



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

PL42575/2342

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/30/2023
 Serial No: PL42575/2342 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)	1.7:1 (Input)		
5	Power Input:	+17 dBm CW Maximum	Pass		
6	RF Out:	+13 dBm ±3 dB Typical	13.21 dBm Avg.		
7	Log Slope:	25 mV/dB (±10%) 50Ω	25 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 dB See Plots		
10	Pulse Range:	30 ns to CW	Pass		
11	Rise Time:	10 ns (6 ns Typical)	6.3 ns		
12	Recovery Time:	60 ns Typical	58.5 ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 254 mA -12V @ 96 mA		PMI QA2

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



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

PL42575/2342

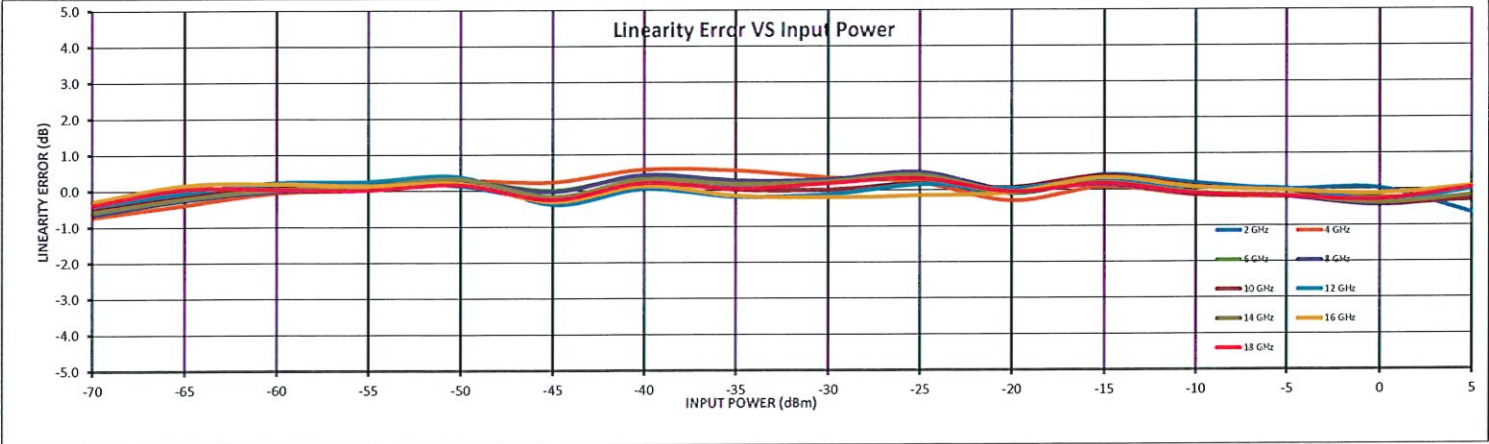
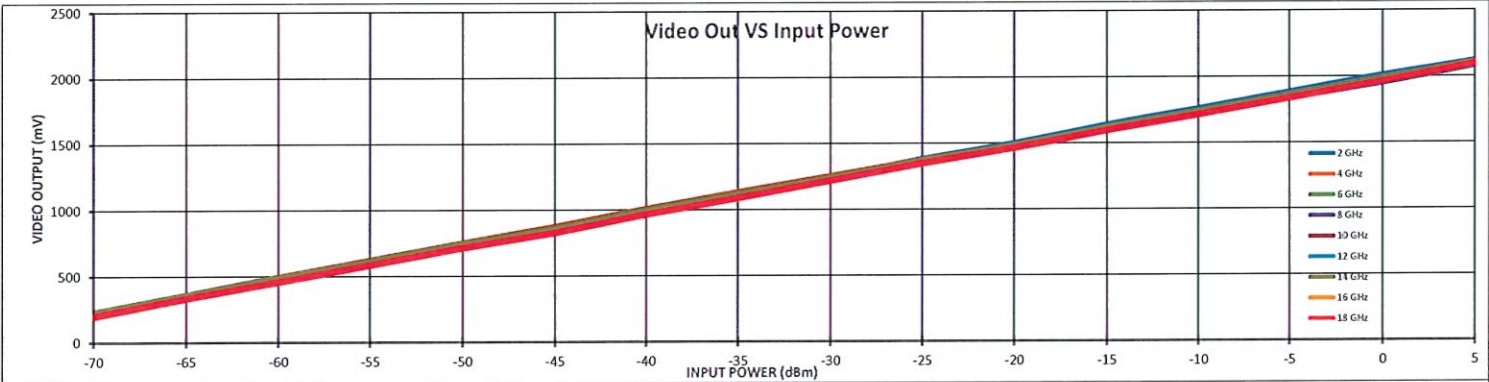


Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42575/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: +25°C

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	224	358	491	621	748	863	999	1125	1249	1381	1501	1640	1761	1884	2011	2120	Measured Value (mV)
	SLOPE (mV/dB)	25.4	-11	-3	3	5	4	-5	4	3	0	5	-2	11	5	0	1	-17	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.43	-0.12	0.12	0.21	0.14	-0.25	0.14	0.11	0.00	0.19	-0.08	0.42	0.18	0.01	0.03	-0.65	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1994	231	364	497	624	754	878	1011	1135	1255	1376	1488	1622	1741	1864	1988	2112	Measured Value (mV)
	SLOPE (mV/dB)	24.9	-18	-10	-1	1	7	6	14	14	9	5	-8	2	-4	-5	-6	-7	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.72	-0.38	-0.05	0.03	0.27	0.24	0.58	0.55	0.35	0.22	-0.30	0.09	-0.15	-0.21	-0.23	-0.28	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1990	227	361	492	618	748	866	1001	1123	1246	1374	1488	1621	1738	1860	1984	2107	Measured Value (mV)
	SLOPE (mV/dB)	25.0	-15	-5	1	1	7	0	10	7	5	8	-2	6	-2	-5	-5	-5	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.62	-0.25	0.03	0.06	0.26	0.01	0.41	0.28	0.23	0.31	-0.10	0.22	-0.08	-0.19	-0.25	-0.31	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1974	219	353	483	608	739	855	991	1111	1236	1366	1477	1605	1723	1845	1963	2093	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-17	-5	0	1	7	-1	11	7	7	13	0	4	-3	-5	-11	-5	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.67	-0.24	0.00	0.02	0.28	-0.03	0.43	0.27	0.30	0.50	-0.01	0.15	-0.13	-0.20	-0.44	-0.23	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1972	215	350	479	605	734	845	981	1101	1225	1354	1476	1608	1725	1847	1963	2090	Measured Value (mV)
	SLOPE (mV/dB)	24.9	-13	-3	2	3	8	-5	6	0	0	4	2	10	2	-1	-10	-7	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.53	-0.10	0.08	0.13	0.33	-0.19	0.24	0.02	0.02	0.17	0.06	0.39	0.08	-0.03	-0.39	-0.28	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1964	224	357	487	612	738	842	977	1095	1220	1350	1471	1600	1718	1841	1955	2087	Measured Value (mV)
	SLOPE (mV/dB)	24.7	-10	-1	6	6	10	-10	1	-4	-3	4	1	7	1	1	-8	0	ERROR (mV)
	LIN. ERR. (dB)	0.4	-0.41	-0.05	0.24	0.26	0.39	-0.39	0.04	-0.17	-0.12	0.16	0.04	0.27	0.05	0.02	-0.32	-0.01	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1971	221	354	484	610	739	851	987	1108	1233	1362	1474	1604	1721	1843	1962	2091	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-15	-5	1	3	8	-4	8	4	6	10	-1	5	-2	-4	-9	-4	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.59	-0.21	0.04	0.13	0.32	-0.17	0.31	0.17	0.24	0.42	-0.05	0.19	-0.09	-0.17	-0.38	-0.16	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1972	204	341	468	592	719	832	969	1088	1212	1339	1467	1603	1722	1845	1969	2100	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-7	4	5	3	5	-8	3	-4	-5	-4	-2	9	2	-1	-3	2	ERROR (mV)
	LIN. ERR. (dB)	0.3	-0.29	0.16	0.20	0.14	0.20	-0.31	0.13	-0.15	-0.20	-0.15	-0.08	0.34	0.06	-0.03	-0.12	0.08	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1969	197	334	459	585	714	830	967	1089	1218	1348	1464	1595	1714	1838	1962	2096	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-10	2	1	1	4	-6	5	1	5	8	-1	4	-3	-5	-7	1	ERROR (mV)
	LIN. ERR. (dB)	0.4	-0.39	0.06	0.04	0.02	0.16	-0.25	0.21	0.04	0.19	0.33	-0.05	0.17	-0.11	-0.20	-0.28	0.05	LINEARITY ERROR (dB)

Avg. Slope: 25 mV/dB 0.7 0.6 0.8 0.8 0.8 1 0.9 1 0.9 0.8 0.7 0.9 0.9 0.9 1.1 0.7 Flatness dB: ±1.1 dB





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

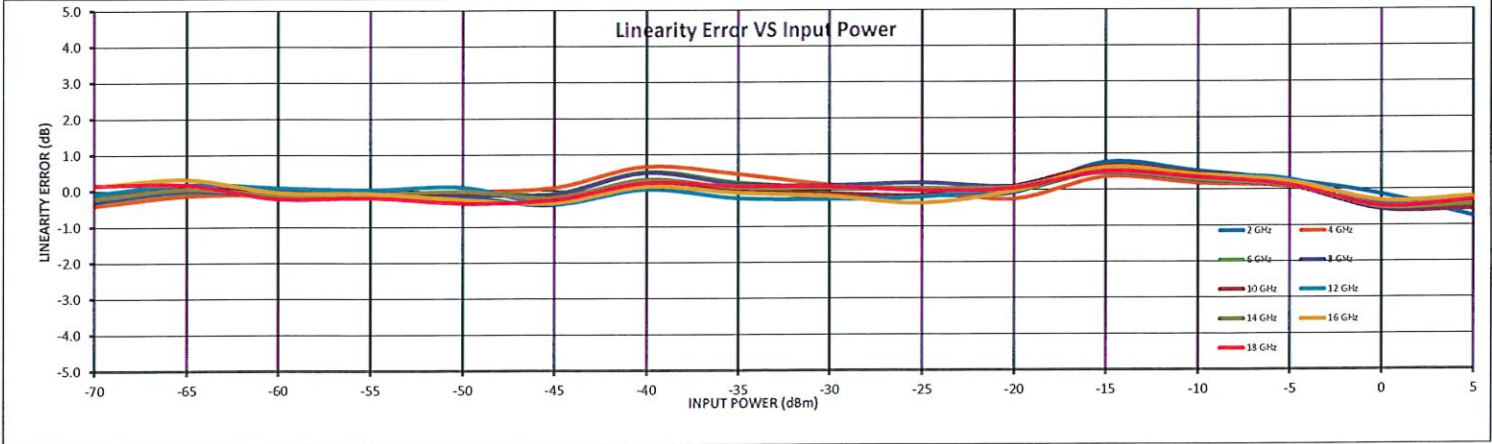
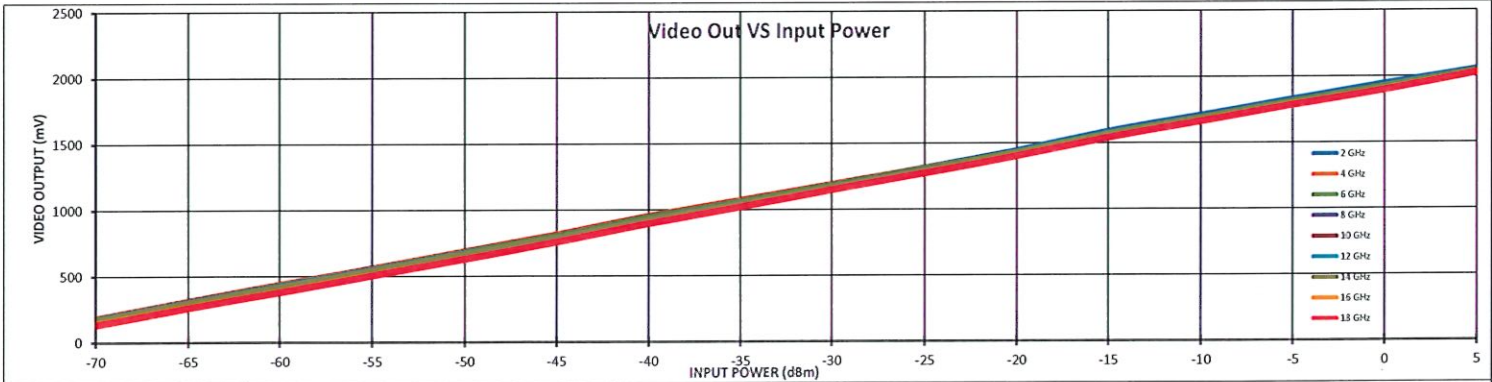
PL42575/2342



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42575/2342
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	1951	25.2	0.8	186	316	441	565	688	807	948	1070	1190	1317	1445	1592	1712	1832	1948	2058	Measured Value (mV)	
				-2	3	1	0	-4	-10	5	1	-5	-4	-2	19	13	6	-3	-19		ERROR (mV)
				-0.06	0.11	0.06	0.00	-0.15	-0.39	0.20	0.03	-0.21	-0.15	-0.08	0.76	0.51	0.25	-0.14	-0.75		LINEARITY ERROR (dB)
4 GHz	1936	24.9	0.7	186	317	442	564	692	820	958	1077	1194	1315	1433	1572	1692	1814	1927	2048	Measured Value (mV)	
				-10	-3	-3	-5	-1	2	17	11	4	0	-6	9	4	2	-9	-12		ERROR (mV)
				-0.41	-0.13	-0.11	-0.19	-0.03	0.08	0.67	0.45	0.15	0.00	-0.25	0.36	0.18	0.05	-0.38	-0.47		LINEARITY ERROR (dB)
6 GHz	1934	25.0	0.5	178	310	433	556	684	808	948	1065	1186	1310	1434	1572	1690	1811	1924	2045	Measured Value (mV)	
				-7	-1	-3	-5	-1	-2	13	5	2	1	-1	13	6	2	-10	-14		ERROR (mV)
				-0.29	-0.02	-0.10	-0.18	-0.05	-0.08	0.51	0.22	0.07	0.04	-0.03	0.51	0.25	0.10	-0.39	-0.55		LINEARITY ERROR (dB)
8 GHz	1920	25.0	0.6	166	298	419	543	670	795	934	1051	1175	1301	1423	1557	1677	1798	1906	2031	Measured Value (mV)	
				-7	0	-1	-2	-3	-3	12	4	3	5	3	12	7	2	-14	-11		ERROR (mV)
				-0.30	0.01	-0.16	-0.20	-0.10	-0.10	0.49	0.18	0.13	0.21	0.10	0.47	0.26	0.10	-0.56	-0.54		LINEARITY ERROR (dB)
10 GHz	1916	25.0	0.7	162	295	414	539	666	787	923	1041	1164	1287	1419	1557	1677	1797	1903	2027	Measured Value (mV)	
				-4	3	-3	-2	-1	-5	7	0	-2	-4	3	16	11	6	-13	-14		ERROR (mV)
				-0.18	0.13	-0.10	-0.10	-0.04	-0.18	0.28	0.01	-0.08	-0.15	0.11	0.66	0.45	0.26	-0.51	-0.55		LINEARITY ERROR (dB)
12 GHz	1908	24.8	0.5	173	304	425	547	673	785	919	1036	1159	1285	1415	1550	1671	1791	1898	2026	Measured Value (mV)	
				-2	5	2	1	2	-9	1	-5	-6	-5	2	13	10	7	-10	-5		ERROR (mV)
				-0.08	0.19	0.09	0.03	0.10	-0.36	0.03	-0.22	-0.25	-0.19	0.07	0.54	0.41	0.28	-0.41	-0.23		LINEARITY ERROR (dB)
14 GHz	1914	24.9	0.5	165	296	416	541	668	788	925	1044	1169	1293	1418	1553	1672	1792	1902	2029	Measured Value (mV)	
				-5	1	-3	-3	0	-5	8	2	2	1	2	12	7	3	-12	-10		ERROR (mV)
				-0.21	0.06	-0.12	-0.10	-0.01	-0.19	0.31	0.07	0.08	0.06	0.08	0.50	0.28	0.10	-0.49	-0.41		LINEARITY ERROR (dB)
16 GHz	1912	25.3	0.6	145	276	394	519	641	766	903	1025	1149	1271	1406	1549	1670	1791	1905	2034	Measured Value (mV)	
				3	8	-1	-2	-6	-8	3	-2	-4	-9	-1	16	10	6	-8	-5		ERROR (mV)
				0.14	0.32	-0.04	-0.08	-0.25	-0.33	0.11	-0.07	-0.16	-0.36	-0.03	0.62	0.41	0.22	-0.31	-0.20		LINEARITY ERROR (dB)
18 GHz	1908	25.4	0.5	133	260	377	505	628	758	897	1021	1148	1272	1401	1540	1663	1784	1896	2027	Measured Value (mV)	
				-4	4	-5	-5	-9	-7	5	3	3	0	1	13	9	3	-12	-5		ERROR (mV)
				0.16	0.18	-0.22	-0.19	-0.34	-0.26	0.21	0.11	0.11	-0.01	0.04	0.51	0.34	0.12	-0.46	-0.30		LINEARITY ERROR (dB)
Avg. Slope: 25 mV/dB				1.1	1.1	1.3	1.2	1.3	1.2	1.2	1.1	0.9	0.9	0.9	1.1	1	0.9	1	0.6	Flatness dB: ±1.3 dB	





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

PL42575/2342



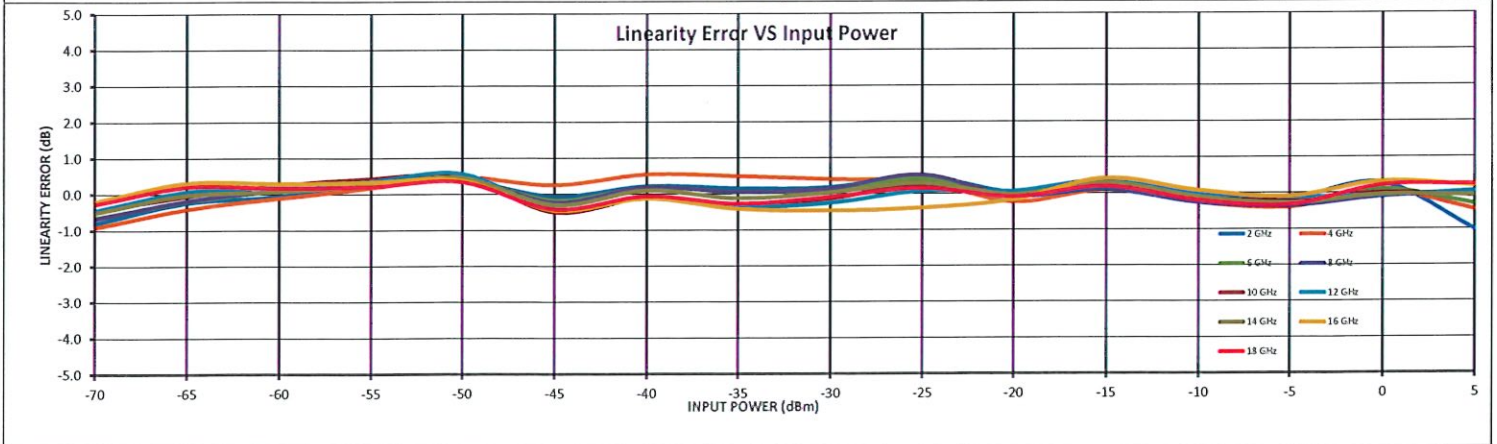
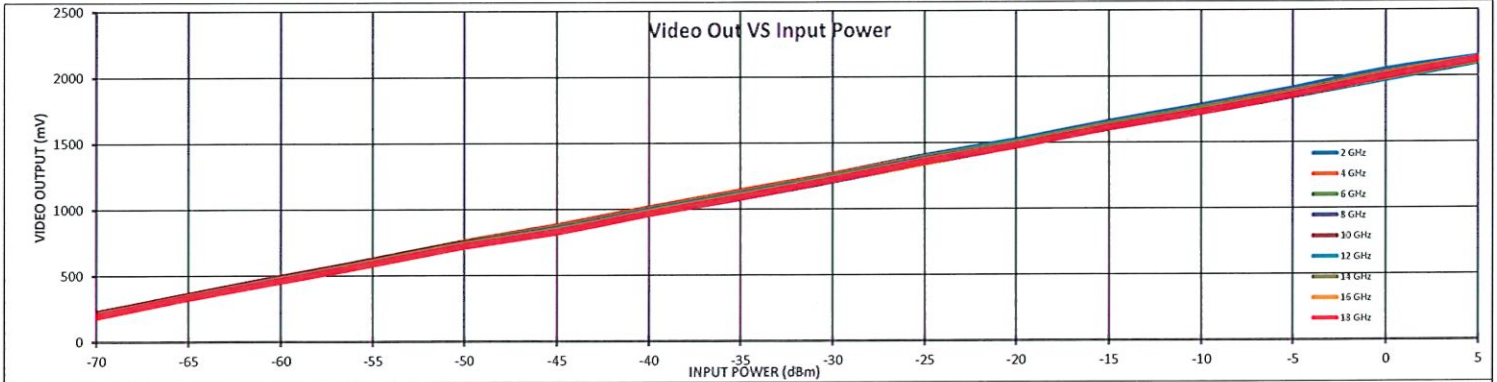
Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42575/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: -40°C

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	2039	26.0	1.0	195	341	475	615	747	866	1003	1132	1263	1400	1519	1656	1778	1904	2046	2142	Measured Value (mV)
				-21	-5	-2	8	10	-2	6	4	5	12	1	8	0	-4	7	-27	ERROR (mV)
				-0.81	-0.23	-0.06	0.32	0.39	-0.07	0.22	0.15	0.18	0.48	0.04	0.30	-0.01	-0.16	0.28	-1.02	LINEARITY ERROR (dB)
4 GHz	2018	25.5	0.9	211	351	486	621	756	878	1013	1139	1264	1389	1503	1638	1756	1881	2020	2134	Measured Value (mV)
				-23	-10	-3	4	12	6	14	13	10	8	-8	2	-7	-10	2	-12	ERROR (mV)
				-0.92	-0.41	-0.11	0.17	0.46	0.25	0.55	0.50	0.40	0.32	-0.23	0.09	-0.27	-0.40	0.06	-0.47	LINEARITY ERROR (dB)
6 GHz	2010	25.4	0.7	216	355	489	621	752	863	999	1122	1251	1385	1501	1635	1752	1875	2013	2129	Measured Value (mV)
				-17	-5	3	7	11	-5	5	1	3	10	-1	6	-4	-9	2	-8	ERROR (mV)
				-0.66	-0.20	0.10	0.29	0.45	-0.18	0.19	0.04	0.11	0.41	-0.05	0.22	-0.17	-0.34	0.10	-0.30	LINEARITY ERROR (dB)
8 GHz	1992	25.1	0.7	215	353	486	616	747	854	991	1113	1241	1376	1487	1617	1734	1857	1989	2117	Measured Value (mV)
				-17	-5	3	7	12	-5	5	1	4	13	-2	3	-7	-9	-2	0	ERROR (mV)
				-0.67	-0.18	0.12	0.29	0.47	-0.24	0.20	0.05	0.15	0.52	-0.07	0.10	-0.26	-0.36	-0.10	-0.01	LINEARITY ERROR (dB)
10 GHz	1992	25.1	0.5	223	358	492	622	748	849	985	1106	1235	1371	1490	1624	1740	1862	1992	2116	Measured Value (mV)
				-11	-1	6	11	12	-13	-2	-7	-3	7	0	9	-1	-4	0	-2	ERROR (mV)
				-0.45	-0.05	0.26	0.43	0.48	-0.50	-0.09	-0.27	-0.13	0.26	0.01	0.34	-0.03	-0.17	0.00	-0.09	LINEARITY ERROR (dB)
12 GHz	1982	25.3	0.6	200	340	469	600	732	833	968	1088	1217	1351	1478	1611	1729	1852	1980	2109	Measured Value (mV)
				-11	2	5	9	14	-10	-2	-9	-6	2	2	9	0	-3	-2	1	ERROR (mV)
				-0.45	0.08	0.21	0.36	0.57	-0.40	-0.09	-0.35	-0.25	0.07	0.07	0.36	-0.01	-0.12	-0.08	0.04	LINEARITY ERROR (dB)
14 GHz	1992	25.4	0.5	199	339	468	600	732	840	977	1099	1230	1364	1482	1618	1735	1857	1990	2117	Measured Value (mV)
				-13	0	2	6	12	-8	3	-3	1	7	-1	8	-3	-7	-1	-2	ERROR (mV)
				-0.62	-0.02	0.07	0.25	0.46	-0.30	0.10	-0.12	0.03	0.29	-0.03	0.30	-0.10	-0.28	-0.05	-0.07	LINEARITY ERROR (dB)
16 GHz	1992	25.6	0.5	192	334	461	590	720	827	963	1084	1211	1341	1475	1618	1737	1861	2000	2125	Measured Value (mV)
				-5	8	8	8	10	-11	-3	-11	-12	-10	-4	11	2	-3	8	5	ERROR (mV)
				-0.20	0.32	0.30	0.33	0.38	-0.45	-0.12	-0.41	-0.47	-0.40	-0.17	0.42	0.07	-0.10	0.32	0.19	LINEARITY ERROR (dB)
18 GHz	1993	25.6	0.42	193	334	461	590	721	830	967	1090	1222	1357	1478	1614	1732	1856	1998	2127	Measured Value (mV)
				-7	5	4	5	9	-11	-2	-7	-2	4	-2	5	-5	-8	5	6	ERROR (mV)
				-0.27	0.21	0.17	0.21	0.34	-0.42	-0.06	-0.27	-0.09	0.16	-0.09	0.20	-0.20	-0.33	0.21	0.24	LINEARITY ERROR (dB)

Avg. Slope: 25.5 mV/dB

0.6 0.5 0.6 0.6 0.7 1 1 1.1 1 1.2 0.9 0.9 1 1 1.3 0.6 Flatness dB: ±1.3 dB

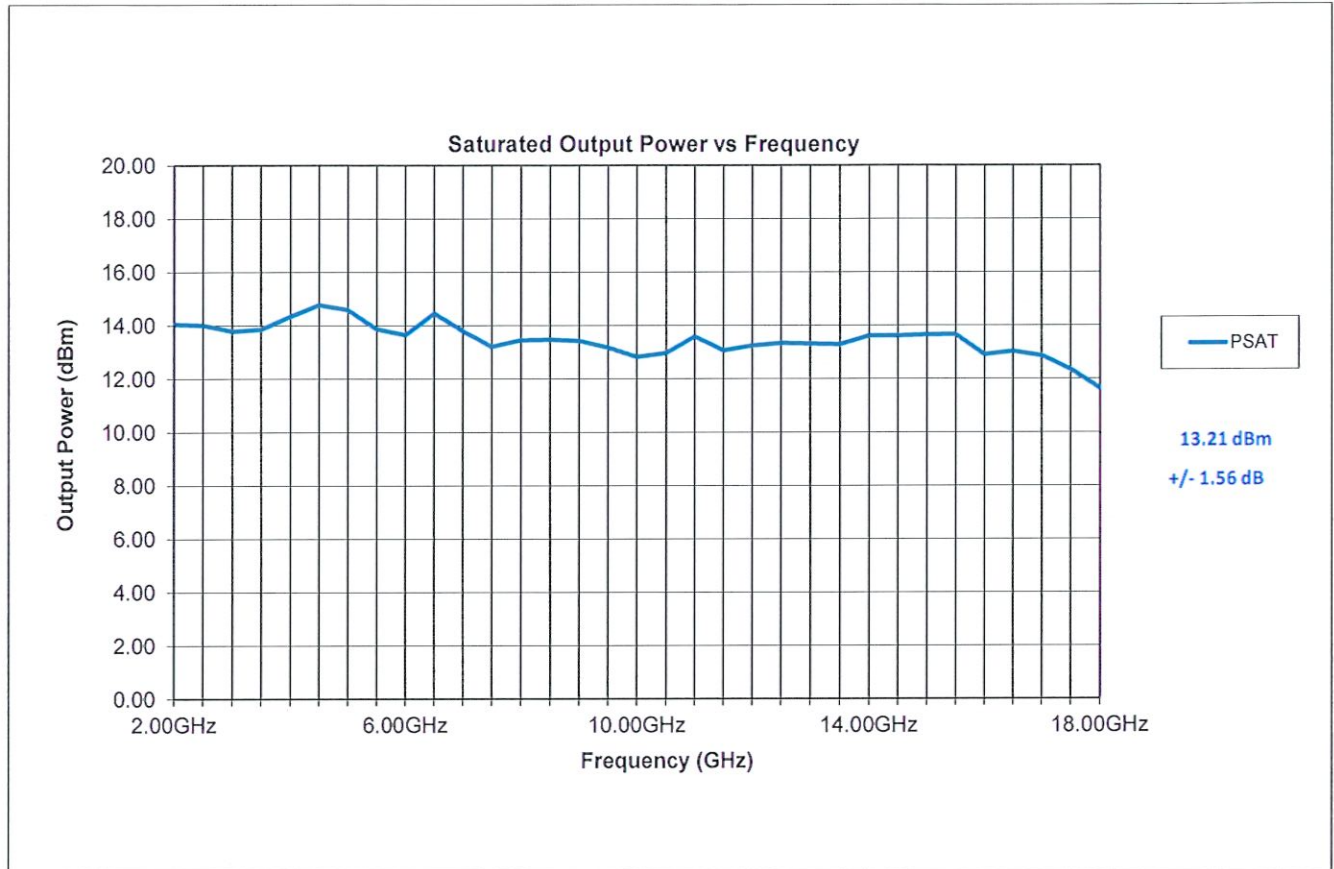




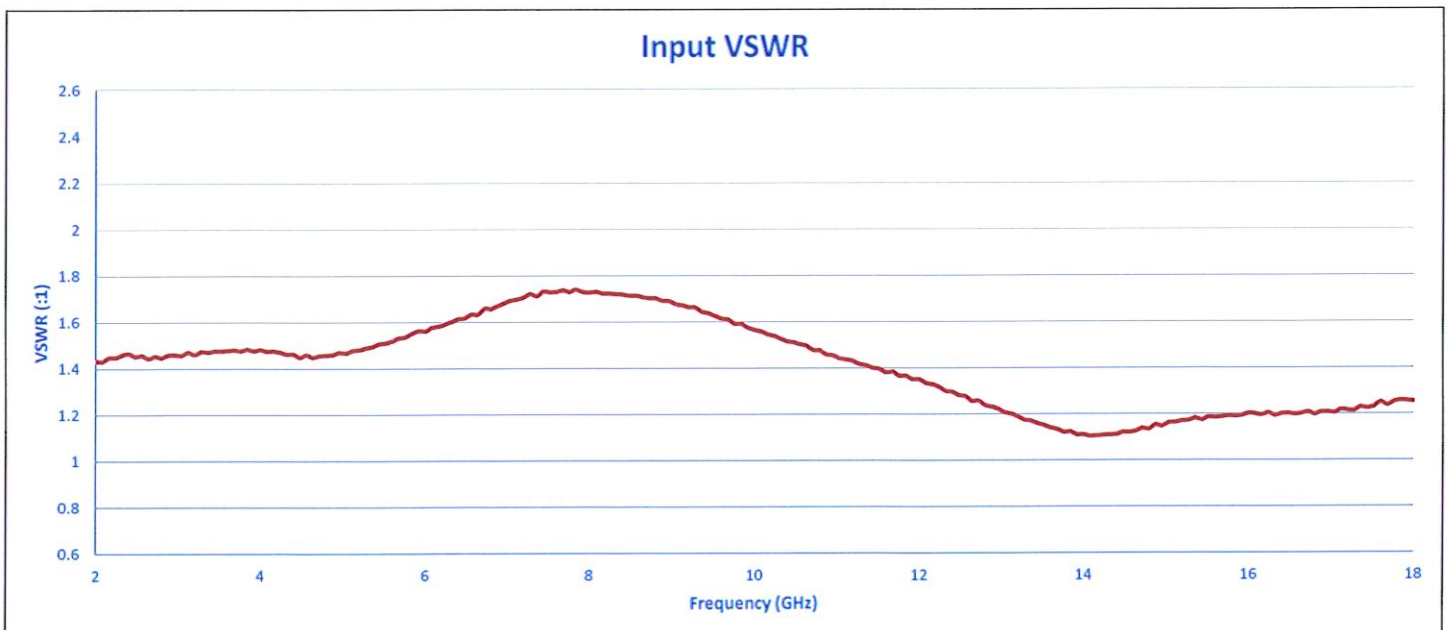
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42575/2342

PSAT



INPUT VSWR

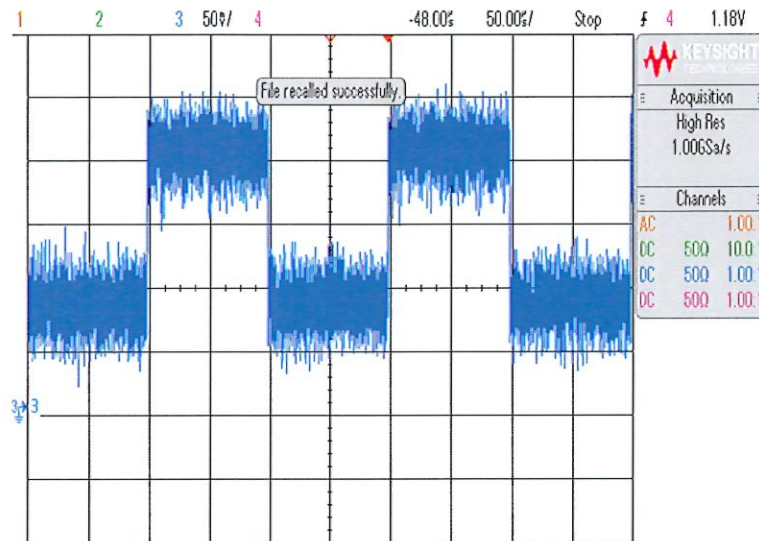




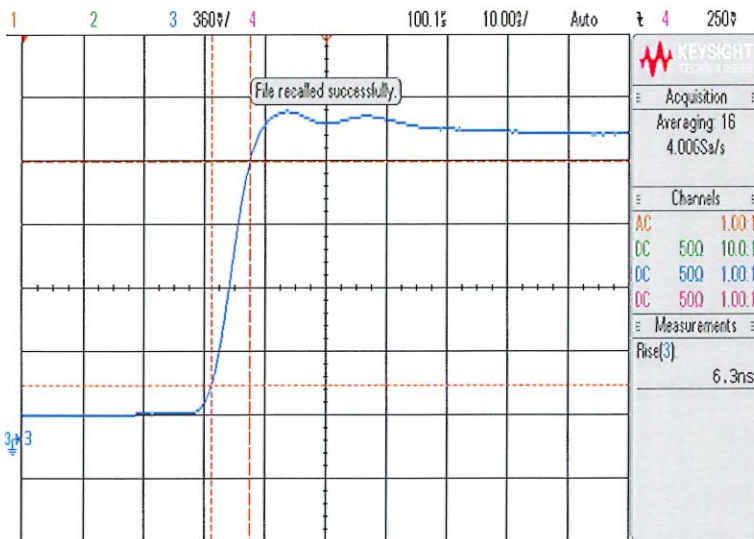
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42575/2342

TSS



Rise Time



Fall Time

