



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

PL37924/2239

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/18/2022
Serial No: PL37924/2239 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 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	11.44 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)	±1.6 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	60.3 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 271 mA -12V @ 101 mA	PMI QA2

QA/QC Approval: 

PMI
QA2

Date: 10/27/2022



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

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Serial No: PL37924/2239
Date: 10/18/2022
Tested By: RCombs
Test Temp: +25°C

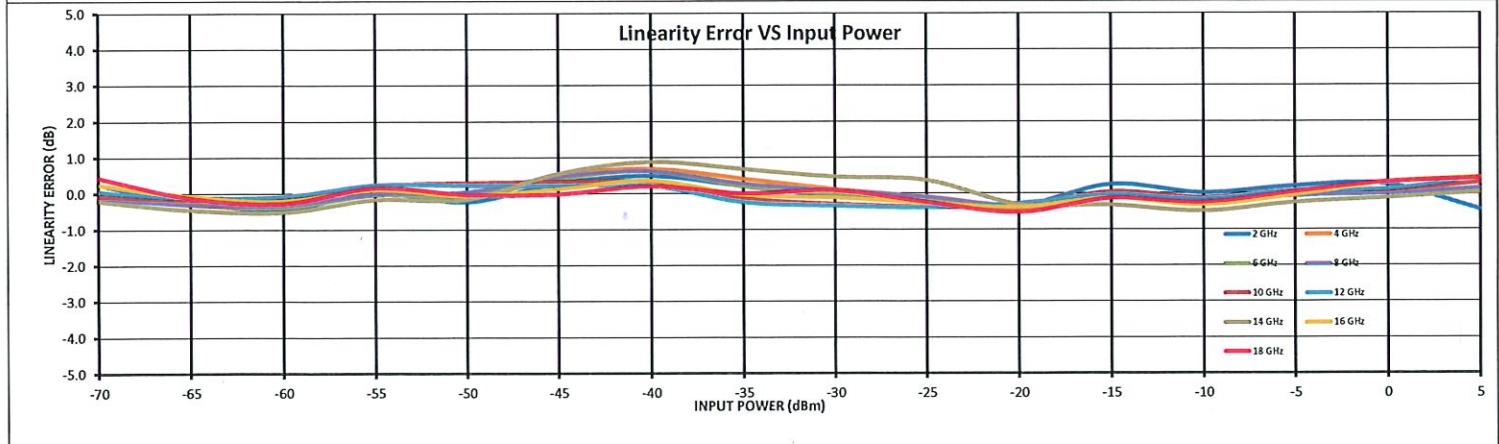
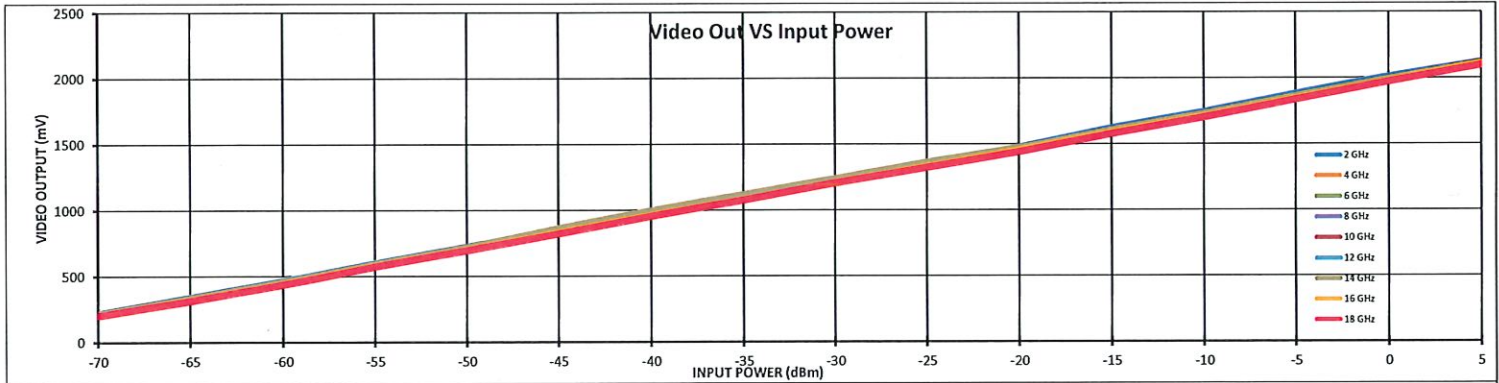


Log Transfer Over Frequency +25°C

Frequency	INTERCEPT (mV)	2010	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2010	201	318	443	584	707	850	986	1108	1230	1355	1482	1628	1751	1886	2017	2128	Measured Value (mV)
	SLOPE (mV/dB)	25.9	7	-6	-11	1	-6	8	13	5	-2	-7	-9	6	0	5	7	-12	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.26	-0.22	-0.43	0.03	-0.22	0.29	0.50	0.21	-0.08	-0.26	-0.35	0.25	0.02	0.21	0.25	-0.45	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1995	214	335	461	596	723	864	996	1116	1235	1357	1475	1611	1733	1868	1998	2122	Measured Value (mV)
	SLOPE (mV/dB)	25.4	-2	-8	-9	-1	-1	13	18	10	3	-3	-12	-3	-8	0	3	0	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.08	-0.30	-0.37	-0.03	-0.05	0.51	0.69	0.40	0.11	-0.11	-0.47	-0.10	-0.30	-0.01	0.11	-0.01	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1989	209	328	452	588	714	854	986	1103	1225	1348	1472	1608	1729	1862	1991	2117	Measured Value (mV)
	SLOPE (mV/dB)	25.6	2	-6	-9	-1	-2	11	16	5	0	-5	-8	1	-6	0	2	1	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.08	-0.24	-0.37	-0.02	-0.08	0.42	0.62	0.20	-0.02	-0.19	-0.32	0.02	-0.22	0.00	0.09	0.02	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1980	216	337	463	596	723	860	989	1106	1227	1349	1468	1599	1721	1852	1980	2109	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-3	-7	-8	0	1	12	16	7	2	-2	-9	-3	-7	-2	0	3	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.11	-0.29	-0.32	0.00	0.05	0.48	0.63	0.27	0.08	-0.09	-0.35	-0.12	-0.29	-0.07	0.00	0.14	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1977	222	344	471	605	732	858	983	1097	1218	1341	1467	1602	1723	1854	1979	2110	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-2	-4	-3	6	7	8	8	-3	-8	-10	-9	1	-3	2	2	7	ERROR (mV)
	LIN. ERR. (dB)	0.4	-0.07	-0.16	-0.12	0.22	0.30	0.33	0.32	-0.13	-0.30	-0.38	-0.36	0.04	-0.13	0.07	0.08	0.29	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1973	219	340	466	600	725	850	975	1089	1212	1336	1464	1596	1718	1849	1976	2110	Measured Value (mV)
	SLOPE (mV/dB)	25.4	2	-3	-2	6	6	6	6	-6	-8	-10	-7	-1	-4	2	3	11	ERROR (mV)
	LIN. ERR. (dB)	0.4	0.06	-0.10	-0.07	0.25	0.23	0.22	0.23	-0.23	-0.34	-0.39	-0.28	-0.04	-0.16	0.07	0.11	0.45	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1983	214	334	458	593	719	863	997	1118	1239	1363	1471	1597	1719	1851	1980	2110	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-5	-11	-13	-4	-4	14	22	17	12	9	-8	-8	-13	-6	-3	1	ERROR (mV)
	LIN. ERR. (dB)	0.9	-0.20	-0.45	-0.51	-0.16	-0.15	0.56	0.88	0.68	0.46	0.37	-0.31	-0.32	-0.50	-0.25	-0.13	0.03	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1982	211	330	454	589	712	843	976	1093	1218	1341	1465	1598	1720	1854	1990	2120	Measured Value (mV)
	SLOPE (mV/dB)	25.4	7	-2	-5	3	-1	3	9	-1	-3	-7	-10	-3	-8	-1	8	11	ERROR (mV)
	LIN. ERR. (dB)	0.4	0.26	-0.07	-0.20	0.12	-0.05	0.13	0.36	-0.04	-0.11	-0.26	-0.38	-0.13	-0.33	-0.05	0.31	0.43	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1961	200	313	435	573	695	821	954	1075	1204	1322	1441	1577	1701	1835	1968	2097	Measured Value (mV)
	SLOPE (mV/dB)	25.3	11	-3	-7	4	-1	0	5	0	2	-6	-14	-4	-7	1	8	10	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.44	-0.12	-0.27	0.16	-0.03	-0.02	0.20	0.00	0.08	-0.25	-0.53	-0.14	-0.26	0.04	0.30	0.41	LINEARITY ERROR (dB)

Avg. Slope: 25.3 mV/dB

0.4 0.6 0.7 0.6 0.7 0.8 0.9 0.9 0.7 0.8 0.8 1 1 1 1 0.6 Flatness dB: ±1 dB





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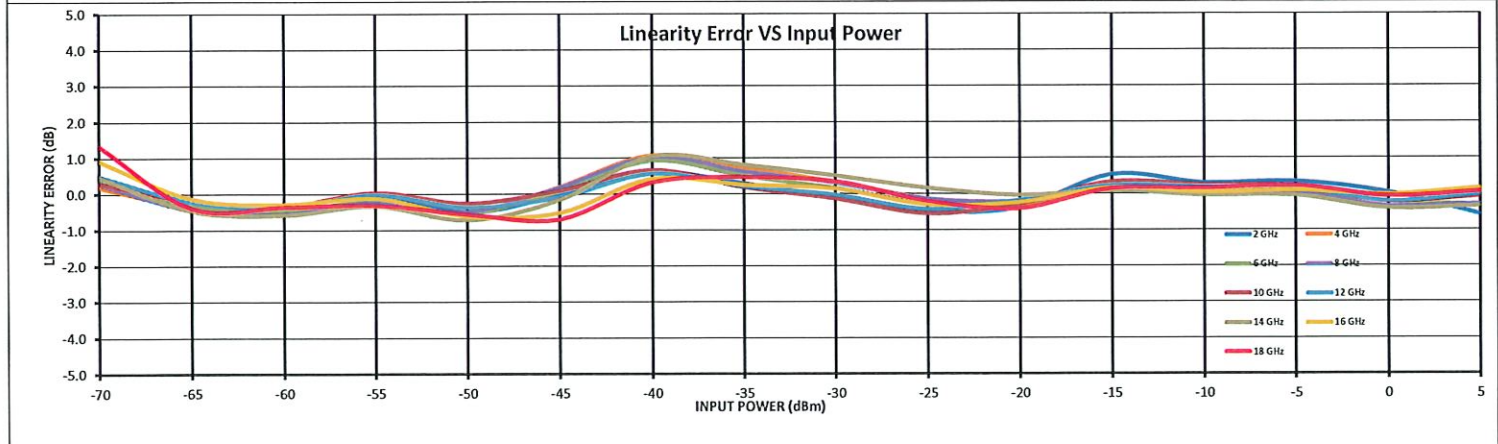
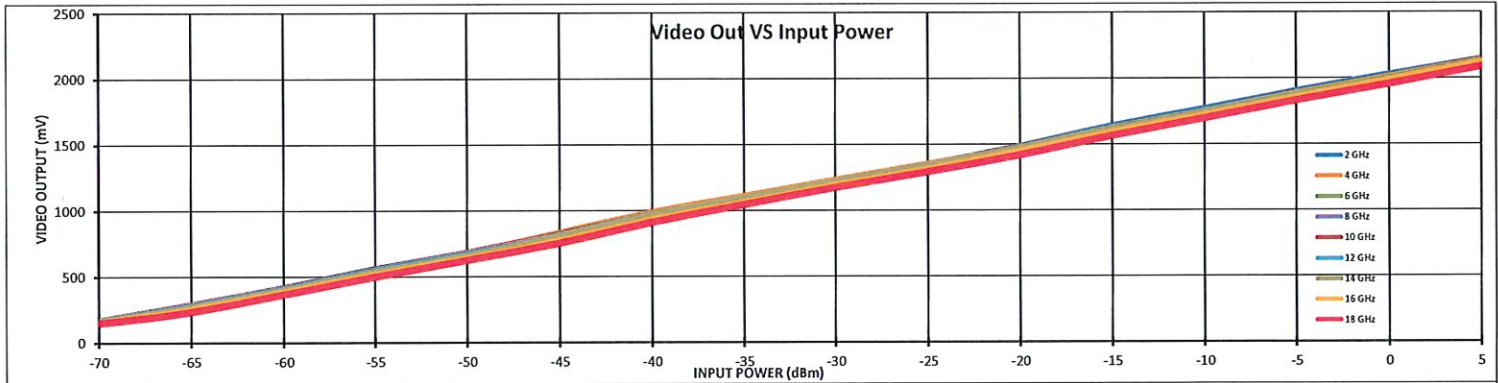
PL37924/2239

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37924/2239
 Date: 10/18/2022
 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	2032	26.7	0.6	176	294	422	565	685	831	981	1106	1229	1352	1488	1646	1773	1908	2033	2150	Measured Value (mV)
				11	-5	-10	0	-13	0	16	8	-2	-13	-10	14	8	9	1	-15	ERROR (mV)
				0.43	-0.17	-0.37	0.01	-0.50	-0.01	0.61	0.30	-0.09	-0.48	-0.38	0.54	0.30	0.34	0.04	-0.57	LINEARITY ERROR (dB)
4 GHz	2021	26.4	1.1	175	292	420	561	684	836	991	1115	1236	1356	1482	1628	1755	1890	2015	2144	Measured Value (mV)
				5	-10	-14	-6	-14	2	28	19	9	-4	-10	4	-1	2	-6	-9	ERROR (mV)
				0.19	-0.37	-0.63	-0.21	-0.54	0.20	1.07	0.74	0.33	-0.14	-0.37	0.15	-0.04	0.06	-0.22	-0.34	LINEARITY ERROR (dB)
6 GHz	2014	26.4	0.9	174	289	417	557	679	828	982	1103	1226	1347	1480	1625	1751	1885	2008	2138	Measured Value (mV)
				9	-8	-12	-5	-14	2	25	13	4	-7	-6	7	2	3	-6	-8	ERROR (mV)
				0.34	-0.30	-0.47	-0.17	-0.53	0.09	0.93	0.51	0.16	-0.25	-0.23	0.27	0.07	0.12	-0.22	-0.31	LINEARITY ERROR (dB)
8 GHz	2004	26.3	1.0	171	284	412	552	677	826	980	1101	1224	1343	1473	1614	1743	1874	1995	2128	Measured Value (mV)
				8	-11	-15	-6	-13	5	27	17	8	-4	-5	4	1	1	-9	-8	ERROR (mV)
				0.29	-0.43	-0.55	-0.23	-0.49	0.19	1.03	0.63	0.31	-0.14	-0.20	0.14	0.05	0.03	-0.35	-0.29	LINEARITY ERROR (dB)
10 GHz	2004	26.2	0.7	175	293	421	562	685	826	972	1090	1213	1333	1471	1619	1747	1878	1998	2133	Measured Value (mV)
				8	-5	-9	1	-7	2	17	5	-3	-14	-8	9	6	5	-6	-2	ERROR (mV)
				0.30	-0.19	-0.34	0.04	-0.27	0.09	0.66	0.19	-0.13	-0.55	-0.29	0.33	0.24	0.20	-0.22	-0.08	LINEARITY ERROR (dB)
12 GHz	1999	26.3	0.6	168	281	409	550	672	812	960	1083	1208	1329	1467	1610	1740	1871	1993	2130	Measured Value (mV)
				13	-6	-9	0	-10	-2	15	6	-1	-11	-5	6	5	4	-6	0	ERROR (mV)
				0.51	-0.21	-0.35	-0.01	-0.37	-0.08	0.57	0.22	-0.02	-0.43	-0.17	0.23	0.18	0.16	-0.21	-0.02	LINEARITY ERROR (dB)
14 GHz	2003	26.5	1.1	164	272	401	540	662	809	973	1099	1223	1346	1473	1609	1738	1870	1993	2127	Measured Value (mV)
				13	-12	-15	-9	-19	-4	28	22	14	4	-1	2	-1	-1	-11	-9	ERROR (mV)
				0.48	-0.46	-0.58	-0.33	-0.72	-0.16	1.06	0.82	0.51	0.16	-0.04	0.09	-0.05	-0.05	-0.41	-0.34	LINEARITY ERROR (dB)
16 GHz	1998	26.6	0.9	161	266	394	532	652	787	945	1074	1204	1325	1460	1603	1733	1867	1997	2135	Measured Value (mV)
				25	-3	-8	-3	-16	-14	11	7	4	-8	-6	4	1	3	-1	4	ERROR (mV)
				0.92	-0.12	-0.29	-0.11	-0.61	-0.52	0.42	0.26	0.15	-0.30	-0.23	0.17	0.04	0.10	-0.03	0.16	LINEARITY ERROR (dB)
18 GHz	1957	26.3	1.3	148	234	366	500	625	752	911	1047	1175	1293	1419	1565	1697	1831	1955	2090	Measured Value (mV)
				35	-10	-10	-8	-15	-19	8	12	9	-5	-11	4	4	6	-2	1	ERROR (mV)
				1.34	-0.39	-0.37	-0.31	-0.56	-0.71	0.32	0.46	0.35	-0.20	-0.41	0.14	0.15	0.22	-0.07	0.05	LINEARITY ERROR (dB)
Avg. Slope: 26.4 mV/dB				0.5	1.1	1	1.2	1.1	1.6	1.5	1.3	1.1	1.2	1.3	1.5	1.4	1.5	1.5	1.1	Flatness dB: ±1.6 dB





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

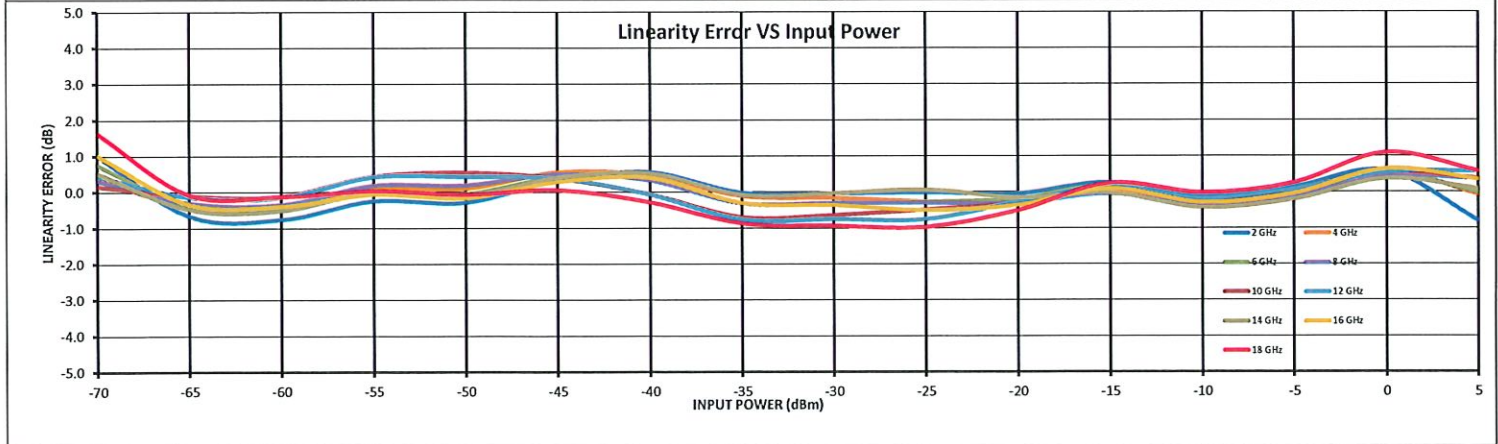
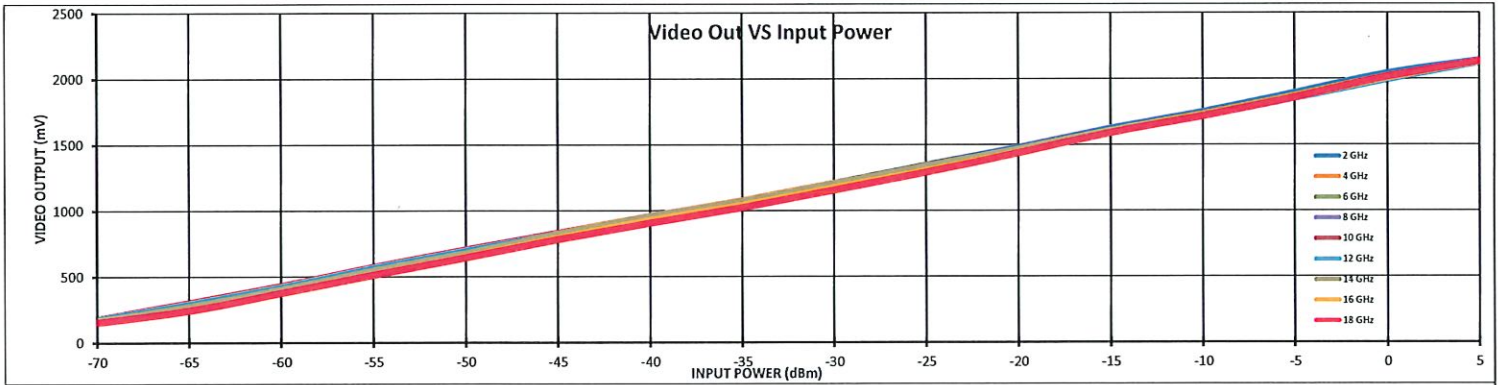
PL37924/2239

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37924/2239
 Date: 10/18/2022
 Tested By: RCombs
 Test Temp: -40°C

Frequency	INTERCEPT (mV)	2031	162	242	376	526	661	814	957	1077	1213	1350	1485	1630	1756	1899	2048	2146	RF Input Power (dBm)
2 GHz	SLOPE (mV/dB)	27.3	28	-18	-21	-6	-8	9	15	0	-1	0	-1	7	-3	4	16	-22	Measured Value (mV)
	LIN. ERR. (dB)	1.0	1.03	-0.66	-0.76	-0.23	-0.28	0.33	0.56	-0.02	-0.04	-0.01	-0.04	0.27	-0.11	0.14	0.59	-0.80	ERROR (mV)
4 GHz	INTERCEPT (mV)	2010	171	282	412	559	692	836	966	1082	1213	1342	1472	1615	1737	1877	2026	2140	Measured Value (mV)
	SLOPE (mV/dB)	26.4	10	-11	-13	2	3	15	13	-3	-4	-7	-10	1	-9	0	16	-2	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.39	-0.41	-0.49	0.09	0.10	0.56	0.47	-0.11	-0.16	-0.27	-0.36	0.04	-0.33	-0.02	0.59	-0.08	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2004	163	265	396	541	673	819	951	1065	1198	1332	1467	1610	1732	1870	2018	2136	Measured Value (mV)
	SLOPE (mV/dB)	26.6	20	-11	-13	0	-1	11	10	-8	-9	-7	-5	5	-6	-1	14	0	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.76	-0.40	-0.47	-0.01	-0.04	0.43	0.39	-0.31	-0.32	-0.27	-0.19	0.19	-0.24	-0.02	0.53	-0.02	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1989	175	289	418	562	693	831	956	1070	1200	1330	1460	1597	1719	1856	2000	2128	Measured Value (mV)
	SLOPE (mV/dB)	26.0	9	-8	-9	5	5	13	9	-8	-8	-8	-8	-1	-10	-3	11	10	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.33	-0.30	-0.34	0.19	0.20	0.51	0.33	-0.31	-0.30	-0.30	-0.30	-0.04	-0.37	-0.10	0.43	0.37	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1989	186	308	437	581	712	837	955	1068	1198	1331	1465	1605	1726	1862	2004	2128	Measured Value (mV)
	SLOPE (mV/dB)	25.8	4	-3	-3	11	14	10	-1	-18	-17	-13	-8	3	-6	2	14	10	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.16	-0.10	-0.12	0.44	0.54	0.39	-0.05	-0.70	-0.64	-0.50	-0.31	0.11	-0.22	0.06	0.56	0.37	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1982	176	291	420	565	695	824	942	1053	1184	1313	1456	1596	1718	1854	1996	2127	Measured Value (mV)
	SLOPE (mV/dB)	26.0	12	-3	-4	11	11	10	-1	-20	-19	-20	-7	4	-5	2	14	15	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.45	-0.13	-0.14	0.43	0.43	0.39	-0.06	-0.76	-0.75	-0.76	-0.27	0.15	-0.18	0.08	0.55	0.57	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1996	168	273	404	549	678	823	957	1073	1206	1340	1466	1601	1722	1859	2006	2130	Measured Value (mV)
	SLOPE (mV/dB)	26.3	14	-13	-13	0	-3	11	14	-2	-1	2	-4	-1	-11	-5	10	2	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.54	-0.48	-0.51	0.01	-0.10	0.41	0.53	-0.08	-0.04	0.07	-0.15	-0.02	-0.43	-0.20	0.37	0.08	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1994	159	256	388	529	660	804	941	1055	1186	1315	1452	1597	1720	1860	2011	2136	Measured Value (mV)
	SLOPE (mV/dB)	26.6	27	-9	-10	-2	-4	8	11	-8	-10	-14	-10	3	-8	-1	17	9	ERROR (mV)
	LIN. ERR. (dB)	1.0	1.03	-0.33	-0.39	-0.06	-0.15	0.28	0.41	-0.30	-0.36	-0.52	-0.37	0.10	-0.29	-0.04	0.64	0.35	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1986	154	242	374	513	644	781	906	1024	1156	1289	1436	1590	1717	1858	2015	2135	Measured Value (mV)
	SLOPE (mV/dB)	26.8	44	-2	-4	1	-2	2	-8	-23	-25	-26	-14	7	-1	7	29	15	ERROR (mV)
	LIN. ERR. (dB)	1.639	1.64	-0.07	-0.13	0.04	-0.07	0.06	-0.28	-0.87	-0.94	-0.98	-0.52	0.25	-0.03	0.25	1.09	0.58	LINEARITY ERROR (dB)
Avg. Slope: 26.4 mV/dB			0.6	1.3	1.2	1.3	1.3	1.1	1.1	1.1	1.1	1.1	0.9	0.8	0.7	0.8	1	0.4	Flatness dB: -1.13 dB

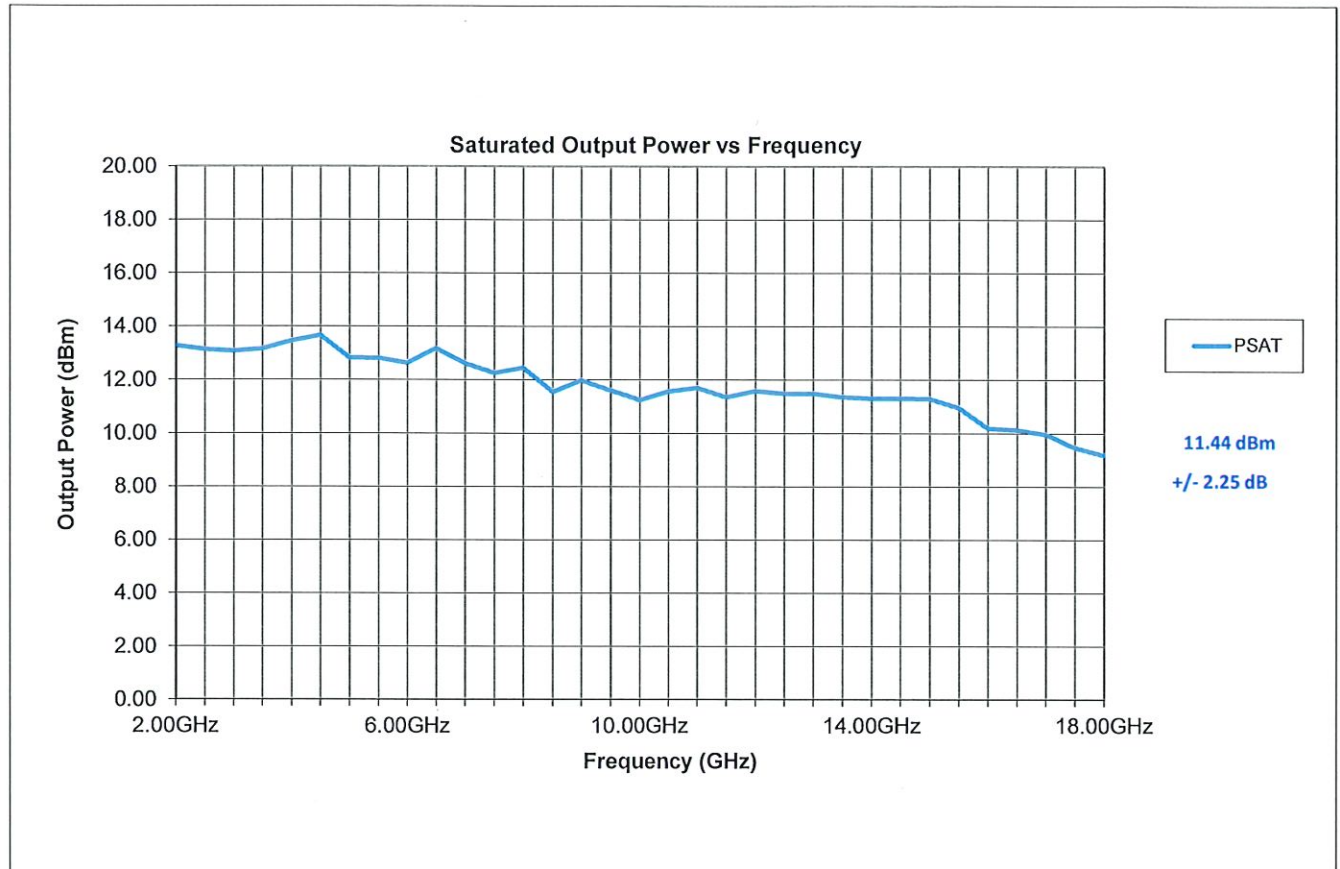




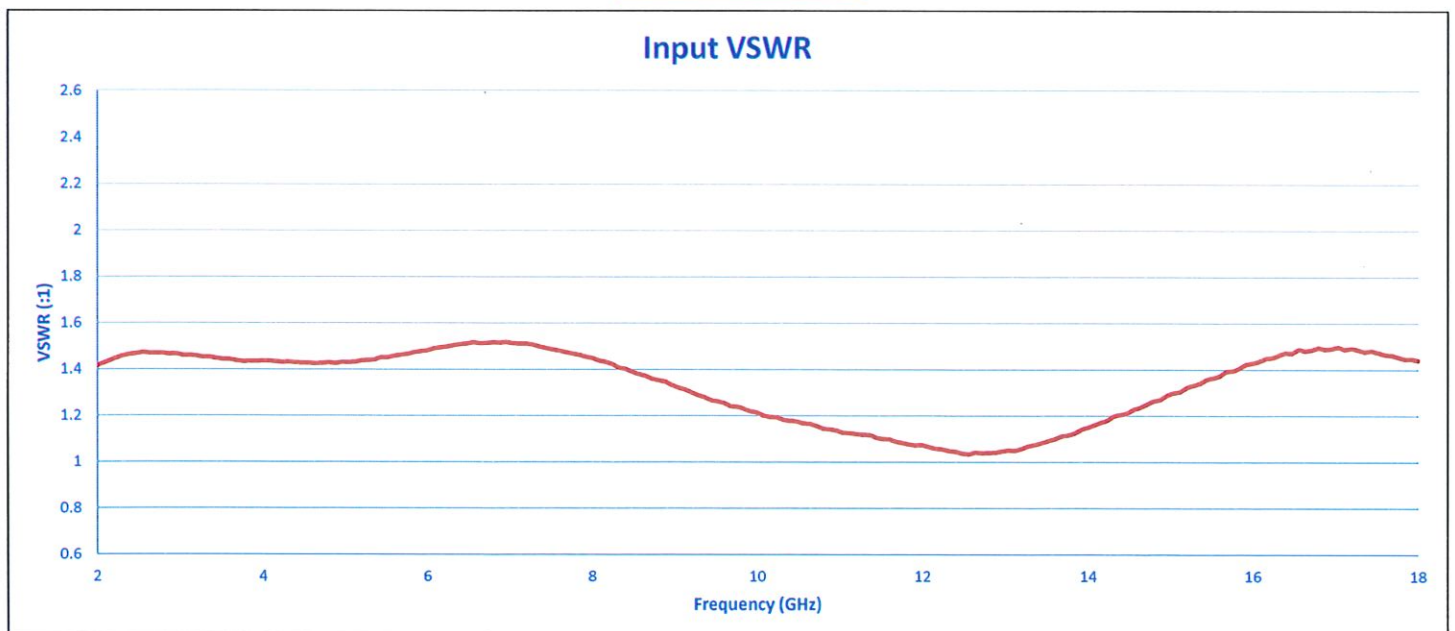
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37924/2239

PSAT



INPUT VSWR

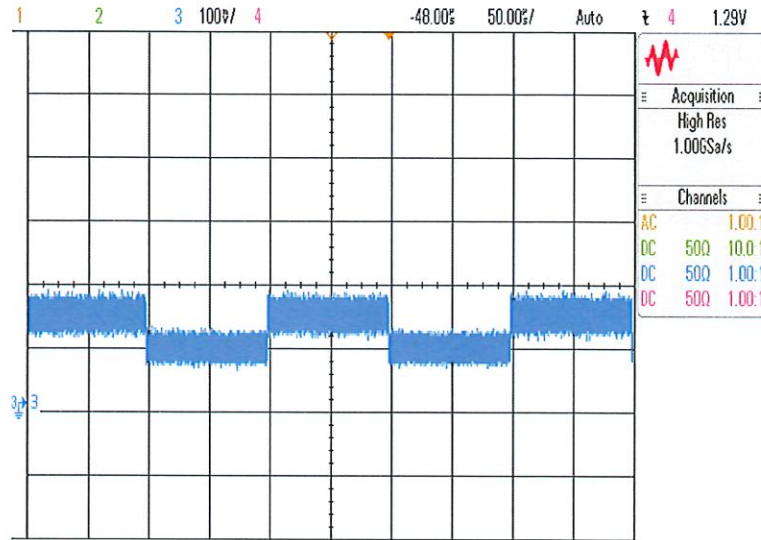




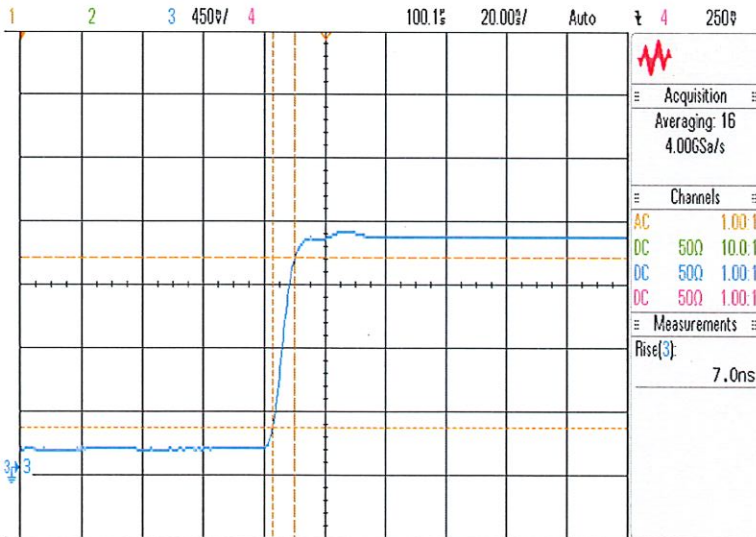
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37924/2239

TSS



Rise Time



Fall Time

