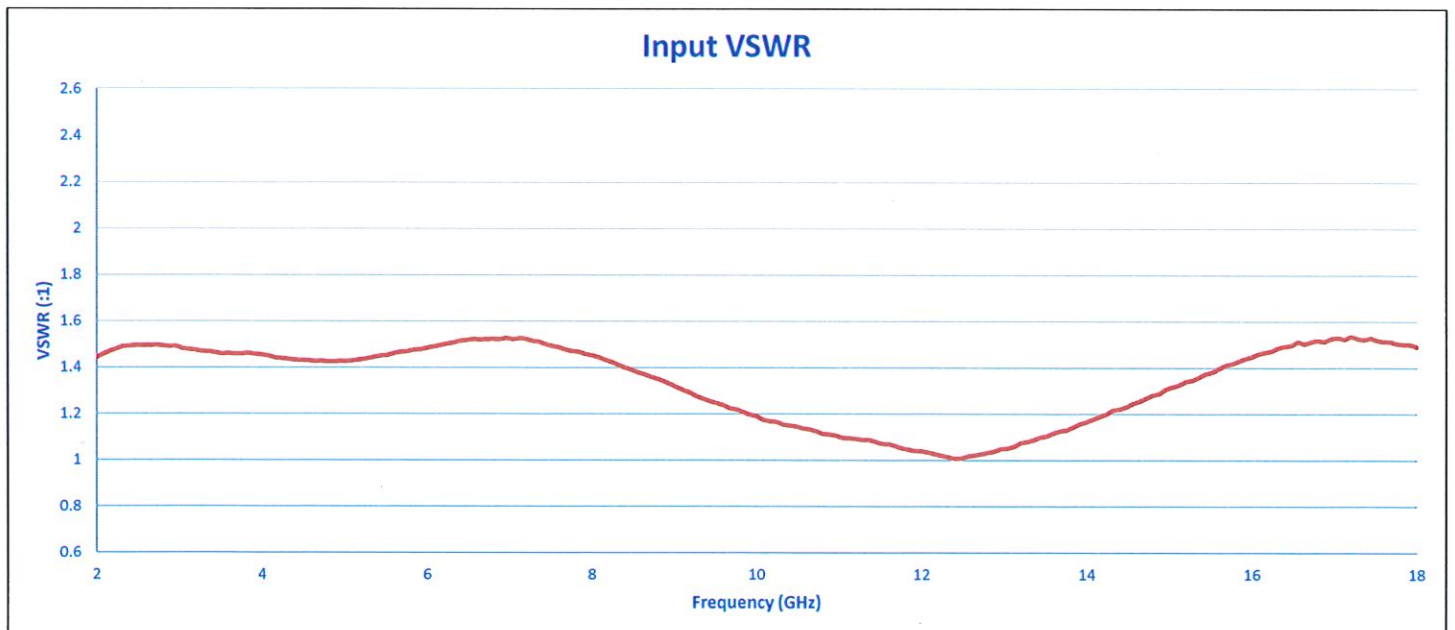
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37922/2239

PSAT



INPUT VSWR

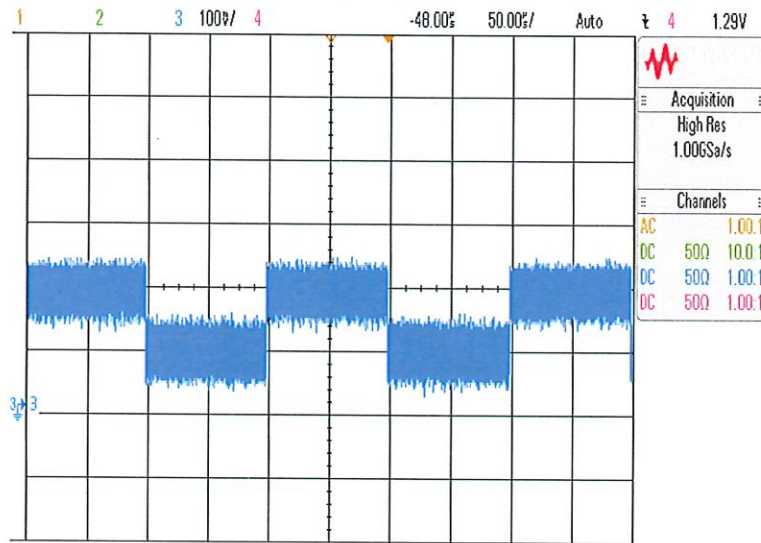




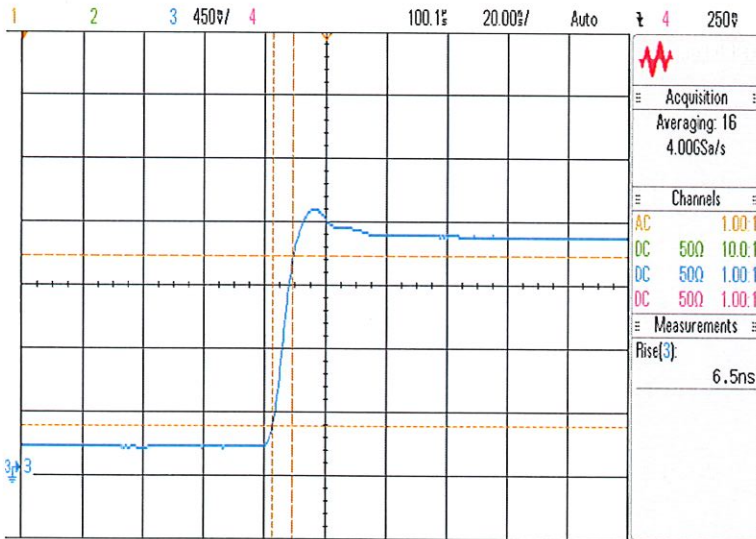
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37922/2239

TSS



Rise Time



Fall Time

