



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

PL42571/2342

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/30/2023
Serial No: PL42571/2342 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	±1.1 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	13.16 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)	±1.3 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.1 ns	
12	Recovery Time:	60 ns Typical	59.5 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 255 mA -12V @ 99 mA	PMI QA2

QA/QC Approval: PMI QA2 Date: 10/31/2023



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

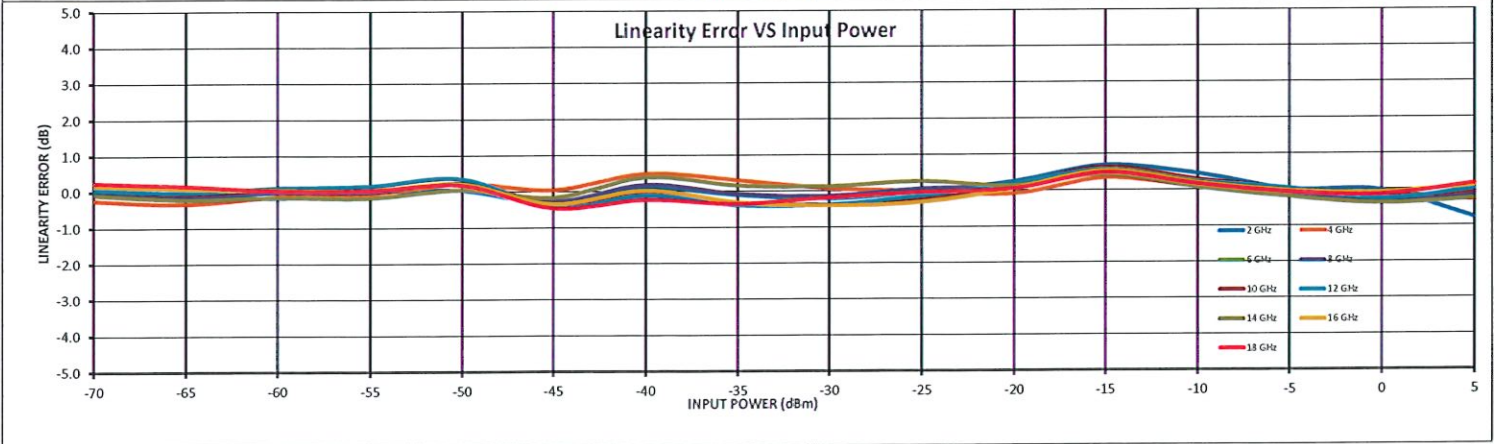
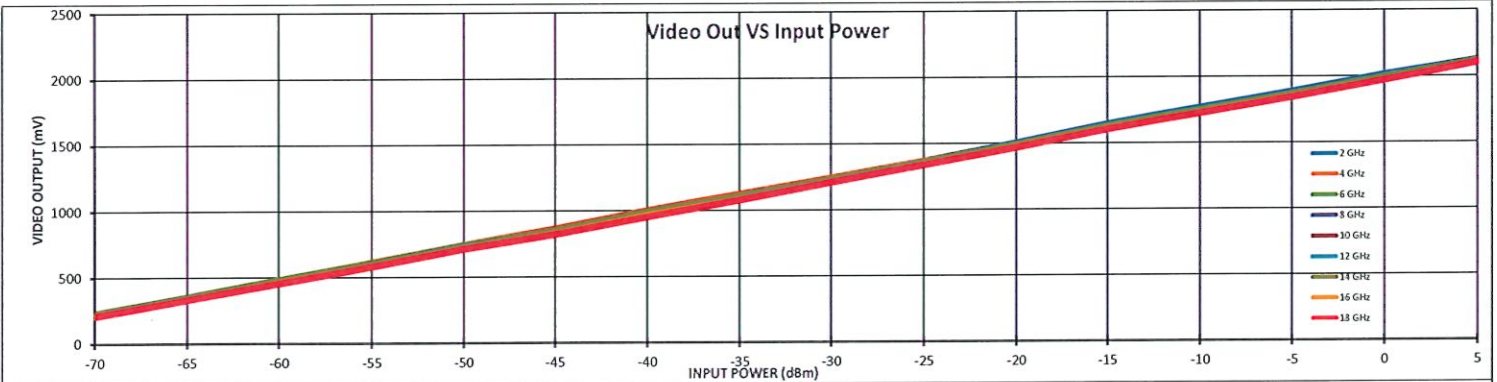
PL42571/2342



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42571/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: +25°C

Log Transfer Over Frequency +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	INTERCEPT (mV)	2019	215	338	465	598	729	849	989	1113	1239	1373	1509	1650	1773	1891	2019	2128	Measured Value (mV)
	SLOPE (mV/dB)	25.8	4	-2	-4	0	1	-8	3	-3	-5	-1	6	18	12	0	-1	-20	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.15	-0.08	-0.17	-0.01	0.04	-0.31	0.10	-0.10	-0.21	-0.02	0.25	0.69	0.46	0.02	-0.02	-0.78	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2003	233	357	488	616	749	870	1008	1129	1249	1373	1497	1634	1753	1873	1998	2122	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-6	-8	-3	-1	5	1	12	8	2	0	-2	8	2	-4	-5	-7	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.24	-0.34	-0.13	-0.05	0.22	0.04	0.49	0.30	0.07	-0.02	-0.09	0.33	0.08	-0.17	-0.20	-0.29	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1999	235	358	488	614	745	859	996	1115	1239	1368	1498	1634	1752	1871	1996	2119	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-1	-4	1	1	5	-7	5	-2	-4	-1	2	12	5	-3	-3	-5	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.04	-0.15	0.03	0.03	0.22	-0.26	0.18	-0.08	-0.17	-0.03	0.09	0.49	0.19	-0.10	-0.14	-0.25	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1986	227	350	479	605	736	849	986	1105	1229	1360	1487	1622	1739	1858	1979	2108	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-1	-3	0	0	6	-7	5	-2	-3	1	3	12	4	-3	-7	-4	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.05	-0.13	-0.01	0.00	0.23	-0.27	0.18	-0.09	-0.14	0.05	0.13	0.49	0.14	-0.12	-0.29	-0.15	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1983	228	350	479	606	737	843	978	1096	1220	1349	1484	1622	1739	1858	1977	2106	Measured Value (mV)
	SLOPE (mV/dB)	25.1	2	-1	2	4	9	-10	-1	-8	-10	-6	4	16	7	1	-5	-2	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.08	-0.04	0.08	0.16	0.35	-0.41	-0.05	-0.33	-0.38	-0.25	0.14	0.63	0.28	0.03	-0.21	-0.09	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1975	224	348	476	603	733	837	971	1089	1215	1346	1479	1614	1731	1851	1969	2101	Measured Value (mV)
	SLOPE (mV/dB)	25.0	2	0	3	4	9	-11	-3	-10	-9	-4	5	14	6	1	-7	0	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.07	-0.02	0.12	0.17	0.36	-0.45	-0.11	-0.39	-0.37	-0.14	0.19	0.56	0.23	0.04	-0.27	0.01	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1985	224	346	474	599	730	850	990	1110	1235	1364	1486	1619	1736	1855	1975	2104	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-2	-5	-4	-4	1	-4	10	4	3	7	3	11	2	-5	-10	-7	ERROR (mV)
	LIN. ERR. (dB)	0.4	-0.07	-0.21	-0.15	-0.16	0.05	-0.17	0.39	0.16	0.13	0.26	0.12	0.44	0.06	-0.20	-0.39	-0.26	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1983	217	341	467	593	724	836	972	1090	1214	1342	1478	1617	1735	1855	1980	2112	Measured Value (mV)
	SLOPE (mV/dB)	25.3	5	2	1	1	5	-9	1	-8	-10	-8	1	14	5	-1	-2	2	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.19	0.09	0.06	0.04	0.21	-0.34	0.03	-0.31	-0.40	-0.32	0.06	0.54	0.20	-0.04	-0.09	0.10	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1972	207	332	455	581	711	822	954	1077	1208	1338	1467	1605	1723	1844	1968	2103	Measured Value (mV)
	SLOPE (mV/dB)	25.3	6	4	1	1	4	-12	-6	-9	-5	-1	1	12	4	-2	-4	4	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.25	0.17	0.03	0.03	0.17	-0.47	-0.24	-0.36	-0.18	-0.04	0.05	0.49	0.15	-0.07	-0.14	0.16	LINEARITY ERROR (dB)
Avg. Slope: 25.2 mV/dB			0.5	0.5	0.7	0.7	0.7	1	1.1	1	0.8	0.7	0.8	0.9	1	0.9	1	0.6	Flatness dB: ±1.1 dB





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

PL42571/2342



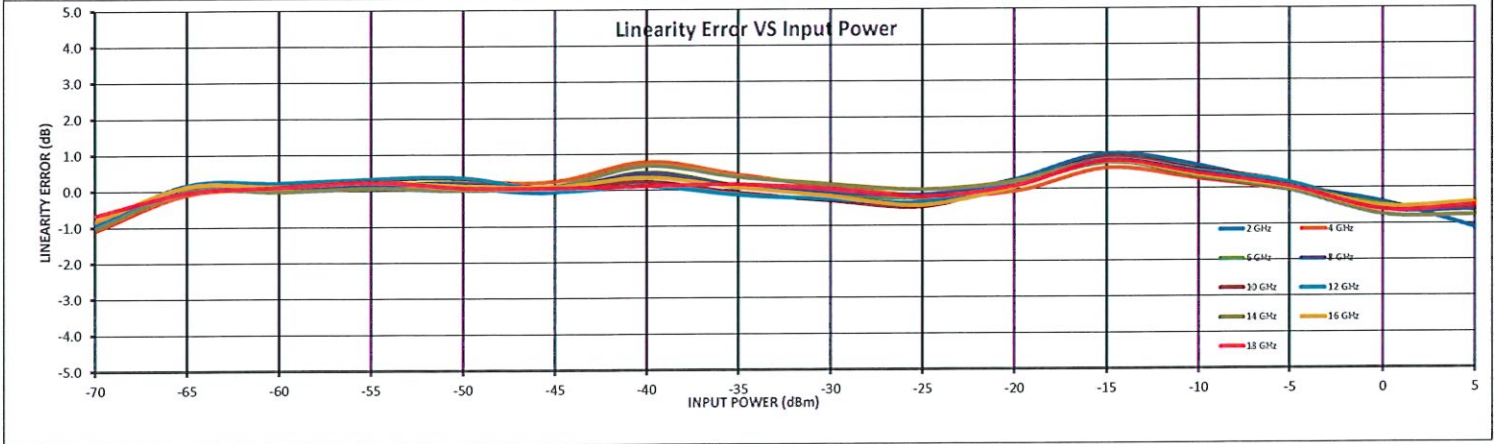
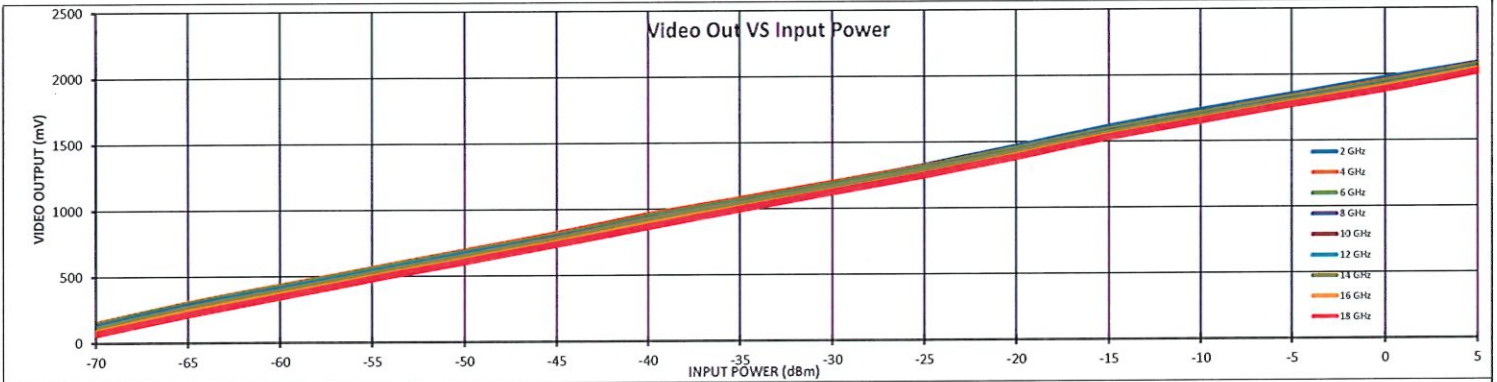
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Serial No: PL42571/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: +85°C

Log Transfer Over Frequency +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	1979	26.1	1.1	131	285	415	549	677	804	946	1069	1192	1321	1464	1613	1735	1850	1969	2081	Measured Value (mV)
				-22	2	1	5	2	-1	11	3	-4	-6	7	25	16	1	-10	-29	Error (mV)
				-0.85	0.07	0.03	0.18	0.08	-0.05	0.41	0.11	-0.16	-0.21	0.26	0.97	0.63	0.04	-0.39	-1.11	LINEARITY ERROR (dB)
4 GHz	1959	25.5	1.1	146	299	430	558	690	818	959	1077	1196	1317	1447	1591	1711	1830	1946	2071	Measured Value (mV)
				-28	-2	1	2	6	6	20	11	2	-5	-2	14	7	-1	-13	-16	Error (mV)
				-1.09	-0.09	0.03	0.07	0.22	0.24	0.78	0.41	0.06	-0.18	-0.08	0.56	0.26	-0.06	-0.51	-0.62	LINEARITY ERROR (dB)
6 GHz	1953	25.5	1.0	141	295	425	553	683	805	945	1062	1184	1309	1445	1589	1707	1825	1941	2055	Measured Value (mV)
				-25	2	4	4	6	1	13	3	-3	-6	2	19	10	0	-12	-16	Error (mV)
				-0.97	0.07	0.14	0.15	0.23	0.02	0.50	0.11	-0.12	-0.23	0.09	0.73	0.37	0.00	-0.47	-0.63	LINEARITY ERROR (dB)
8 GHz	1938	25.6	1.0	124	279	408	537	666	790	928	1046	1169	1295	1431	1574	1692	1810	1922	2050	Measured Value (mV)
				-26	2	3	4	5	2	12	3	-2	-4	4	19	9	0	-16	-16	Error (mV)
				-1.01	0.08	0.12	0.15	0.20	0.06	0.47	0.10	-0.08	-0.16	0.16	0.75	0.37	0.01	-0.16	-0.61	LINEARITY ERROR (dB)
10 GHz	1931	25.6	0.9	116	272	400	531	660	780	913	1033	1156	1279	1422	1570	1689	1807	1917	2046	Measured Value (mV)
				-24	4	5	8	9	1	6	-2	-8	-12	3	22	18	4	-14	-14	Error (mV)
				-0.93	0.17	0.18	0.30	0.34	0.03	0.23	-0.10	-0.31	-0.48	0.11	0.88	0.52	0.16	-0.55	-0.54	LINEARITY ERROR (dB)
12 GHz	1923	25.5	0.9	113	269	398	528	657	775	906	1027	1151	1276	1417	1561	1680	1800	1908	2038	Measured Value (mV)
				-24	4	6	6	9	-1	3	-4	-7	-9	4	20	12	4	-15	-12	Error (mV)
				-0.95	0.17	0.23	0.33	0.36	-0.02	0.12	-0.14	-0.26	-0.36	0.18	0.79	0.47	0.16	-0.58	-0.49	LINEARITY ERROR (dB)
14 GHz	1929	25.7	1.0	102	258	385	517	644	775	918	1038	1162	1286	1420	1563	1681	1799	1910	2039	Measured Value (mV)
				-27	0	0	2	0	3	17	9	4	0	5	19	8	-2	-19	-20	Error (mV)
				-1.05	0.00	-0.02	0.07	0.00	0.11	0.67	0.35	0.15	-0.01	0.21	0.75	0.33	-0.06	-0.74	-0.76	LINEARITY ERROR (dB)
16 GHz	1921	25.9	0.8	87	242	371	503	630	758	894	1016	1139	1262	1404	1552	1672	1792	1908	2039	Measured Value (mV)
				-21	3	3	6	3	2	9	2	-5	-12	1	20	10	1	-13	-11	Error (mV)
				-0.83	0.13	0.12	0.24	0.13	0.10	0.35	0.06	-0.18	-0.45	0.05	0.77	0.39	0.03	-0.50	-0.41	LINEARITY ERROR (dB)
18 GHz	1903	26.0	0.8	67	214	347	481	606	736	867	998	1124	1248	1386	1534	1654	1774	1887	2020	Measured Value (mV)
				-17	-1	3	6	2	1	3	4	0	-5	2	20	11	1	-16	-13	Error (mV)
				-0.67	-0.04	0.10	0.24	0.07	0.05	0.11	0.15	0.01	-0.21	0.08	0.77	0.41	0.04	-0.61	-0.50	LINEARITY ERROR (dB)

Avg. Slope: 25.7 mV/dB

1.5 1.7 1.6 1.5 1.6 1.6 1.8 1.6 1.4 1.4 1.5 1.5 1.6 1.5 1.6 1.2 Flatness dB: ±1.8 dB





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

PL42571/2342



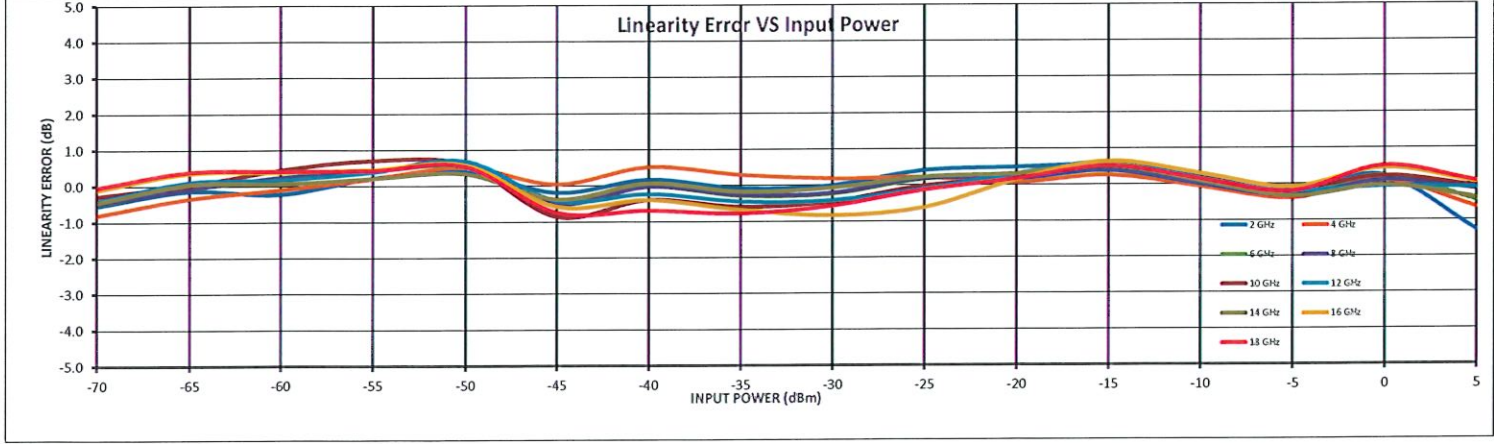
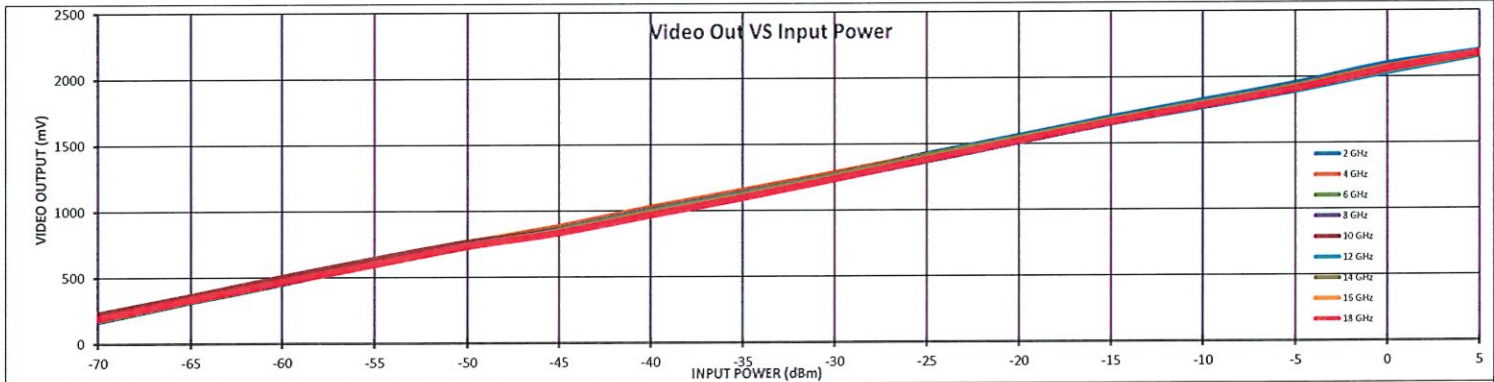
Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42571/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: -40°C

Log Transfer Over Frequency -40°C

Frequency	INTERCEPT (mV)	2090	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2090	169	316	450	588	739	859	1005	1135	1273	1420	1558	1696	1824	1949	2096	2191	Measured Value (mV)
	SLOPE (mV/dB)	27.2	-15	-4	-6	6	11	-5	4	-2	0	11	13	15	6	-4	6	-35	ERROR (mV)
	LIN. ERR. (dB)	1.3	-0.56	-0.14	-0.23	0.22	0.40	-0.19	0.16	-0.09	-0.01	0.40	0.48	0.54	0.23	-0.16	0.22	-1.28	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2070	198	343	481	621	762	892	1026	1153	1282	1415	1543	1680	1804	1928	2073	2185	Measured Value (mV)
	SLOPE (mV/dB)	26.4	-22	-9	-3	5	14	1	14	8	5	5	2	7	-2	-10	3	-17	ERROR (mV)
	LIN. ERR. (dB)	0.8	-0.81	-0.35	-0.11	0.20	0.52	0.04	0.51	0.29	0.18	0.20	0.06	0.26	-0.06	-0.39	0.10	-0.65	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2062	205	349	488	625	760	855	1008	1133	1266	1408	1542	1679	1802	1924	2068	2182	Measured Value (mV)
	SLOPE (mV/dB)	26.3	-13	-2	5	11	14	-12	-1	-8	-5	4	7	12	3	-7	6	-12	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.60	-0.07	0.21	0.41	0.53	-0.47	-0.03	-0.29	-0.24	0.16	0.26	0.44	0.10	-0.27	0.22	-0.46	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	2047	209	351	489	624	758	861	1003	1128	1259	1400	1530	1666	1787	1908	2050	2174	Measured Value (mV)
	SLOPE (mV/dB)	26.1	-13	-2	6	11	14	-13	-1	-7	-8	5	4	10	0	-8	2	-5	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.48	-0.07	0.24	0.42	0.55	-0.51	-0.03	-0.26	-0.22	0.19	0.17	0.38	0.00	-0.32	0.09	-0.15	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2045	227	384	504	640	767	858	1000	1124	1257	1397	1532	1670	1790	1911	2050	2172	Measured Value (mV)
	SLOPE (mV/dB)	25.9	-7	1	12	18	15	-22	-10	-15	-12	-1	5	13	4	-4	6	-2	ERROR (mV)
	LIN. ERR. (dB)	0.9	-0.28	0.03	0.45	0.71	0.59	-0.86	-0.40	-0.60	-0.46	-0.02	0.18	0.50	0.16	-0.15	0.22	-0.07	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2036	180	326	460	597	737	839	976	1102	1235	1375	1517	1657	1777	1900	2035	2165	Measured Value (mV)
	SLOPE (mV/dB)	26.4	-11	3	4	10	18	-11	-5	-12	-11	-3	8	15	4	-5	-2	-3	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.43	0.11	0.17	0.39	0.69	-0.42	-0.23	-0.45	-0.42	-0.11	0.30	0.61	0.16	-0.18	-0.07	-0.11	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	2051	180	326	460	596	732	846	990	1117	1252	1393	1528	1667	1788	1909	2049	2173	Measured Value (mV)
	SLOPE (mV/dB)	26.5	-12	1	2	5	9	-10	2	-5	-2	6	8	15	2	-9	-1	-10	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.46	0.05	0.06	0.20	0.33	-0.38	0.06	-0.18	-0.08	0.22	0.30	0.56	0.09	-0.35	-0.04	-0.39	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	2046	189	334	467	601	737	839	976	1101	1229	1367	1520	1656	1769	1912	2058	2180	Measured Value (mV)
	SLOPE (mV/dB)	26.5	-3	10	10	12	15	-15	-11	-18	-22	-17	4	17	8	-2	12	1	ERROR (mV)
	LIN. ERR. (dB)	0.8	-0.11	0.36	0.39	0.45	0.58	-0.58	-0.40	-0.68	-0.85	-0.63	0.14	0.65	0.30	-0.08	0.44	0.04	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	2045	190	334	467	600	735	833	967	1097	1235	1379	1520	1662	1784	1908	2059	2180	Measured Value (mV)
	SLOPE (mV/dB)	26.5	-1	11	11	14	14	-20	-18	-21	-15	-4	4	14	4	-5	13	2	ERROR (mV)
	LIN. ERR. (dB)	0.782	-0.04	0.40	0.41	0.43	0.54	-0.75	-0.69	-0.78	-0.57	-0.14	0.16	0.51	0.14	-0.20	0.50	0.07	LINEARITY ERROR (dB)

Avg. Slope: 26.4 mV/dB

1.1 0.9 1 0.8 0.7 0.9 1.1 1 1 1 0.8 0.7 0.9 0.9 1.2 0.5 Flatness dB: ±1.2 dB

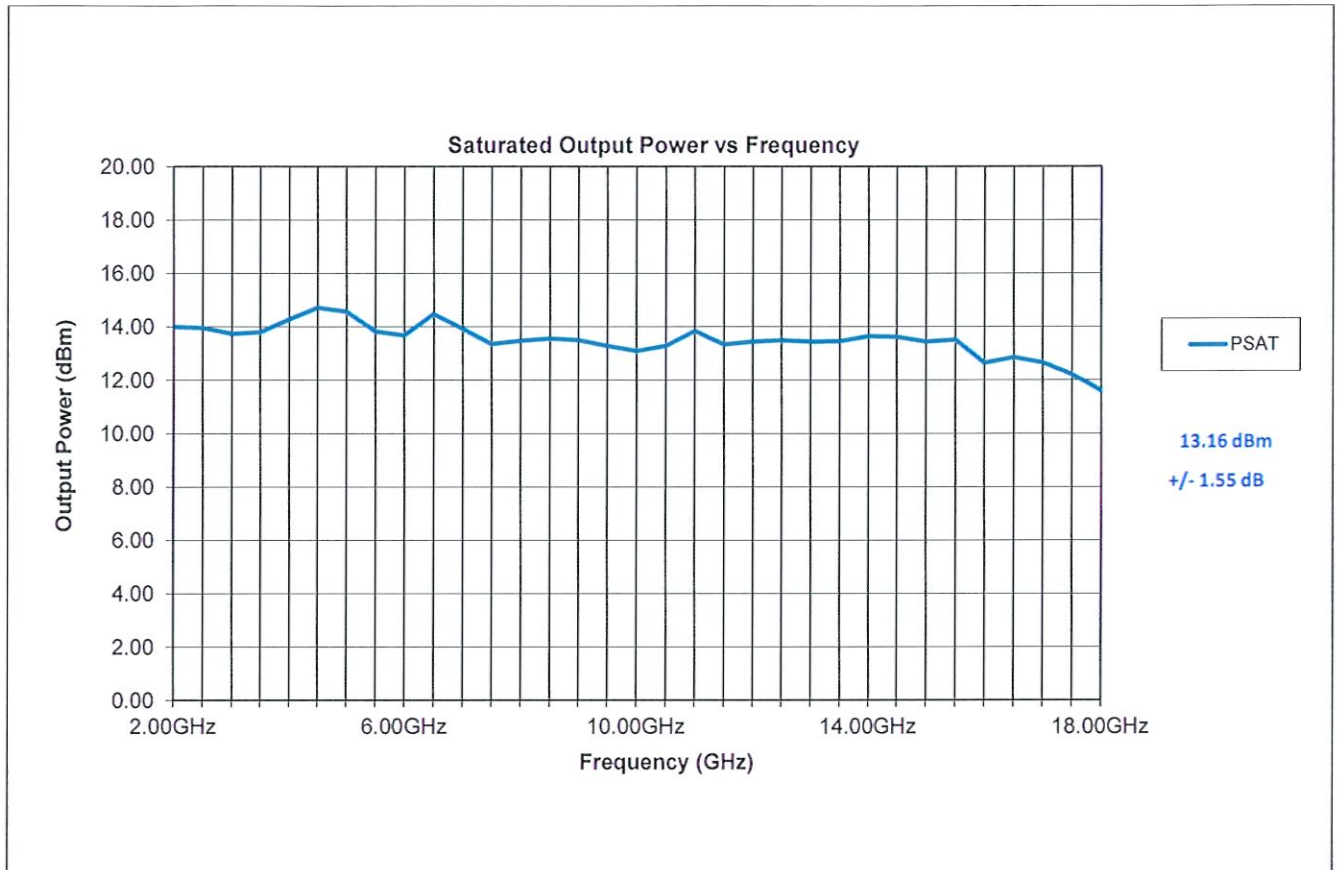




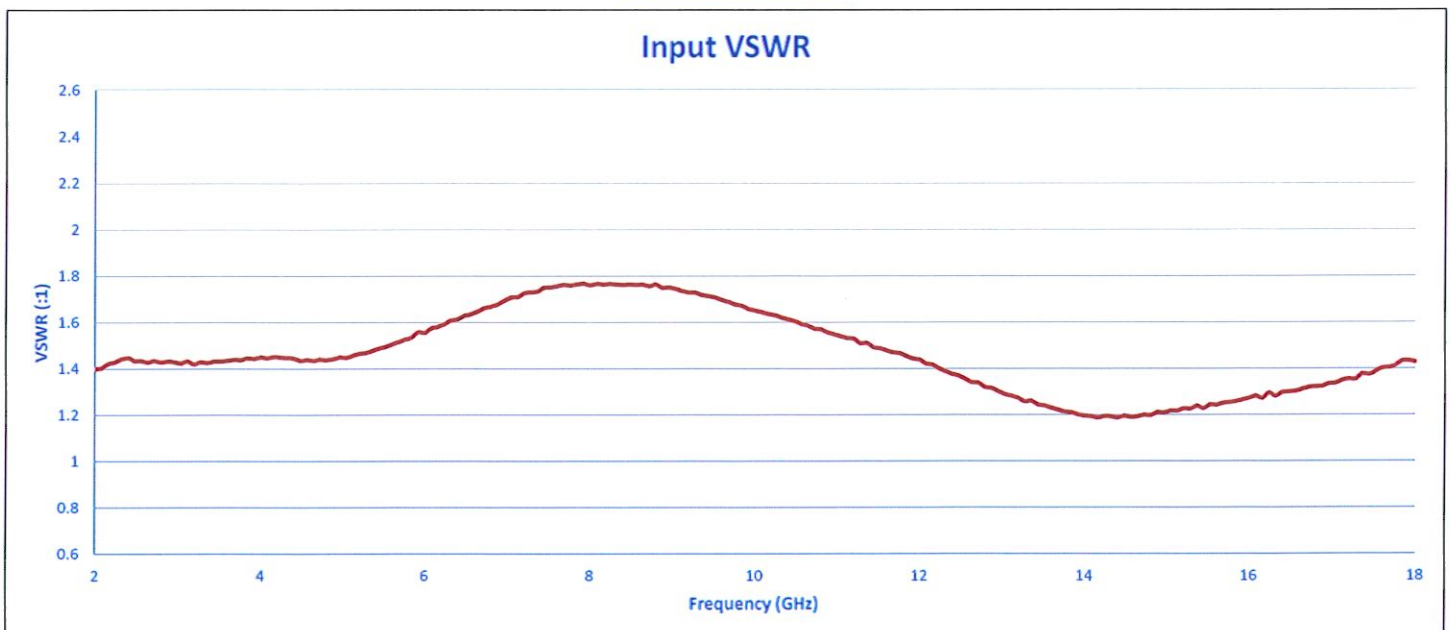
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42571/2342

PSAT



INPUT VSWR

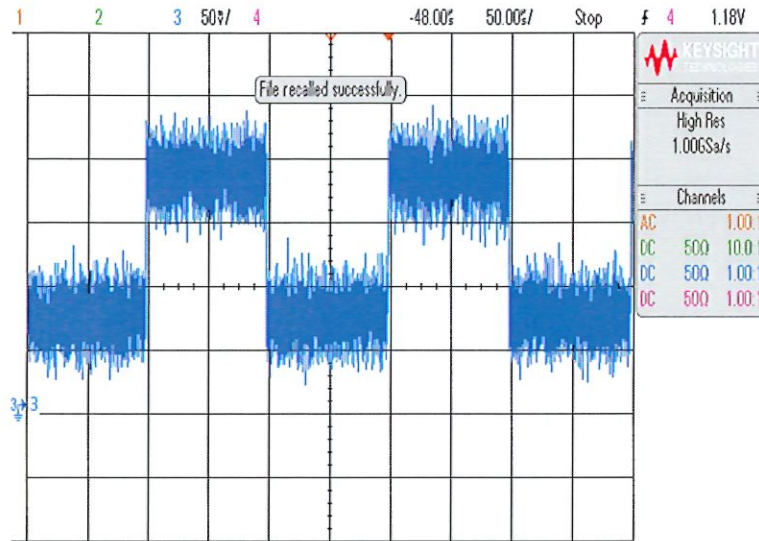




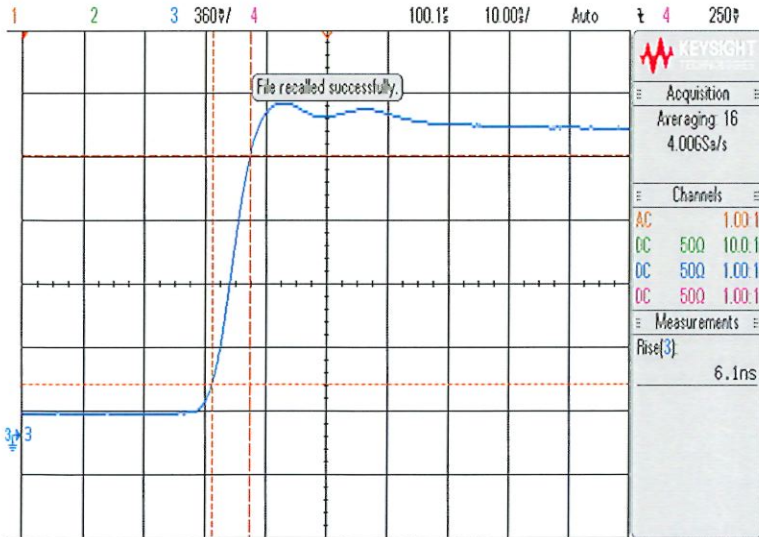
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42571/2342

TSS



Rise Time



Fall Time

