



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

PL42573/2342

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/30/2023
 Serial No: PL42573/2342 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	±1.3 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	12.73 dBm Avg.		
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.5 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)	±1.7 dB See Plots		
10	Pulse Range:	30 ns to CW	Pass		
11	Rise Time:	10 ns (6 ns Typical)	7.0 ns		
12	Recovery Time:	60 ns Typical	55.3 ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 266 mA -12V @ 98 mA		PMI QA2

QA/QC Approval: *[Signature]* *[Signature]* PMI QA2 Date: 10/31/2023



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

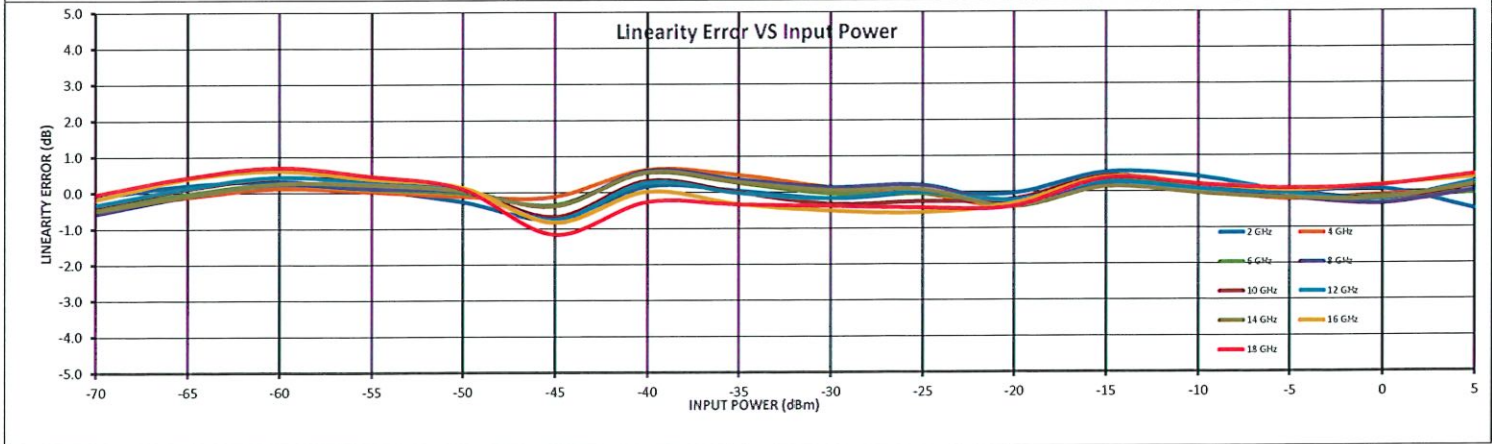
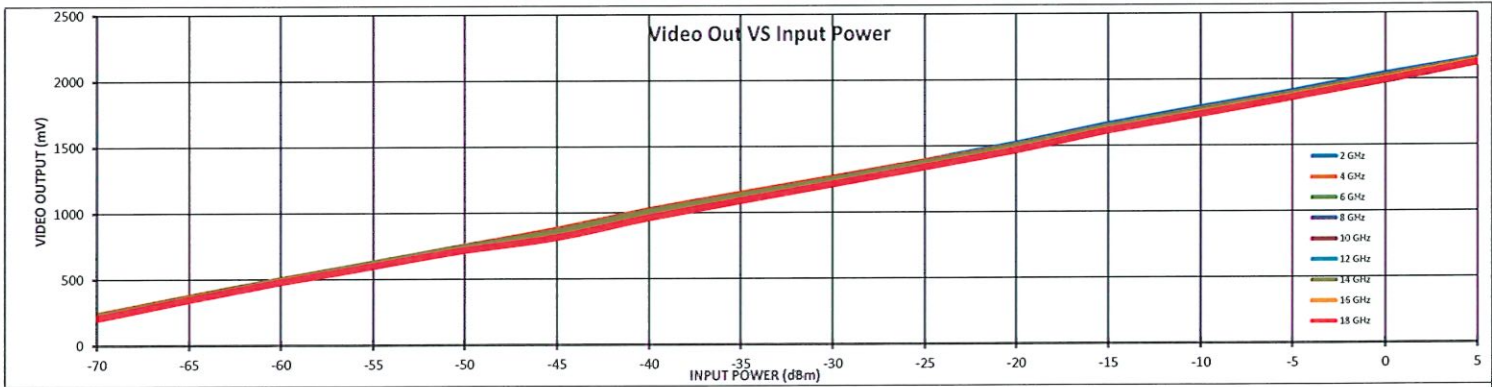
PL42573/2342



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL42573/2342
 Date: 10/30/2023
 Tested By: RCombs
 Test Temp: +25°C

Log Transfer Over Frequency +25°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	2036	25.9	0.7	221	358	491	614	735	851	1005	1131	1255	1388	1517	1662	1788	1907	2038	2153	Measured Value (mV)
				-3	5	8	2	-7	-19	4	1	-5	-1	-1	14	11	0	2	-13	ERROR (mV)
				-0.11	0.21	0.32	0.09	-0.26	-0.75	0.17	0.04	-0.18	-0.02	-0.04	0.54	0.41	0.00	0.06	-0.50	LINEARITY ERROR (dB)
4 GHz	2022	25.4	0.6	235	370	503	627	751	877	1023	1146	1264	1387	1504	1645	1768	1889	2019	2147	Measured Value (mV)
				-11	-3	3	1	-3	-3	16	12	3	-1	-11	4	0	-5	-3	-1	ERROR (mV)
				-0.43	-0.12	0.12	0.03	-0.11	-0.11	0.63	0.49	0.14	-0.04	-0.42	0.16	0.01	-0.22	-0.10	-0.05	LINEARITY ERROR (dB)
6 GHz	2016	25.5	0.5	219	358	492	615	740	859	1009	1130	1250	1377	1500	1641	1763	1884	2012	2142	Measured Value (mV)
				-11	0	6	2	0	-9	14	7	-1	-1	-6	8	2	-4	-4	-2	ERROR (mV)
				-0.44	-0.02	0.24	0.09	-0.02	-0.34	0.54	0.27	-0.04	-0.05	-0.24	0.30	0.08	-0.17	-0.14	-0.06	LINEARITY ERROR (dB)
8 GHz	1999	25.3	0.6	215	354	488	612	736	852	1003	1123	1244	1372	1486	1625	1746	1868	1991	2126	Measured Value (mV)
				-15	-2	6	3	1	-10	15	9	4	5	-7	5	-1	-5	-9	0	ERROR (mV)
				-0.58	-0.09	0.23	0.12	0.05	-0.38	0.60	0.35	0.14	0.19	-0.29	0.20	-0.02	-0.18	-0.34	0.02	LINEARITY ERROR (dB)
10 GHz	1997	25.4	0.7	212	351	486	610	732	839	991	1109	1228	1357	1485	1628	1749	1870	1992	2128	Measured Value (mV)
				-9	3	11	8	3	-17	8	0	-8	-8	-5	11	5	0	-6	4	ERROR (mV)
				-0.37	0.12	0.42	0.32	0.11	-0.68	0.32	0.00	-0.33	-0.25	-0.20	0.43	0.20	-0.02	-0.22	0.15	LINEARITY ERROR (dB)
12 GHz	1994	25.3	0.8	211	350	484	607	729	834	987	1106	1229	1360	1481	1620	1742	1866	1988	2127	Measured Value (mV)
				-9	3	11	7	2	-19	7	-1	-4	0	-5	7	2	-1	-6	6	ERROR (mV)
				-0.34	0.13	0.44	0.27	0.08	-0.75	0.27	-0.02	-0.17	-0.01	-0.22	0.27	0.07	-0.05	-0.22	0.25	LINEARITY ERROR (dB)
14 GHz	2003	25.3	0.6	222	359	494	619	741	857	1007	1126	1246	1373	1488	1628	1749	1872	1998	2134	Measured Value (mV)
				-12	-2	6	6	1	-10	14	7	1	2	-10	3	-1	-5	-5	4	ERROR (mV)
				-0.49	-0.09	0.25	0.23	0.06	-0.38	0.56	0.28	0.05	0.06	-0.41	0.14	-0.04	-0.19	-0.19	0.17	LINEARITY ERROR (dB)
16 GHz	2002	25.7	0.8	195	338	473	595	718	822	972	1092	1216	1343	1478	1626	1750	1874	2006	2140	Measured Value (mV)
				-5	10	16	10	4	-21	1	-8	-13	-15	-8	10	5	1	5	10	ERROR (mV)
				-0.18	0.39	0.62	0.37	0.15	-0.84	0.03	-0.33	-0.52	-0.57	-0.32	0.39	0.21	0.03	0.18	0.33	LINEARITY ERROR (dB)
18 GHz	1987	25.4	1.2	206	345	479	600	718	813	963	1089	1215	1340	1469	1615	1738	1862	1992	2126	Measured Value (mV)
				-1	11	18	12	3	-30	7	-9	-10	-11	-10	5	2	4	12	ERROR (mV)	
				-0.04	0.43	0.71	0.46	0.11	-1.17	-0.26	-0.33	-0.38	-0.43	-0.40	0.38	0.21	0.08	0.16	0.46	LINEARITY ERROR (dB)
Avg. Slope: 25.5 mV/dB				0.8	0.6	0.6	0.6	0.6	1.3	1.2	1.1	1	0.9	1	0.9	1	0.9	1	0.5	Flatness dB: ±1.3 dB





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

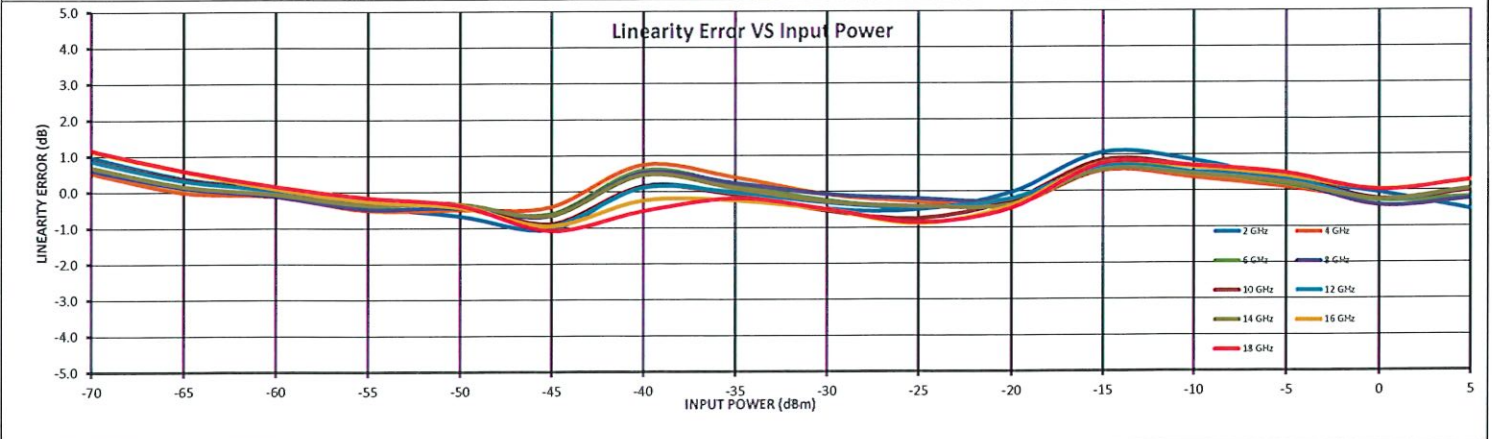
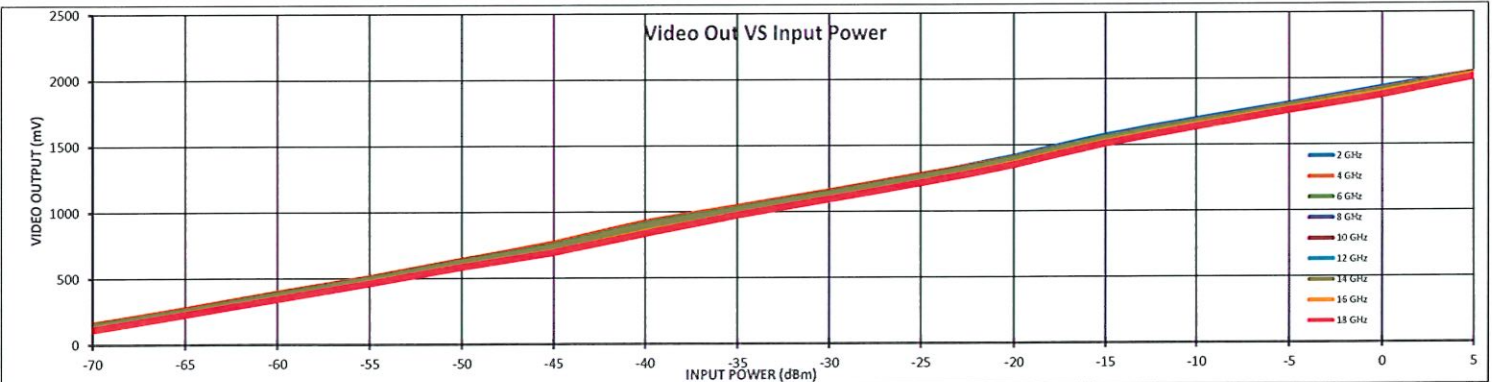
PL42573/2342

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL42573/2342
 Date: 10/30/2023
 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	1929	25.8	1.1	148	262	383	500	621	741	901	1024	1142	1271	1412	1569	1692	1807	1927	2044	Measured Value (mV)	
				25	10	2	-10	-17	-27	4	-2	-12	-13	-1	27	22	8	-2	-14	Error (mV)	
				0.97	0.38	0.08	-0.39	-0.67	-1.04	0.15	-0.06	-0.48	-0.51	-0.04	1.06	0.84	0.30	-0.06	-0.53	LINEARITY ERROR (dB)	
4 GHz	1919	25.4	0.7	156	270	394	511	638	767	923	1041	1156	1278	1402	1553	1675	1795	1913	2042	Measured Value (mV)	
				14	0	-3	-13	-12	-11	19	10	-2	-7	-10	14	9	2	-6	-5	Error (mV)	
				0.54	0.00	-0.11	-0.50	-0.49	-0.41	0.74	0.40	-0.08	-0.29	-0.40	0.57	0.37	0.10	-0.24	-0.19	LINEARITY ERROR (dB)	
6 GHz	1913	25.5	0.7	143	257	380	497	625	749	907	1025	1141	1264	1396	1549	1671	1790	1905	2036	Measured Value (mV)	
				17	3	-2	-12	-11	-15	15	5	-6	-11	-6	19	13	4	-7	-5	Error (mV)	
				0.66	0.12	-0.07	-0.46	-0.44	-0.61	0.59	0.19	-0.25	-0.44	-0.24	0.74	0.50	0.18	-0.28	-0.19	LINEARITY ERROR (dB)	
8 GHz	1894	25.4	0.7	132	247	368	485	613	735	892	1011	1130	1254	1381	1529	1653	1773	1884	2015	Measured Value (mV)	
				16	3	-3	-12	-11	-17	13	6	-2	-5	-6	16	12	6	-11	-6	Error (mV)	
				0.61	0.13	-0.11	-0.48	-0.44	-0.66	0.52	0.24	-0.08	-0.20	-0.22	0.63	0.49	0.24	-0.42	-0.24	LINEARITY ERROR (dB)	
10 GHz	1890	25.5	0.9	127	241	361	480	606	720	873	995	1111	1233	1373	1529	1652	1773	1884	2017	Measured Value (mV)	
				22	9	1	-7	-9	-23	4	-2	-14	-19	-7	22	18	11	-6	0	Error (mV)	
				0.88	0.35	0.05	-0.27	-0.34	-0.89	0.14	-0.09	-0.53	-0.76	-0.26	0.85	0.69	0.41	-0.24	-0.01	LINEARITY ERROR (dB)	
12 GHz	1889	25.5	0.9	129	243	363	481	607	720	874	998	1118	1241	1375	1524	1648	1770	1882	2017	Measured Value (mV)	
				22	8	1	-8	-10	-24	3	-1	-8	-11	-5	17	13	9	-7	1	Error (mV)	
				0.86	0.32	0.05	-0.33	-0.38	-0.94	0.11	-0.02	-0.30	-0.45	-0.21	0.65	0.52	0.34	-0.26	0.04	LINEARITY ERROR (dB)	
14 GHz	1899	25.5	0.7	131	245	367	487	615	734	890	1009	1126	1251	1379	1531	1656	1777	1893	2028	Measured Value (mV)	
				18	4	-1	-9	-8	-17	12	2	-7	-11	-9	15	12	6	-5	1	Error (mV)	
				0.70	0.16	-0.06	-0.35	-0.33	-0.66	0.46	0.09	-0.29	-0.41	-0.37	0.59	0.46	0.22	-0.25	0.04	LINEARITY ERROR (dB)	
16 GHz	1884	25.9	1.1	112	226	343	464	589	705	852	982	1104	1224	1365	1526	1652	1775	1895	2030	Measured Value (mV)	
				30	15	2	-7	-11	-25	-6	-6	-13	-23	-11	20	17	10	1	7	Error (mV)	
				1.14	0.58	0.09	-0.25	-0.42	-0.95	-0.25	-0.24	-0.51	-0.89	-0.42	0.77	0.65	0.40	0.03	0.26	LINEARITY ERROR (dB)	
18 GHz	1875	25.6	1.2	113	226	343	463	586	695	837	974	1095	1213	1351	1510	1637	1759	1875	2010	Measured Value (mV)	
				30	15	4	-4	-9	-28	-14	-5	-12	-22	-12	19	18	12	0	7	Error (mV)	
				1.17	0.50	0.16	-0.16	-0.37	-1.08	-0.54	-0.19	-0.49	-0.86	-0.45	0.76	0.70	0.48	0.02	0.28	LINEARITY ERROR (dB)	
Avg. Slope: 25.6 mV/dB				0.9	0.8	1	0.9	1	1.4	1.7	1.3	1.2	1.3	1.2	1.1	1.1	0.9	1	0.7	Flatness dB: ±1.7 dB	





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

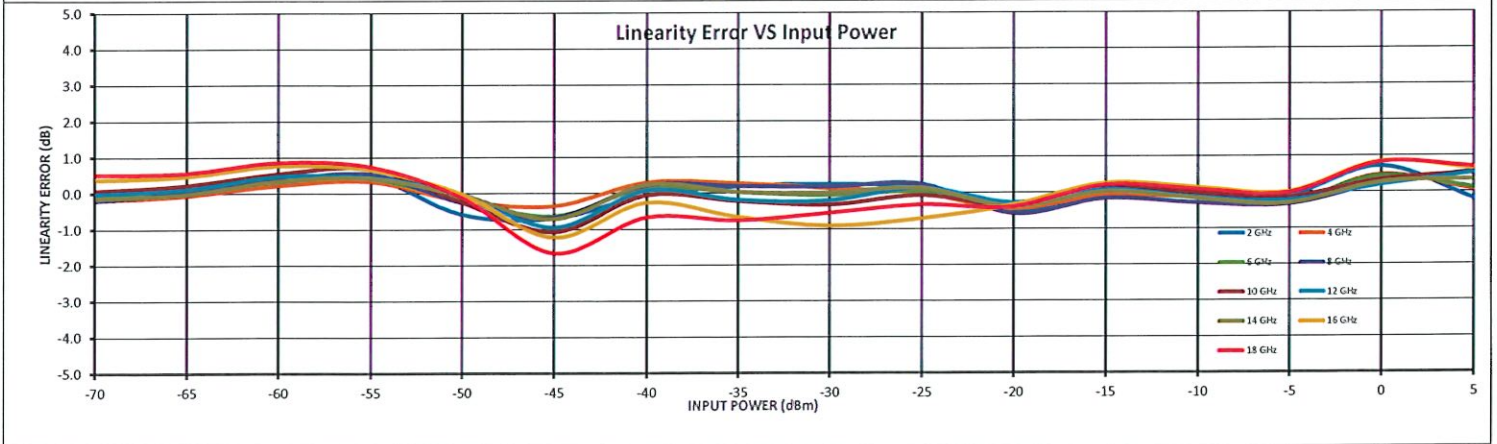
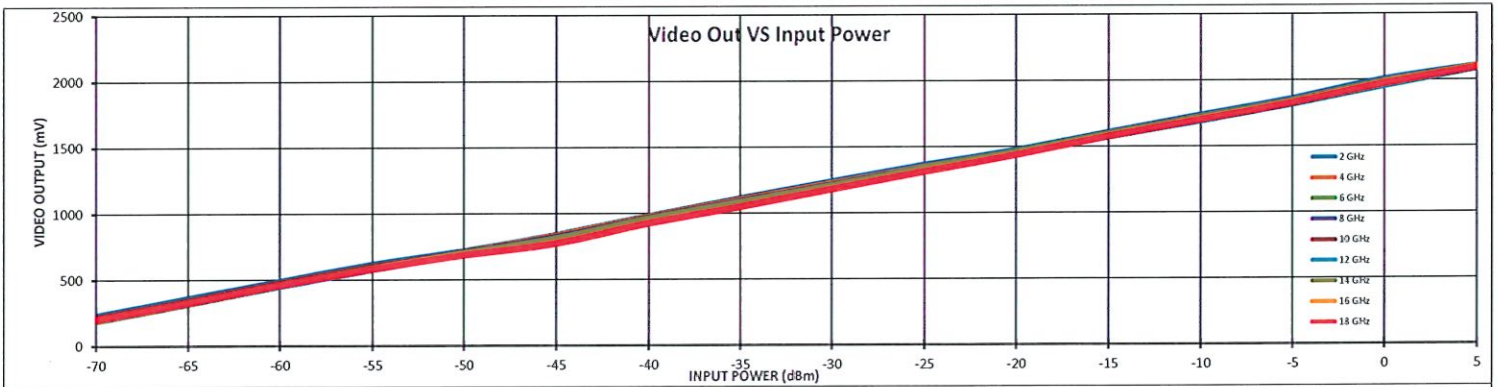
PL42573/2342



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42573/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: -40°C

Log Transfer Over Frequency -40°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	1989	25.1	0.7	232	363	491	620	719	842	983	1115	1242	1364	1474	1610	1737	1861	2006	2109	Measured Value (mV)
				0	5	8	11	-15	-17	-1	5	6	3	-12	-2	-1	-2	18	-5	Error (mV)
				-0.01	0.21	0.32	0.45	-0.59	-0.70	-0.06	0.18	0.24	0.13	-0.50	-0.10	-0.02	-0.09	0.71	-0.19	LINEARITY ERROR (dB)
4 GHz	1978	25.2	0.5	211	340	473	602	714	835	978	1104	1226	1348	1463	1598	1722	1845	1989	2105	Measured Value (mV)
				-5	-1	6	8	-5	-9	7	7	3	0	-11	-2	-4	-7	12	2	Error (mV)
				-0.19	-0.05	0.22	0.33	-0.20	-0.35	0.30	0.27	0.13	-0.02	-0.45	-0.07	-0.15	-0.28	0.46	0.06	LINEARITY ERROR (dB)
6 GHz	1973	25.2	0.6	206	336	469	597	708	823	969	1091	1215	1344	1461	1596	1719	1840	1984	2102	Measured Value (mV)
				-2	1	9	10	-4	-16	4	1	-2	1	-8	1	-2	-7	11	3	Error (mV)
				-0.09	0.04	0.34	0.41	-0.18	-0.64	0.16	0.02	-0.07	0.04	-0.30	0.05	-0.08	-0.26	0.44	0.11	LINEARITY ERROR (dB)
8 GHz	1951	24.6	0.7	221	350	482	609	713	826	971	1093	1216	1341	1444	1577	1697	1820	1957	2088	Measured Value (mV)
				-5	0	9	13	-6	-17	5	5	4	6	-14	-4	-7	-8	6	14	Error (mV)
				-0.20	0.02	0.36	0.54	-0.26	-0.67	0.22	0.19	0.17	0.24	-0.58	-0.17	-0.30	-0.33	0.23	0.56	LINEARITY ERROR (dB)
10 GHz	1953	24.8	1.1	217	345	477	604	706	809	958	1078	1200	1330	1447	1593	1704	1825	1961	2089	Measured Value (mV)
				2	6	14	17	-6	-27	-1	-5	-8	-2	-9	3	-1	-3	8	13	Error (mV)
				0.07	0.22	0.55	0.69	-0.23	-1.07	-0.05	-0.22	-0.33	-0.07	-0.36	0.12	-0.03	-0.14	0.34	0.51	LINEARITY ERROR (dB)
12 GHz	1950	25.1	0.9	191	320	454	579	693	795	947	1065	1191	1325	1440	1575	1695	1818	1954	2088	Measured Value (mV)
				0	3	12	11	0	-24	2	-5	-5	3	-7	2	-4	-6	5	13	Error (mV)
				-0.02	0.11	0.47	0.45	-0.01	-0.95	0.08	-0.19	-0.21	0.14	-0.28	0.08	-0.15	-0.23	0.19	0.52	LINEARITY ERROR (dB)
14 GHz	1950	25.2	0.7	193	322	457	585	699	808	958	1079	1204	1333	1446	1582	1703	1826	1966	2094	Measured Value (mV)
				-3	0	9	11	-1	-18	6	1	0	3	-10	1	-4	-8	7	9	Error (mV)
				-0.14	-0.02	0.34	0.42	-0.04	-0.72	0.24	0.03	0.00	0.13	-0.39	0.02	-0.17	-0.31	0.27	0.34	LINEARITY ERROR (dB)
16 GHz	1959	25.4	1.2	192	321	456	580	690	786	937	1054	1174	1306	1443	1595	1708	1832	1980	2102	Measured Value (mV)
				10	12	20	17	0	-31	-7	-17	-23	-18	-9	6	3	0	21	16	Error (mV)
				0.38	0.47	0.77	0.66	-0.01	-1.23	-0.26	-0.67	-0.92	-0.72	-0.34	0.25	0.13	0.01	0.83	0.64	LINEARITY ERROR (dB)
18 GHz	1951	25.2	1.659	199	326	460	583	688	774	925	1049	1180	1312	1437	1578	1701	1825	1972	2095	Measured Value (mV)
				13	14	22	19	-3	-42	-17	-19	-14	-8	-10	5	2	0	21	17	Error (mV)
				0.52	0.56	0.86	0.74	-0.10	-1.66	-0.67	-0.76	-0.56	-0.33	-0.39	0.21	0.08	-0.01	0.82	0.69	LINEARITY ERROR (dB)
Avg. Slope: 25.1 mV/dB				0.8	0.9	0.7	0.8	0.6	1.3	1.2	1.3	1.3	1.2	0.7	0.7	0.8	0.9	1	0.4	Flatness dB: ±1.3 dB

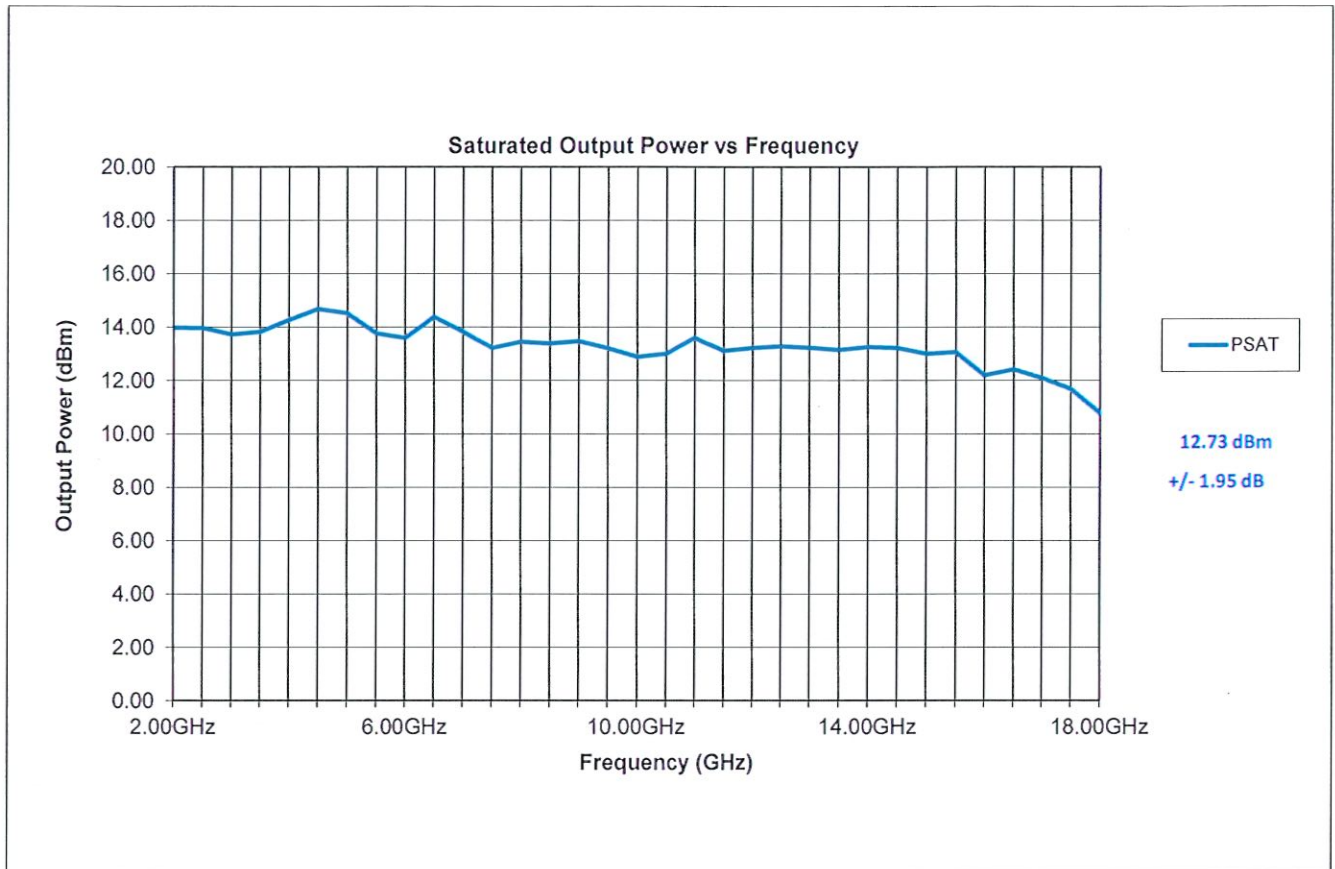




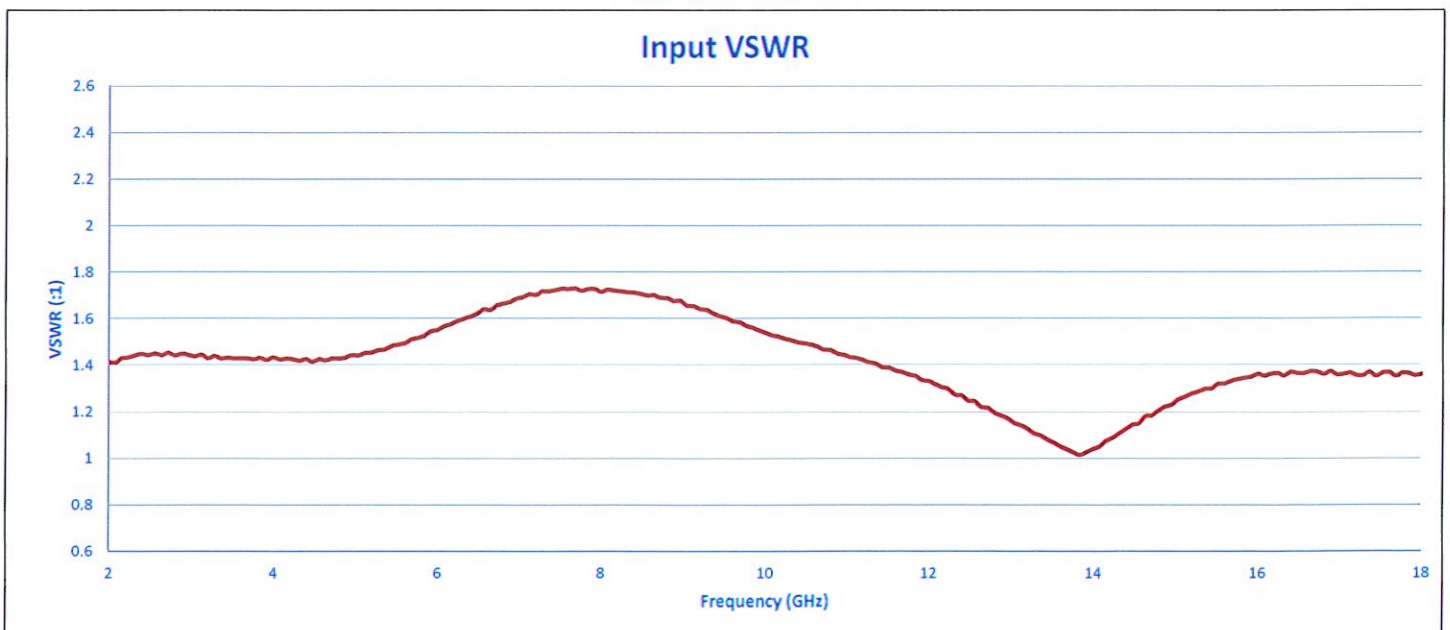
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42573/2342

PSAT



INPUT VSWR

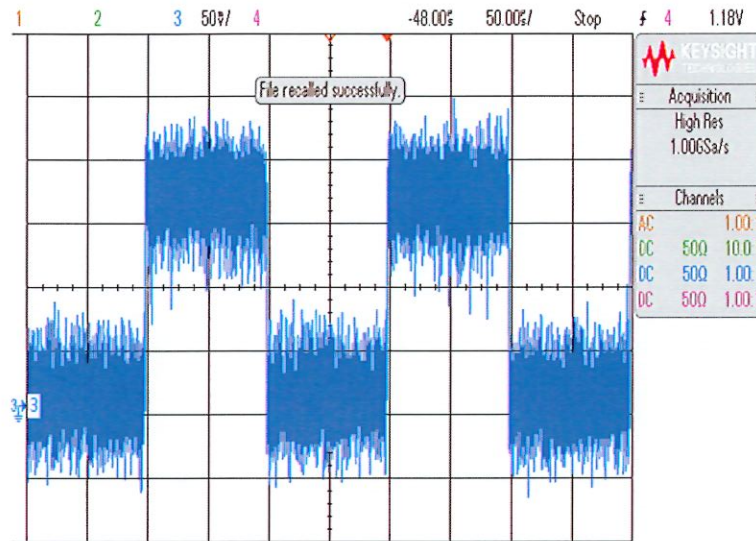




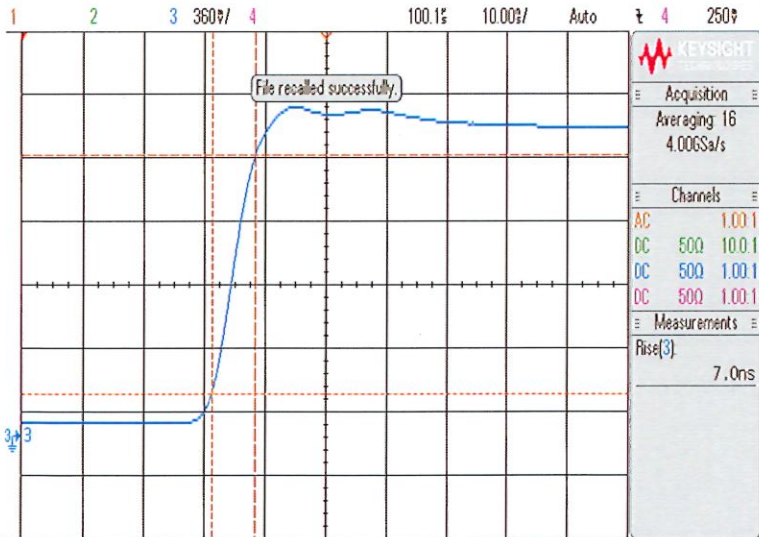
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42573/2342

TSS



Rise Time



Fall Time

