



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

PL42570/2342

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/30/2023
 Serial No: PL42570/2342 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	±0.9 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	25.4 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)	±1.1 dB See Plots		
10	Pulse Range:	30 ns to CW	Pass		
11	Rise Time:	10 ns (6 ns Typical)	6.6 ns		
12	Recovery Time:	60 ns Typical	53.5ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 269 mA -12V @ 100 mA		PMI QA2

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



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

PL42570/2342

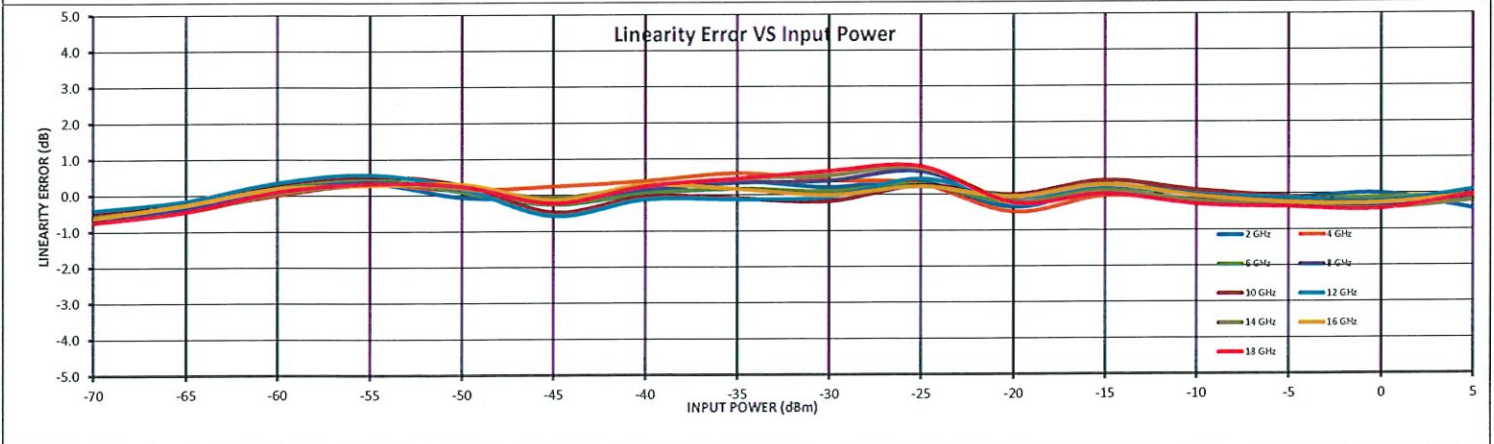
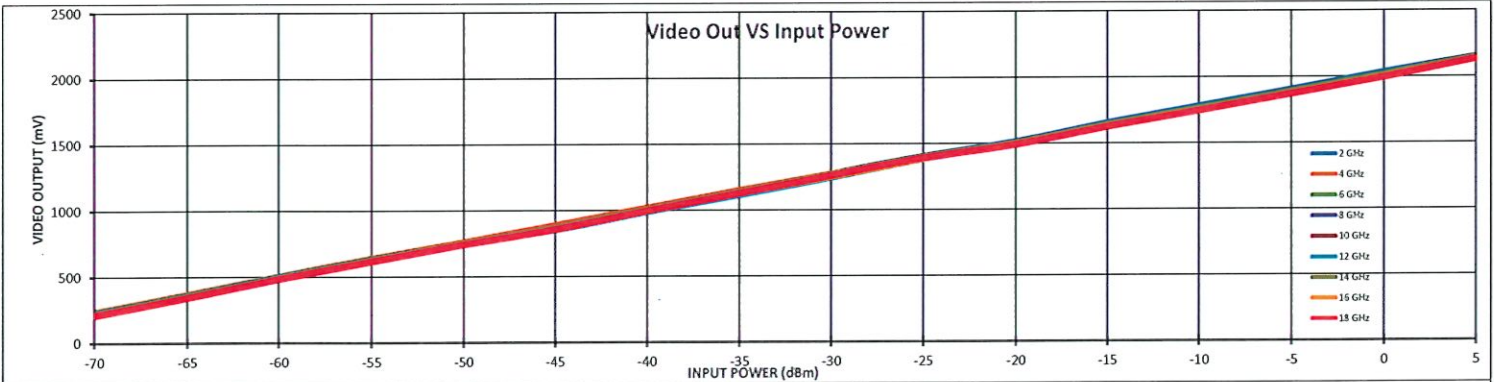


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL42570/2342
 Date: 10/30/2023
 Tested By: RCombs
 Test Temp: +25°C

Log Transfer Over Frequency +25°C

Frequency	INTERCEPT (mV)	2039	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2039	238	373	508	642	760	887	1019	1154	1278	1409	1519	1660	1785	1908	2039	2156	Measured Value (mV)
	SLOPE (mV/dB)	25.5	-13	-5	2	9	-1	-2	3	10	5	9	-9	4	1	-3	0	-11	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.49	-0.22	0.10	0.34	-0.06	-0.06	0.10	0.37	0.21	0.36	-0.36	0.17	0.06	-0.10	0.00	-0.42	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2024	239	373	510	644	766	894	1024	1156	1277	1400	1507	1644	1766	1891	2019	2149	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-18	-10	0	8	4	6	10	15	10	7	-13	-1	-6	-6	-5	-1	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.73	-0.42	0.02	0.31	0.14	0.25	0.38	0.60	0.40	0.29	-0.50	-0.05	-0.22	-0.26	-0.19	-0.04	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2020	235	369	507	639	758	874	1008	1138	1263	1384	1508	1645	1766	1890	2018	2146	Measured Value (mV)
	SLOPE (mV/dB)	25.3	-12	-5	6	12	2	-7	1	4	2	7	-5	4	-1	-4	-3	-2	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.48	-0.20	0.23	0.46	0.09	-0.26	0.04	0.18	0.09	0.27	-0.23	0.17	-0.04	-0.15	-0.12	-0.06	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	2010	226	360	499	631	752	870	1005	1135	1263	1395	1500	1633	1753	1878	2001	2134	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-17	-9	4	9	4	-4	4	9	10	15	-5	2	-4	-5	-9	-2	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.67	-0.36	0.14	0.37	0.17	-0.17	0.17	0.34	0.39	0.65	-0.21	0.06	-0.17	-0.26	-0.36	-0.08	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2013	213	349	489	622	743	851	990	1117	1242	1381	1502	1639	1760	1883	2006	2138	Measured Value (mV)
	SLOPE (mV/dB)	25.5	-12	-4	8	14	7	-12	-1	-2	-5	6	0	10	3	-2	-6	-2	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.47	-0.16	0.32	0.53	0.29	-0.48	-0.04	-0.09	-0.19	0.25	-0.01	0.37	0.10	-0.09	-0.25	-0.07	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2008	226	359	499	631	747	855	993	1119	1247	1386	1500	1634	1754	1878	2002	2137	Measured Value (mV)
	SLOPE (mV/dB)	25.3	-10	-4	9	15	5	-15	-3	-3	-2	11	-2	6	-1	-3	-6	2	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.40	-0.14	0.36	0.58	0.19	-0.58	-0.12	-0.12	-0.07	0.44	-0.08	0.22	-0.02	-0.12	-0.23	0.10	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	2015	220	354	494	627	751	871	1006	1138	1267	1399	1502	1636	1756	1879	2004	2136	Measured Value (mV)
	SLOPE (mV/dB)	25.4	-19	-12	1	7	5	-2	6	11	13	19	-5	2	-5	-9	-11	-5	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.74	-0.45	0.05	0.29	0.20	-0.08	0.25	0.45	0.53	0.75	-0.19	0.08	-0.19	-0.33	-0.42	-0.20	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	2015	197	335	475	606	735	853	992	1118	1242	1377	1498	1636	1756	1880	2008	2143	Measured Value (mV)
	SLOPE (mV/dB)	25.8	-16	-7	5	7	8	-4	7	4	0	6	-2	7	-1	-6	-7	-1	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.61	-0.26	0.20	0.28	0.30	-0.14	0.28	0.16	-0.01	0.21	-0.07	0.26	-0.06	-0.25	-0.27	-0.05	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	2006	209	344	485	617	742	857	996	1128	1261	1391	1492	1625	1745	1870	1995	2132	Measured Value (mV)
	SLOPE (mV/dB)	25.4	-19	-11	3	8	6	-6	6	11	17	20	-6	0	-7	-10	-11	-1	ERROR (mV)
	LIN. ERR. (dB)	0.8	-0.74	-0.45	0.11	0.32	0.25	-0.23	0.25	0.44	0.65	0.77	-0.24	0.00	-0.29	-0.37	-0.43	-0.04	LINEARITY ERROR (dB)

Avg. Slope: 25.4 mV/dB 0.8 0.8 0.7 0.7 0.6 0.8 0.7 0.8 0.7 0.6 0.5 0.7 0.8 0.8 0.9 0.5 Flatness dB: ±0.9 dB





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

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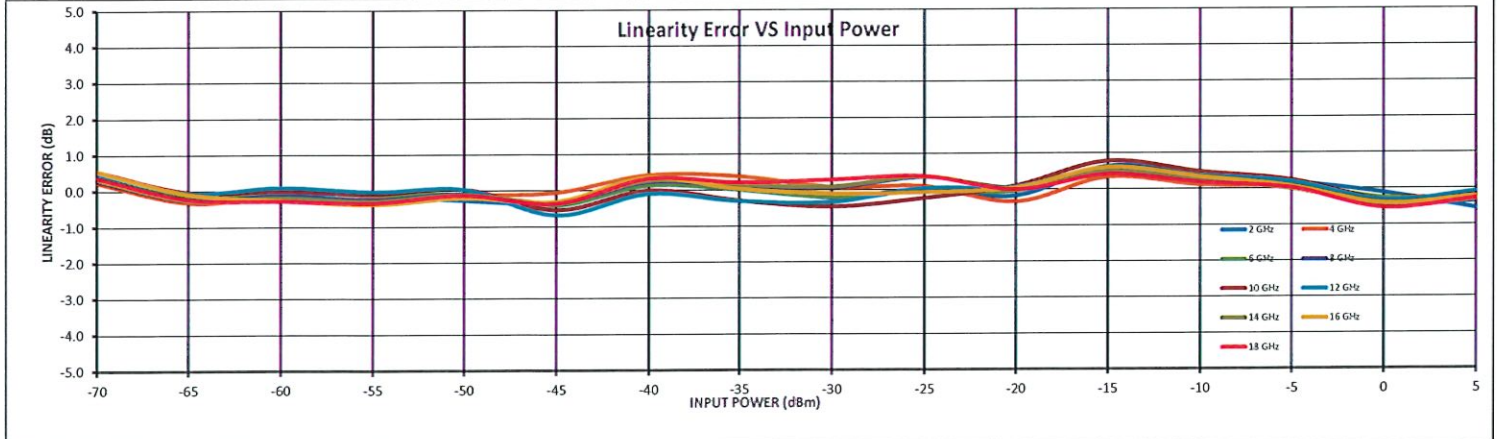
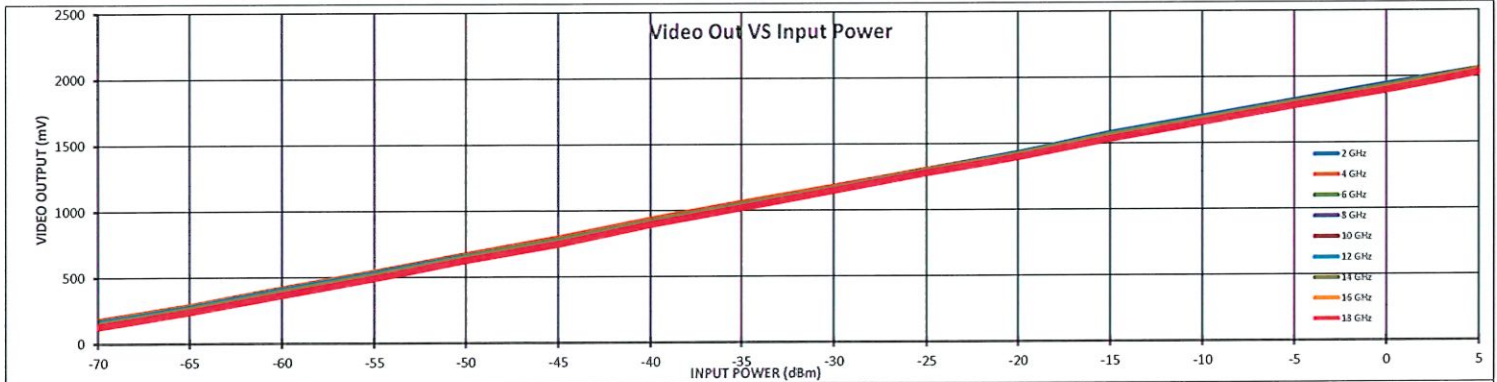
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 Serial No: PL42570/2342
 Date: 10/30/2023
 Tested By: RCombs
 Test Temp: +85°C

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	1945	25.5	0.6	169	284	414	559	683	789	929	1056	1174	1308	1430	1578	1701	1822	1942	2058	Measured Value (mV)	
				9	-3	-1	-3	-7	-9	4	4	-6	0	-4	16	11	5	-3	-14		ERROR (mV)
				0.36	-0.12	-0.03	-0.12	-0.26	-0.34	0.15	0.15	-0.22	0.02	-0.17	0.63	0.42	0.19	-0.11	-0.55		LINEARITY ERROR (dB)
4 GHz	1933	25.2	0.4	174	286	417	541	669	797	936	1060	1179	1305	1420	1564	1684	1809	1927	2054	Measured Value (mV)	
				6	-8	-4	-6	-3	-1	11	10	2	2	-9	8	3	1	-7	-5		ERROR (mV)
				0.24	-0.32	-0.16	-0.23	-0.13	-0.05	0.43	0.38	0.07	0.09	-0.34	0.33	0.11	0.05	-0.27	-0.20		LINEARITY ERROR (dB)
6 GHz	1931	25.4	0.6	165	279	410	533	661	779	920	1044	1165	1296	1423	1565	1685	1807	1924	2051	Measured Value (mV)	
				10	-4	0	-3	-2	-10	4	0	-5	-1	-1	15	7	3	-7	-6		ERROR (mV)
				0.38	-0.15	0.01	-0.12	-0.09	-0.41	0.14	0.01	-0.20	-0.02	-0.04	0.58	0.29	0.14	-0.26	-0.25		LINEARITY ERROR (dB)
8 GHz	1922	25.4	0.5	151	264	394	518	649	770	911	1036	1161	1296	1415	1553	1674	1797	1910	2040	Measured Value (mV)	
				8	-7	-3	-6	-2	-9	6	3	2	9	1	12	6	2	-12	-9		ERROR (mV)
				0.30	-0.26	-0.12	-0.25	-0.08	-0.34	0.23	0.11	0.07	0.35	0.04	0.47	0.24	0.06	-0.46	-0.36		LINEARITY ERROR (dB)
10 GHz	1922	25.6	0.8	141	254	383	509	640	754	896	1017	1140	1275	1411	1557	1677	1799	1913	2045	Measured Value (mV)	
				14	-1	0	-2	1	-14	0	-8	-12	-5	3	20	12	6	-8	-5		ERROR (mV)
				0.55	-0.04	0.01	-0.09	0.04	-0.54	0.00	-0.29	-0.47	-0.23	0.10	0.78	0.47	0.23	-0.32	-0.20		LINEARITY ERROR (dB)
12 GHz	1917	25.4	0.7	154	267	398	521	650	758	900	1022	1148	1284	1412	1551	1673	1795	1909	2042	Measured Value (mV)	
				13	-1	3	-1	1	-17	-2	-8	-8	1	2	15	9	5	-8	-2		ERROR (mV)
				0.51	-0.05	0.10	-0.03	0.04	-0.68	-0.09	-0.30	-0.33	0.04	0.07	0.58	0.37	0.19	-0.33	-0.09		LINEARITY ERROR (dB)
14 GHz	1923	25.5	0.5	145	257	387	512	644	766	909	1034	1160	1294	1413	1553	1674	1796	1911	2043	Measured Value (mV)	
				9	-5	-5	-7	-3	-8	7	4	2	9	1	13	6	0	-12	-8		ERROR (mV)
				0.34	-0.25	-0.18	-0.29	-0.10	-0.33	0.27	0.15	0.09	0.36	0.03	0.49	0.22	0.00	-0.48	-0.31		LINEARITY ERROR (dB)
16 GHz	1921	25.9	0.6	123	236	361	487	622	748	894	1016	1142	1272	1404	1548	1671	1793	1910	2044	Measured Value (mV)	
				14	-2	-7	-10	-5	-8	9	1	-3	-2	1	16	9	2	-11	-6		ERROR (mV)
				0.56	-0.08	-0.25	-0.38	-0.19	-0.30	0.35	0.04	-0.10	-0.07	0.05	0.61	0.34	0.07	-0.41	-0.22		LINEARITY ERROR (dB)
18 GHz	1911	25.6	0.5	126	239	366	493	626	748	894	1019	1149	1280	1398	1537	1659	1783	1897	2032	Measured Value (mV)	
				9	-6	-7	-9	-3	-9	8	6	7	10	0	11	5	1	-14	-7		ERROR (mV)
				0.37	-0.23	-0.27	-0.34	-0.13	-0.37	0.32	0.21	0.28	0.37	0.00	0.41	0.18	0.02	-0.54	-0.28		LINEARITY ERROR (dB)

Avg. Slope: 25.5 mV/dB

1 1 1.1 1 0.9 1 0.8 0.9 0.8 0.7 0.6 0.8 0.8 0.8 0.9 0.5 Flatness dB: ±1.1 dB





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

PL42570/2342

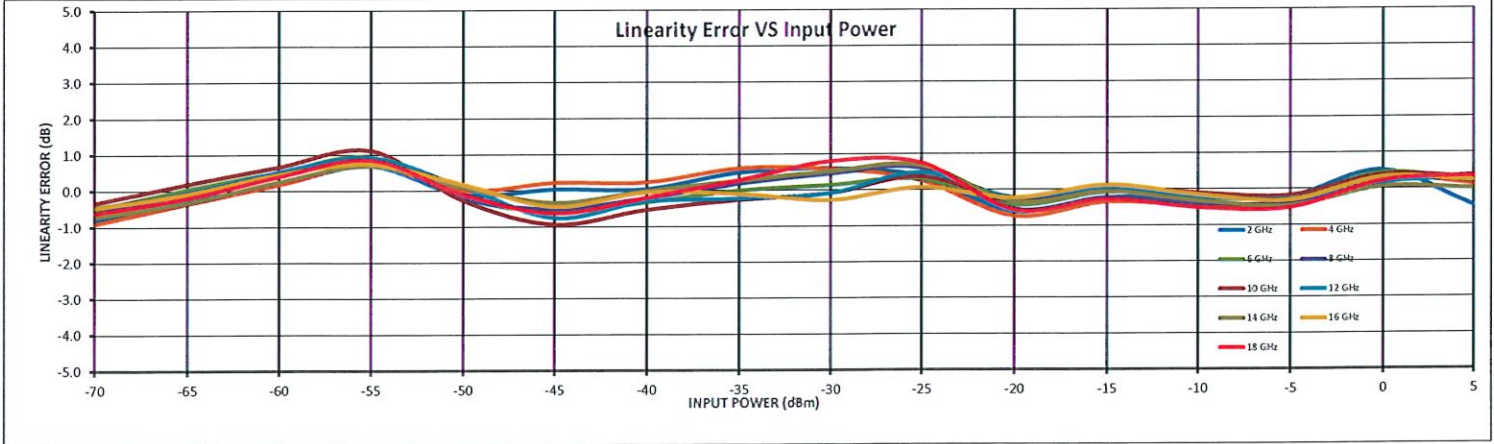
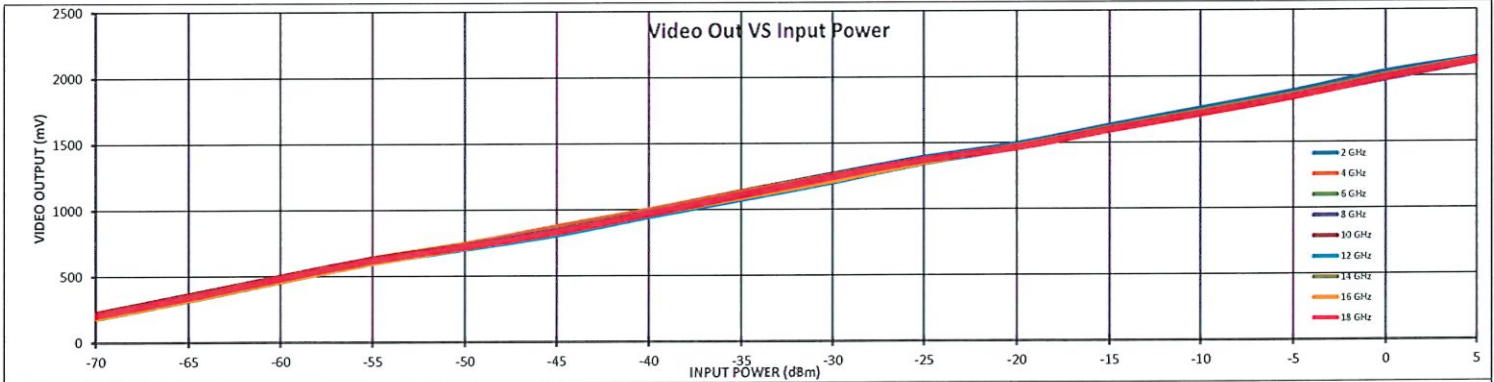
Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL42570/2342
 Date: 10/30/2023
 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	2017	25.5	0.8	210	351	490	631	738	869	997	1136	1266	1388	1491	1628	1755	1884	2030	2132	Measured Value (mV)
				-21	-7	4	18	-3	1	1	13	15	10	-15	-6	-5	-5	13	-12	ERROR (mV)
				-0.82	-0.28	0.18	0.70	-0.11	0.04	0.04	0.49	0.60	0.38	-0.61	-0.23	-0.23	-0.21	0.51	-0.46	LINEARITY ERROR (dB)
4 GHz	1997	25.1	0.9	216	355	494	633	741	872	998	1133	1253	1375	1476	1611	1734	1861	2005	2125	Measured Value (mV)
				-23	-9	4	18	0	5	6	15	15	6	-19	-9	-12	-10	8	3	ERROR (mV)
				-0.91	-0.36	0.17	0.72	0.01	0.22	0.22	0.61	0.59	0.26	-0.74	-0.35	-0.46	-0.41	0.32	0.12	LINEARITY ERROR (dB)
6 GHz	1991	25.2	0.9	216	356	494	630	727	843	976	1110	1239	1369	1477	1611	1733	1853	2002	2122	Measured Value (mV)
				-13	1	13	24	-5	-15	-8	0	3	8	-11	-2	-5	-7	11	5	ERROR (mV)
				-0.50	0.04	0.52	0.94	-0.19	-0.58	-0.32	0.00	0.14	0.30	-0.42	-0.07	-0.23	-0.26	0.43	0.20	LINEARITY ERROR (dB)
8 GHz	1980	24.9	0.9	220	358	495	631	729	845	977	1112	1243	1371	1467	1600	1721	1845	1985	2113	Measured Value (mV)
				-16	-2	11	22	-5	-13	-5	5	11	15	-14	-5	-10	-10	5	9	ERROR (mV)
				-0.62	-0.07	0.45	0.89	-0.20	-0.51	-0.21	0.19	0.45	0.60	-0.55	-0.23	-0.40	-0.38	0.22	0.37	LINEARITY ERROR (dB)
10 GHz	1983	25.0	1.1	221	360	497	633	724	832	968	1100	1229	1366	1474	1603	1730	1853	1992	2116	Measured Value (mV)
				-8	5	17	28	-7	-24	-13	-7	-2	9	-8	1	-3	-5	9	8	ERROR (mV)
				-0.34	0.19	0.66	1.12	-0.28	-0.94	-0.54	-0.26	-0.09	0.36	-0.33	0.05	-0.11	-0.18	0.38	0.31	LINEARITY ERROR (dB)
12 GHz	1978	25.4	0.9	191	328	470	607	713	818	956	1085	1215	1356	1465	1599	1719	1844	1983	2113	Measured Value (mV)
				-11	-2	13	24	3	-19	-8	-6	-2	12	-6	1	-5	-7	4	8	ERROR (mV)
				-0.45	-0.06	0.53	0.93	0.12	-0.75	-0.30	-0.23	-0.09	0.48	-0.22	0.05	-0.21	-0.28	0.17	0.30	LINEARITY ERROR (dB)
14 GHz	1987	25.4	0.7	190	327	469	607	719	835	970	1105	1233	1369	1470	1604	1725	1848	1989	2114	Measured Value (mV)
				-18	-8	7	17	2	-9	0	7	13	17	-9	-2	-8	-12	1	0	ERROR (mV)
				-0.72	-0.32	0.26	0.69	0.09	-0.34	-0.01	0.27	0.52	0.68	-0.34	-0.06	-0.33	-0.46	0.06	0.00	LINEARITY ERROR (dB)
16 GHz	1987	25.6	0.7	182	320	462	597	711	823	961	1088	1211	1348	1469	1606	1727	1851	1995	2121	Measured Value (mV)
				-12	-2	12	19	4	-11	-1	-3	-7	2	-6	3	-4	-8	8	6	ERROR (mV)
				-0.46	-0.09	0.46	0.74	0.17	-0.44	-0.05	-0.10	-0.23	0.07	-0.23	0.12	-0.15	-0.31	0.31	0.24	LINEARITY ERROR (dB)
18 GHz	1981	25.2	0.852	205	341	482	619	721	833	970	1108	1247	1371	1464	1597	1717	1842	1987	2116	Measured Value (mV)
				-16	-5	10	21	-3	-16	-5	7	20	19	-14	-7	-13	-13	6	9	ERROR (mV)
				-0.62	-0.19	0.39	0.85	-0.10	-0.63	-0.20	0.28	0.80	0.74	-0.57	-0.28	-0.52	-0.52	0.22	0.35	LINEARITY ERROR (dB)

Avg. Slope: 25.3 mV/dB 0.8 0.8 0.7 0.7 0.6 1.1 0.8 1 1.1 0.8 0.5 0.6 0.8 0.8 0.9 0.4 Flatness dB: ±1.1 dB

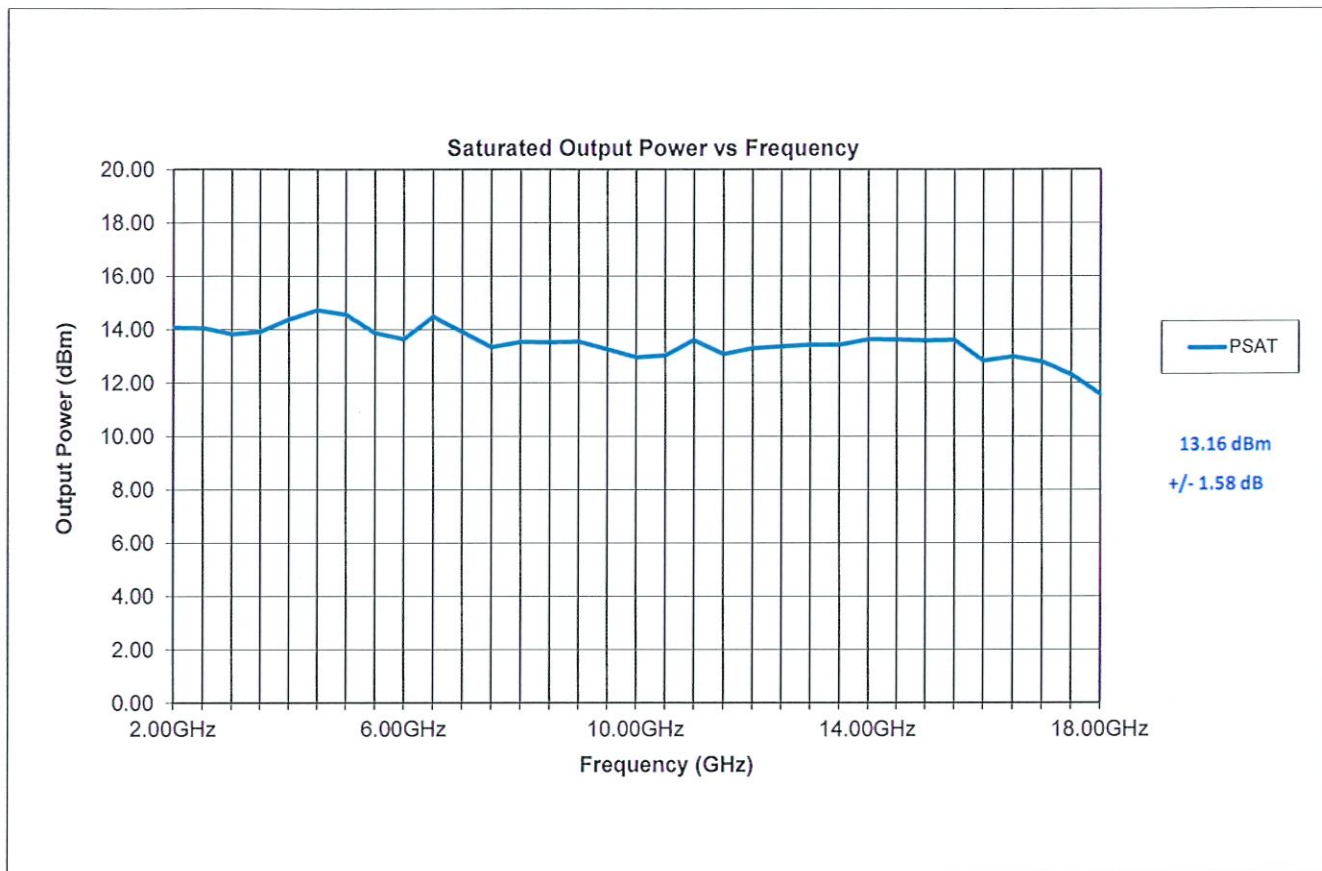




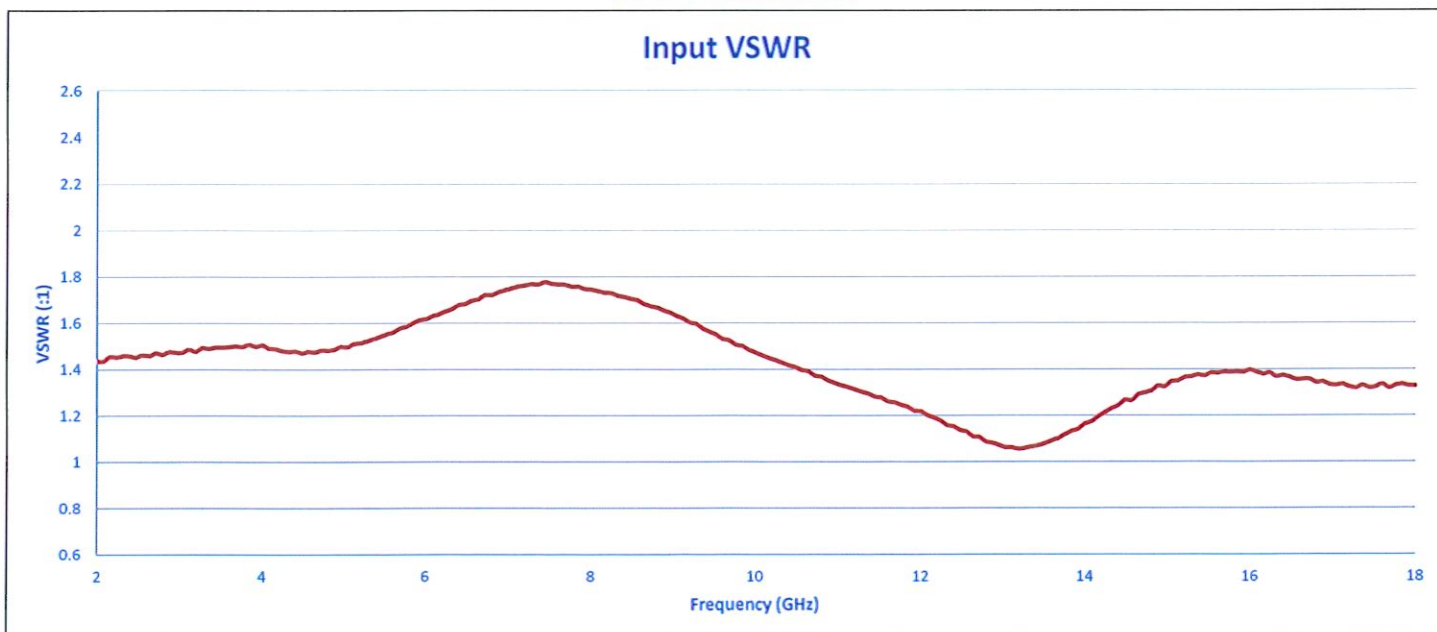
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42570/2342

PSAT



INPUT VSWR

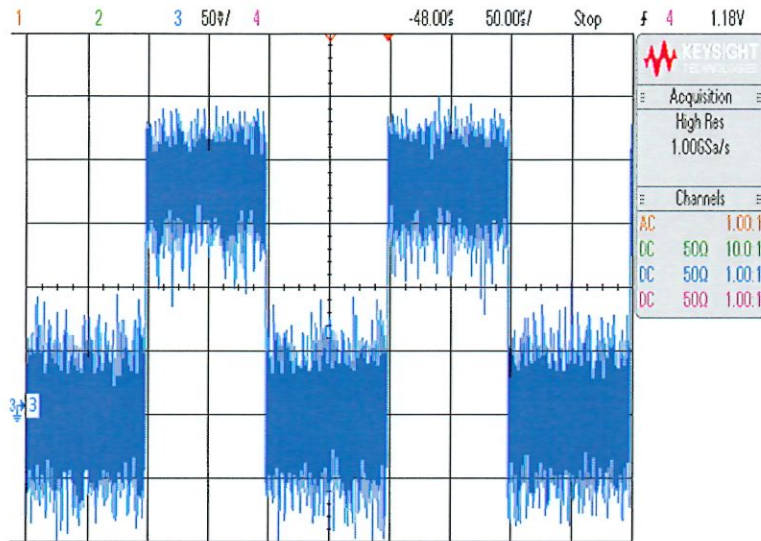




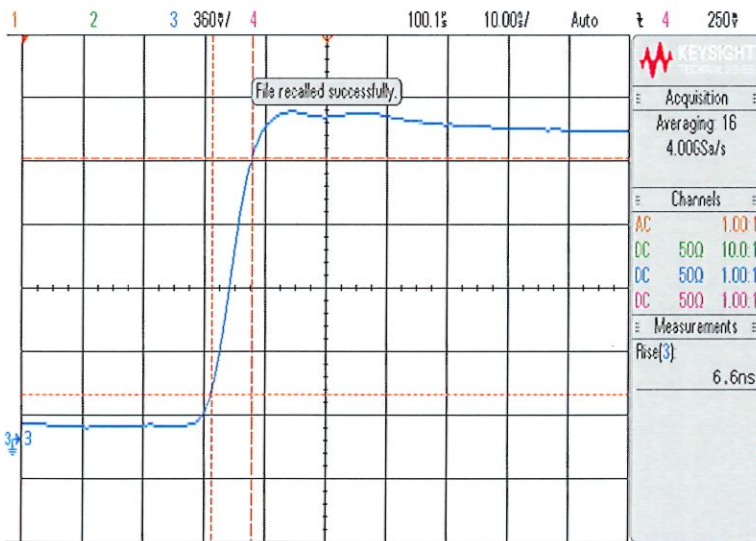
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL42670/2342

TSS



Rise Time



Fall Time

