



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

PL38190/2243

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/25/2022
Serial No: PL38190/2243 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	±1.4 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	14.02 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)	±1.4 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	58.0 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 279 mA -12V @ 98 mA	PMI QA2

QA/QC Approval: PMI
QA2

Date: 10/27/2022



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

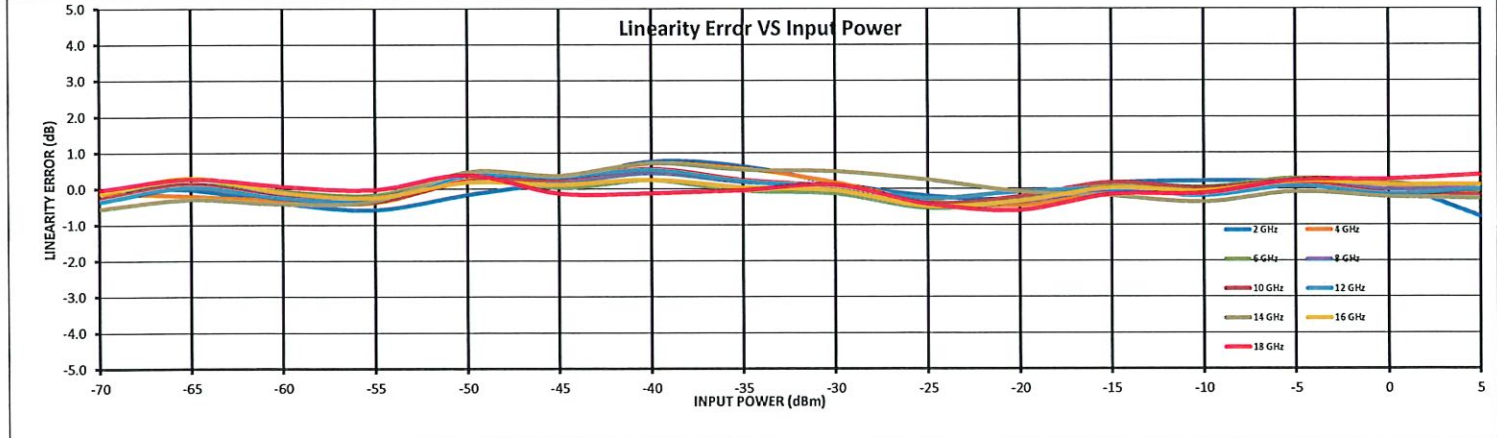
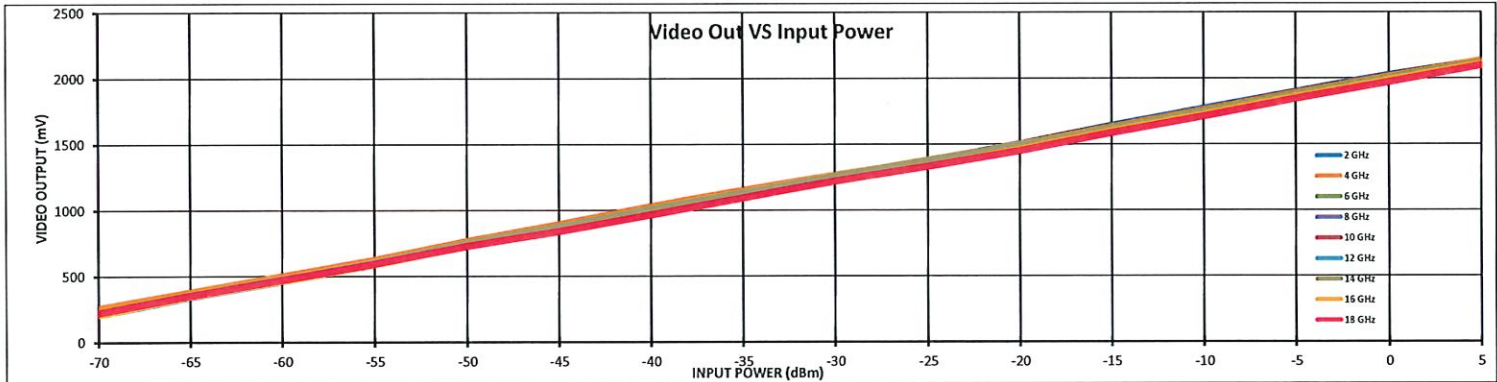
PL38190/2243

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL38190/2243
Date: 10/25/2022
Tested By: RCombs
Test Temp: +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	2027	25.5	0.8	239	367	485	608	746	884	1025	1160	1265	1384	1509	1648	1777	1904	2030	2135	Measured Value (mV)
				-1	0	-10	-15	-4	5	20	16	4	-5	-7	4	5	5	2	-20	ERROR (mV)
				-0.02	-0.01	-0.38	-0.58	-0.16	0.21	0.76	0.63	0.15	-0.20	-0.28	0.14	0.21	0.19	0.10	-0.77	LINEARITY ERROR (dB)
4 GHz	2018	25.0	0.7	262	385	508	631	772	899	1034	1156	1271	1383	1506	1639	1764	1897	2021	2139	Measured Value (mV)
				-3	-5	-8	-10	6	8	18	14	4	-9	-12	-3	-4	4	3	-5	ERROR (mV)
				-0.11	-0.20	-0.31	-0.38	0.25	0.34	0.70	0.56	0.17	-0.35	-0.46	-0.13	-0.14	0.16	0.10	-0.18	LINEARITY ERROR (dB)
6 GHz	2007	25.3	0.5	233	365	486	610	750	888	1000	1119	1244	1360	1492	1630	1754	1887	2011	2131	Measured Value (mV)
				-2	4	-2	-4	10	1	6	-1	-3	-13	-9	3	1	7	4	-2	ERROR (mV)
				-0.08	0.14	-0.06	-0.16	0.38	0.03	0.24	-0.05	-0.13	-0.53	-0.34	0.14	0.04	0.29	0.16	-0.07	LINEARITY ERROR (dB)
8 GHz	1989	25.1	0.4	223	357	477	600	741	863	995	1114	1236	1350	1477	1611	1735	1868	1998	2115	Measured Value (mV)
				-7	2	-4	-6	9	5	11	5	2	-10	-9	-1	-3	5	-1	1	ERROR (mV)
				-0.26	0.08	-0.15	-0.25	0.37	0.19	0.44	0.19	0.07	-0.40	-0.36	-0.03	-0.10	0.21	-0.03	0.03	LINEARITY ERROR (dB)
10 GHz	1991	25.4	0.6	209	346	464	588	729	857	991	1110	1231	1347	1479	1615	1738	1870	1988	2114	Measured Value (mV)
				-7	3	-6	-9	6	7	14	6	1	-10	-5	4	0	5	-4	-5	ERROR (mV)
				-0.28	0.13	-0.24	-0.35	0.22	0.27	0.55	0.24	0.04	-0.41	-0.22	0.17	0.01	0.20	-0.15	-0.18	LINEARITY ERROR (dB)
12 GHz	1991	25.3	0.5	209	346	465	590	734	859	991	1110	1232	1351	1482	1611	1733	1866	1987	2117	Measured Value (mV)
				-9	1	-6	-8	9	8	13	5	1	-7	-2	0	-5	2	2	0	ERROR (mV)
				-0.35	0.05	-0.26	-0.31	0.37	0.33	0.52	0.21	0.04	-0.26	-0.07	-0.01	-0.19	0.08	-0.16	0.00	LINEARITY ERROR (dB)
14 GHz	2001	25.1	0.7	227	360	482	610	756	879	1014	1135	1259	1379	1496	1619	1741	1873	1996	2120	Measured Value (mV)
				-14	-7	-11	-8	12	9	18	13	12	6	-2	-5	-9	-2	-6	-7	ERROR (mV)
				-0.56	-0.29	-0.42	-0.33	0.48	0.37	0.72	0.53	0.48	0.25	-0.08	-0.19	-0.37	-0.08	-0.23	-0.28	LINEARITY ERROR (dB)
16 GHz	1993	25.6	0.5	201	339	457	581	720	846	977	1100	1225	1342	1473	1610	1736	1871	1996	2124	Measured Value (mV)
				-3	8	-2	-6	5	3	6	1	-1	-12	-9	1	-2	5	3	3	ERROR (mV)
				-0.12	0.31	-0.09	-0.23	0.19	0.12	0.25	0.04	-0.04	-0.48	-0.34	0.03	-0.07	0.21	0.11	0.11	LINEARITY ERROR (dB)
18 GHz	1963	24.9	0.6	222	354	473	595	730	841	965	1092	1220	1331	1451	1586	1711	1844	1969	2097	Measured Value (mV)
				-1	7	2	-1	10	-3	-3	-1	2	-11	-16	-4	-3	6	6	9	ERROR (mV)
				-0.04	0.27	0.07	-0.03	0.39	-0.13	-0.13	-0.05	0.10	-0.43	-0.60	-0.16	-0.13	0.23	0.25	0.38	LINEARITY ERROR (dB)
Avg. Slope: 25.3 mV/dB				1.2	0.9	1	1	1	1.2	1.4	1.3	1	1.1	1.2	1.2	1.3	1.2	1.2	0.8	Flatness dB: ±1.4 dB





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

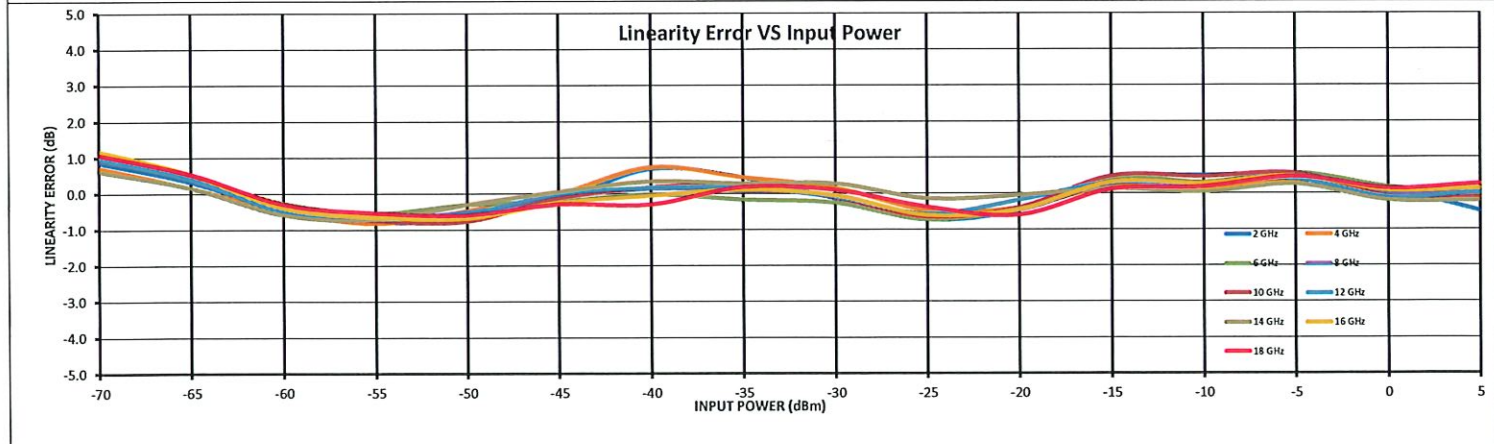
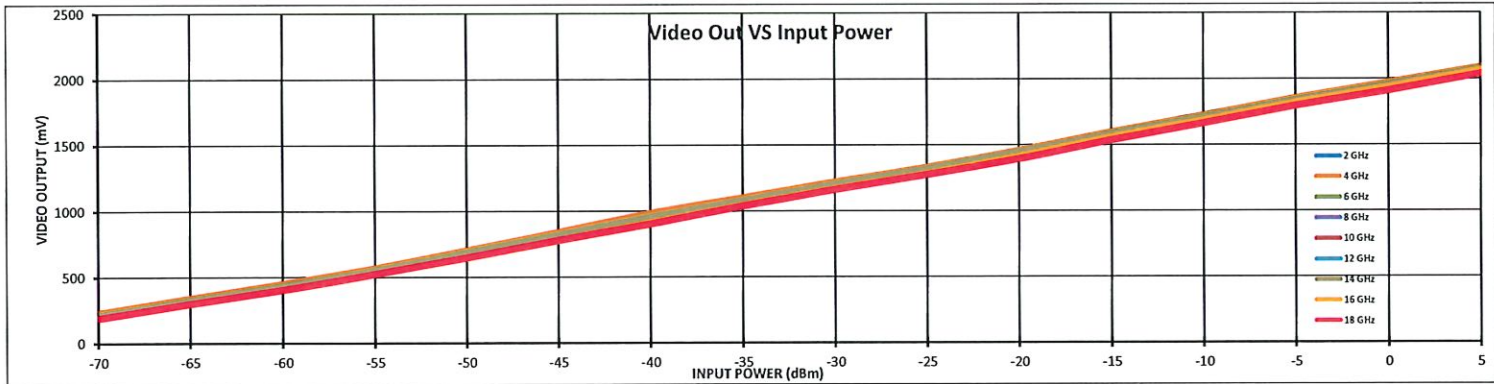
PL38190/2243

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL38190/2243
 Date: 10/25/2022
 Tested By: RCombs
 Test Temp: +85°C

Frequency		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	1966																Measured Value (mV)
	SLOPE (mV/dB)	25.1																ERROR (mV)
	LIN. ERR. (dB)	0.9																LINEARITY ERROR (dB)
		233	345	451	567	695	833	980	1100	1210	1321	1453	1600	1727	1853	1969	2079	
		22	8	-11	-20	-17	-4	17	11	-4	-18	-12	10	12	12	3	-12	
		0.87	0.34	-0.43	-0.79	-0.68	-0.18	0.70	0.45	-0.14	-0.72	-0.47	0.42	0.49	0.49	0.13	-0.48	
4 GHz	INTERCEPT (mV)	1974																Measured Value (mV)
	SLOPE (mV/dB)	25.8																ERROR (mV)
	LIN. ERR. (dB)	0.1																LINEARITY ERROR (dB)
		236	347	457	573	708	845	989	1107	1225	1335	1462	1602	1725	1858	1974	2094	
		18	4	-12	-21	-12	0	18	11	4	-12	-10	5	2	9	0	-5	
		0.73	0.17	-0.47	-0.82	-0.48	-0.01	0.73	0.45	0.16	-0.47	-0.41	0.19	0.07	0.36	0.01	-0.20	
6 GHz	INTERCEPT (mV)	1960																Measured Value (mV)
	SLOPE (mV/dB)	25.2																ERROR (mV)
	LIN. ERR. (dB)	0.9																LINEARITY ERROR (dB)
		219	334	441	560	692	820	951	1074	1198	1312	1445	1593	1716	1848	1965	2086	
		24	12	-7	-14	-8	-5	0	-4	-6	-18	-11	11	8	14	4	0	
		0.94	0.49	-0.28	-0.54	-0.30	-0.21	-0.01	-0.16	-0.25	-0.73	-0.42	0.43	0.30	0.56	0.17	-0.02	
8 GHz	INTERCEPT (mV)	1944																Measured Value (mV)
	SLOPE (mV/dB)	25.2																ERROR (mV)
	LIN. ERR. (dB)	0.9																LINEARITY ERROR (dB)
		204	318	423	542	672	807	940	1064	1187	1299	1429	1573	1699	1832	1944	2072	
		24	12	-9	-16	-13	-3	4	2	-1	-15	-12	7	7	13	0	2	
		0.93	0.48	-0.37	-0.65	-0.50	-0.11	0.15	0.09	-0.05	-0.61	-0.46	0.27	0.26	0.52	0.00	0.06	
10 GHz	INTERCEPT (mV)	1941																Measured Value (mV)
	SLOPE (mV/dB)	25.5																ERROR (mV)
	LIN. ERR. (dB)	1.1																LINEARITY ERROR (dB)
		186	298	401	521	647	791	926	1055	1174	1287	1421	1571	1698	1827	1938	2065	
		28	13	-11	-19	-20	-3	4	6	-3	-17	-10	12	12	14	-3	-3	
		1.11	0.49	-0.44	-0.74	-0.77	-0.13	0.17	0.22	-0.11	-0.65	-0.40	0.48	0.46	0.55	-0.10	-0.12	
12 GHz	INTERCEPT (mV)	1948																Measured Value (mV)
	SLOPE (mV/dB)	25.4																ERROR (mV)
	LIN. ERR. (dB)	1.0																LINEARITY ERROR (dB)
		193	306	410	532	663	804	935	1062	1183	1298	1435	1574	1700	1831	1945	2076	
		25	10	-12	-18	-14	0	4	4	-2	-14	-5	8	6	10	-3	1	
		0.98	0.40	-0.49	-0.71	-0.54	0.00	0.16	0.17	-0.09	-0.57	-0.18	0.31	0.25	0.40	-0.12	0.03	
14 GHz	INTERCEPT (mV)	1955																Measured Value (mV)
	SLOPE (mV/dB)	25.2																ERROR (mV)
	LIN. ERR. (dB)	0.7																LINEARITY ERROR (dB)
		208	323	430	552	689	824	957	1081	1207	1322	1450	1581	1704	1836	1950	2076	
		16	4	-15	-18	-8	1	9	7	7	-4	-1	3	1	6	-5	-5	
		0.63	0.17	-0.58	-0.71	-0.30	0.05	0.34	0.28	0.28	-0.14	-0.05	0.14	0.04	0.25	-0.19	-0.20	
16 GHz	INTERCEPT (mV)	1946																Measured Value (mV)
	SLOPE (mV/dB)	25.5																ERROR (mV)
	LIN. ERR. (dB)	1.2																LINEARITY ERROR (dB)
		190	301	405	525	652	791	924	1056	1179	1292	1424	1571	1698	1830	1948	2077	
		30	14	-10	-17	-18	-6	-1	3	-1	-15	-11	8	7	12	2	3	
		1.19	0.55	-0.38	-0.65	-0.69	-0.25	-0.06	0.12	-0.05	-0.60	-0.45	0.31	0.28	0.47	0.08	0.14	
18 GHz	INTERCEPT (mV)	1906																Measured Value (mV)
	SLOPE (mV/dB)	24.9																ERROR (mV)
	LIN. ERR. (dB)	1.1																LINEARITY ERROR (dB)
		190	301	405	523	646	778	902	1039	1162	1274	1393	1536	1662	1793	1910	2037	
		27	14	-7	-13	-15	-8	-8	4	2	-9	-15	3	4	11	3	6	
		1.08	0.54	-0.29	-0.54	-0.60	-0.30	-0.31	0.18	0.10	-0.38	-0.60	0.11	0.17	0.45	0.13	0.26	
Avg. Slope: 25.2 mV/dB		1	1	1.1	1	1.2	1.3	1.7	1.3	1.3	1.2	1.4	1.3	1.3	1.3	1.3	1.1	Flatness dB: -1.7 dB





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

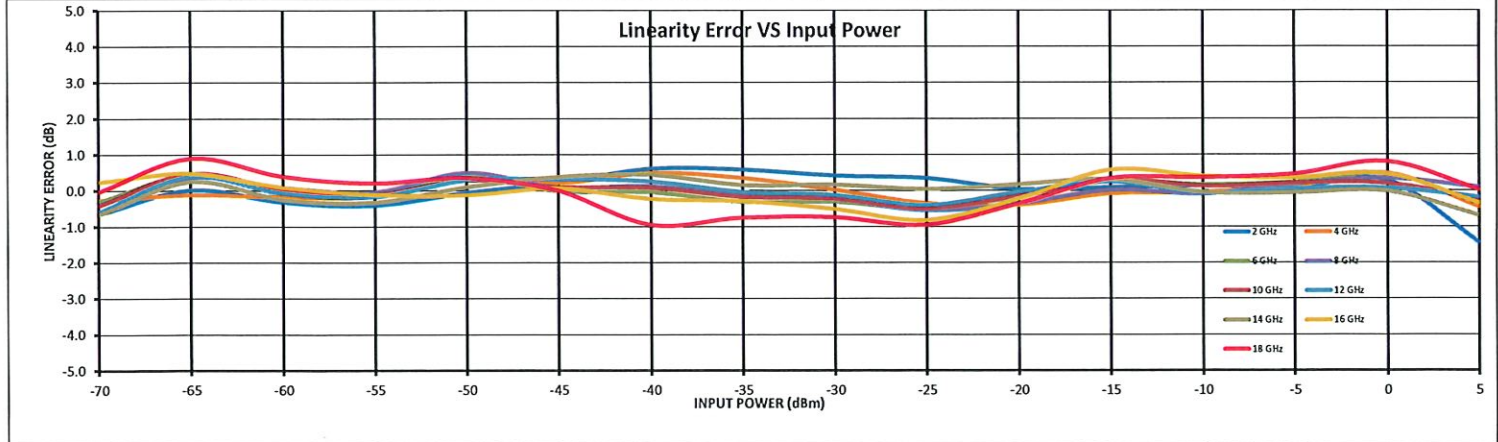
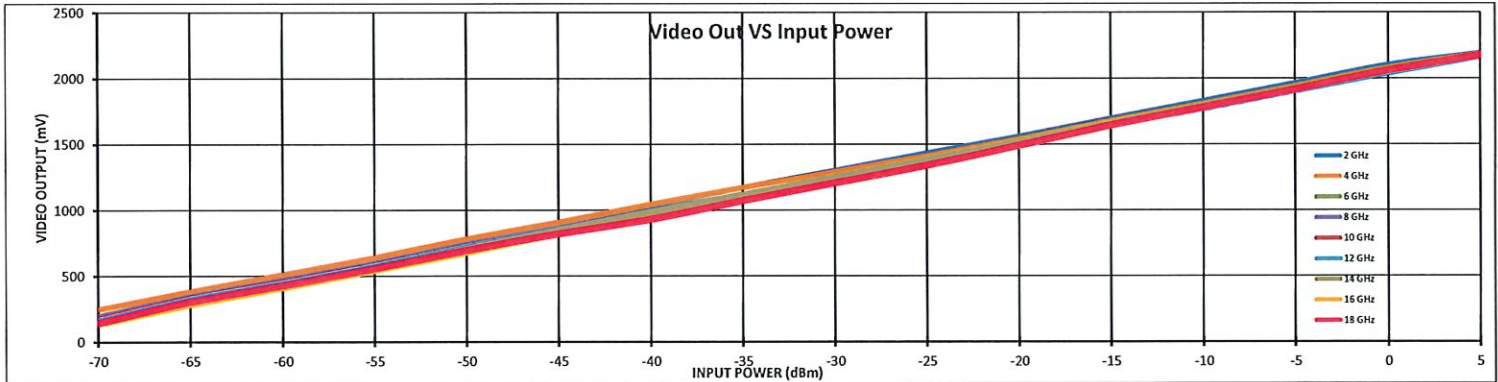
PL38190/2243

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL38190/2243
 Date: 10/25/2022
 Tested By: RCombs
 Test Temp: -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	2096	26.9	1.4	199	351	476	608	752	894	1039	1172	1302	1434	1560	1696	1832	1964	2104	2192	Measured Value (mV)	
				-18	1	-9	-11	-1	6	17	16	11	10	1	2	4	2	8	-39		Error (mV)
				-0.65	0.03	-0.32	-0.41	-0.05	0.23	0.62	0.59	0.42	0.35	0.04	0.09	0.14	0.08	0.29	-1.44		LINEARITY ERROR (dB)
4 GHz	2070	25.9	0.5	248	382	510	640	783	909	1046	1172	1293	1413	1541	1679	1809	1944	2083	2188	Measured Value (mV)	
				-7	-3	-5	-4	10	6	13	9	1	-9	-10	-2	-1	3	13	-12		Error (mV)
				-0.26	-0.11	-0.17	-0.16	0.37	0.22	0.50	0.35	0.02	-0.36	-0.40	-0.09	-0.05	0.13	0.49	-0.46		LINEARITY ERROR (dB)
6 GHz	2059	26.6	0.5	192	345	468	597	742	864	996	1122	1255	1382	1524	1668	1798	1933	2072	2183	Measured Value (mV)	
				-8	12	2	-1	11	0	-1	-8	-8	-13	-5	7	4	6	12	-10		Error (mV)
				-0.31	0.45	0.07	-0.05	0.40	0.00	-0.04	-0.31	-0.31	-0.49	-0.18	0.27	0.17	0.24	0.46	-0.36		LINEARITY ERROR (dB)
8 GHz	2041	26.2	0.6	198	349	473	600	745	866	998	1121	1250	1372	1508	1649	1777	1915	2050	2174	Measured Value (mV)	
				-11	10	2	-1	13	3	3	-4	-6	-14	-10	1	-2	5	9	2		Error (mV)
				-0.41	0.37	0.09	-0.04	0.50	0.10	0.13	-0.14	-0.24	-0.55	-0.36	0.03	-0.09	0.18	0.35	0.09		LINEARITY ERROR (dB)
10 GHz	2043	26.5	0.5	181	337	457	586	729	856	988	1113	1244	1369	1510	1655	1782	1917	2049	2169	Measured Value (mV)	
				-11	13	1	-3	8	3	2	-5	-6	-13	-4	8	3	5	5	-7		Error (mV)
				-0.42	0.48	0.04	-0.11	0.29	0.10	0.08	-0.17	-0.23	-0.50	-0.16	0.32	0.12	0.21	0.20	-0.25		LINEARITY ERROR (dB)
12 GHz	2042	26.7	0.6	159	318	439	570	716	850	982	1107	1238	1364	1507	1649	1774	1910	2044	2171	Measured Value (mV)	
				-16	11	-2	-4	8	9	7	-1	-3	-11	-1	7	-2	1	2	-5		Error (mV)
				-0.59	0.40	-0.07	-0.17	0.30	0.33	0.26	-0.03	-0.12	-0.40	-0.04	0.26	-0.06	0.06	0.08	-0.18		LINEARITY ERROR (dB)
14 GHz	2059	27.1	0.7	141	301	424	557	705	848	985	1113	1249	1382	1521	1660	1787	1922	2059	2176	Measured Value (mV)	
				-18	7	-7	-9	3	11	12	4	5	1	5	8	-1	-2	0	-19		Error (mV)
				-0.67	0.25	-0.25	-0.32	0.10	0.39	0.45	0.16	0.17	0.04	0.17	0.31	-0.04	-0.06	-0.01	-0.69		LINEARITY ERROR (dB)
16 GHz	2053	27.6	0.8	130	274	401	534	671	814	944	1080	1212	1341	1495	1655	1788	1925	2066	2181	Measured Value (mV)	
				6	13	2	-3	-3	2	-6	-8	-14	-23	-6	16	11	10	13	-10		Error (mV)
				0.23	0.48	0.08	-0.11	-0.12	0.07	-0.23	-0.29	-0.51	-0.82	-0.23	0.58	0.40	0.36	0.47	-0.36		LINEARITY ERROR (dB)
18 GHz	2040	27.1	0.955	144	304	426	556	696	822	931	1072	1207	1337	1488	1643	1779	1917	2062	2176	Measured Value (mV)	
				-1	24	10	5	10	0	-26	-20	-20	-26	-10	9	10	12	22	1		Error (mV)
				-0.04	0.90	0.38	0.20	0.35	0.00	-0.95	-0.75	-0.75	-0.96	-0.37	0.33	0.36	0.46	0.81	0.02		LINEARITY ERROR (dB)
Avg. Slope: 26.7 mV/dB				2.2	2	2	2	2.1	1.8	2.1	1.9	1.8	1.8	1.3	1	1.1	1	1.1	0.4	Flatness dB: -2.2 dB	

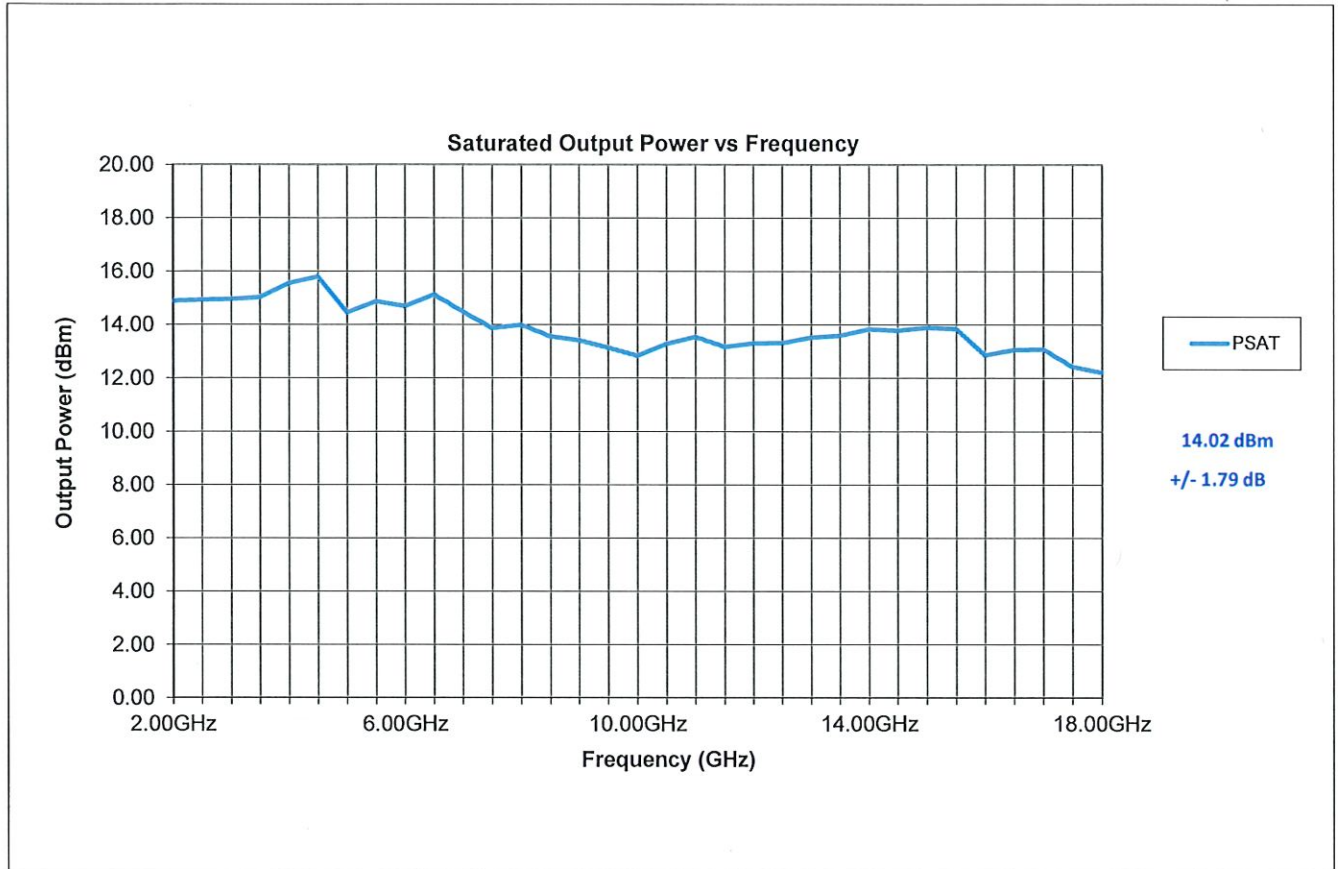




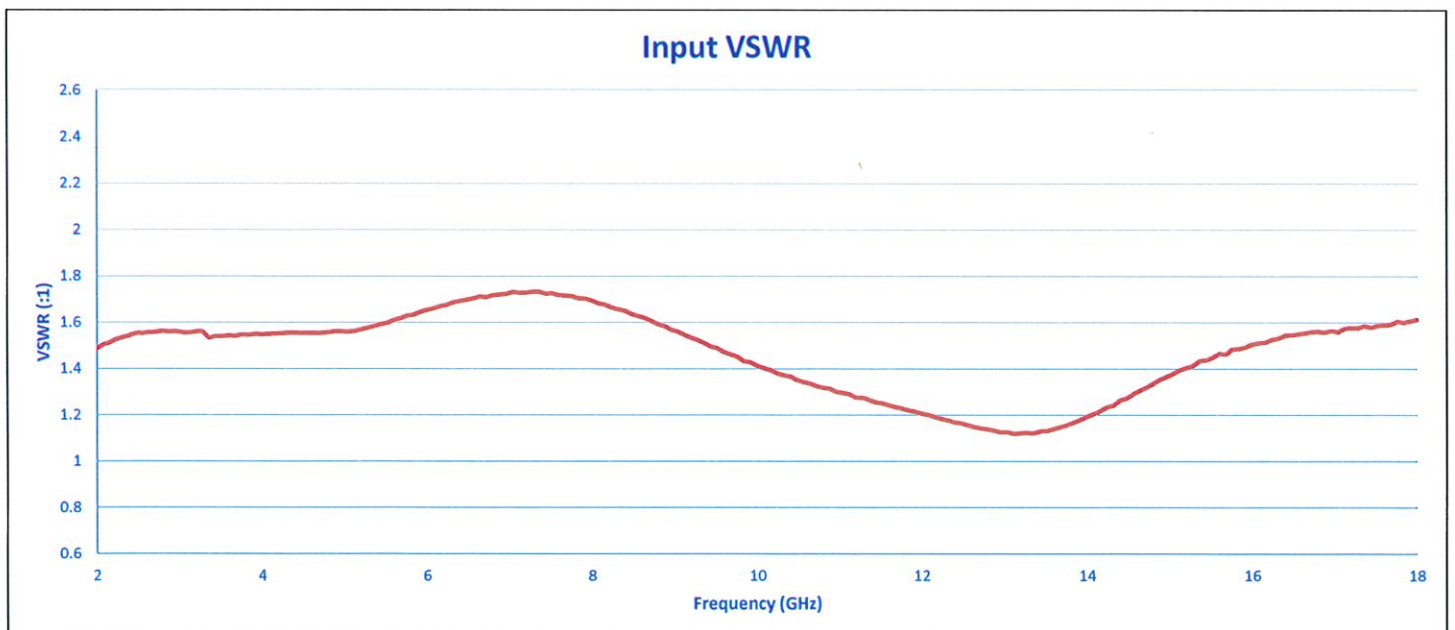
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL38190/2243

PSAT



INPUT VSWR

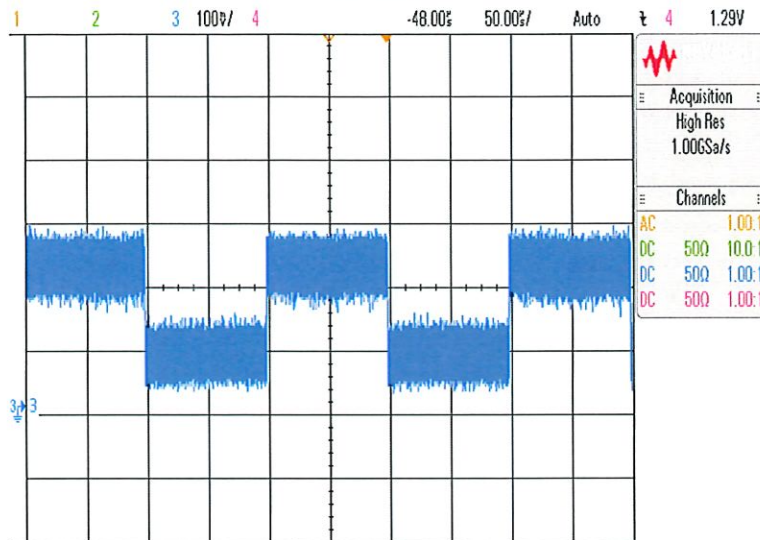




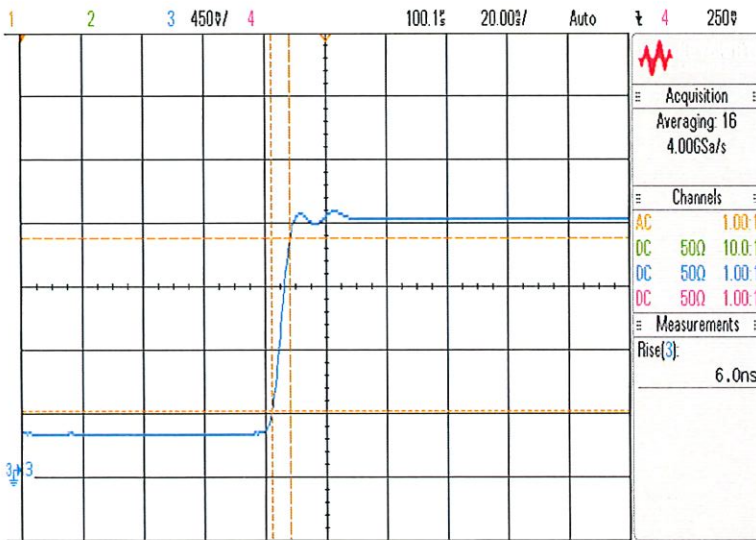
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL38190/2243

TSS



Rise Time



Fall Time

