



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

PL37923/2239

Customer: _____	Tested By: RCombs
SO No: _____	Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218	Date: 10/18/2022
Serial No: PL37923/2239	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	±1.4 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	11.12 dBm Avg.		
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.1 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)	8.0 ns		
12	Recovery Time:	60 ns Typical	35.0 ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 0 mA -12V @ 0 mA		PMI QA2

QA/QC Approval: _____

PMI
QA2

Date: 10/27/2022



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

PL37923/2239

Log Transfer Over Frequency +25°C

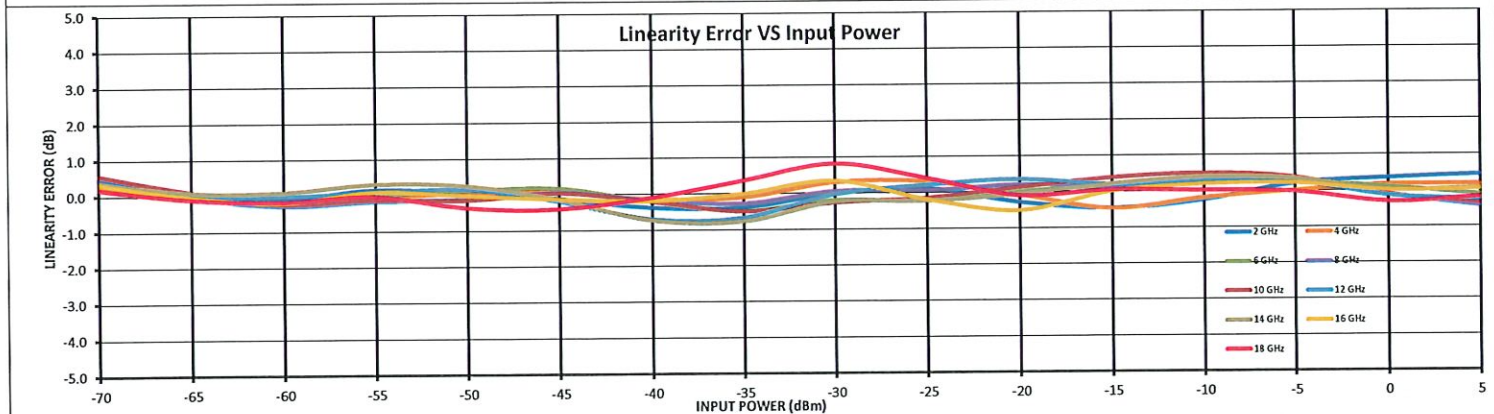
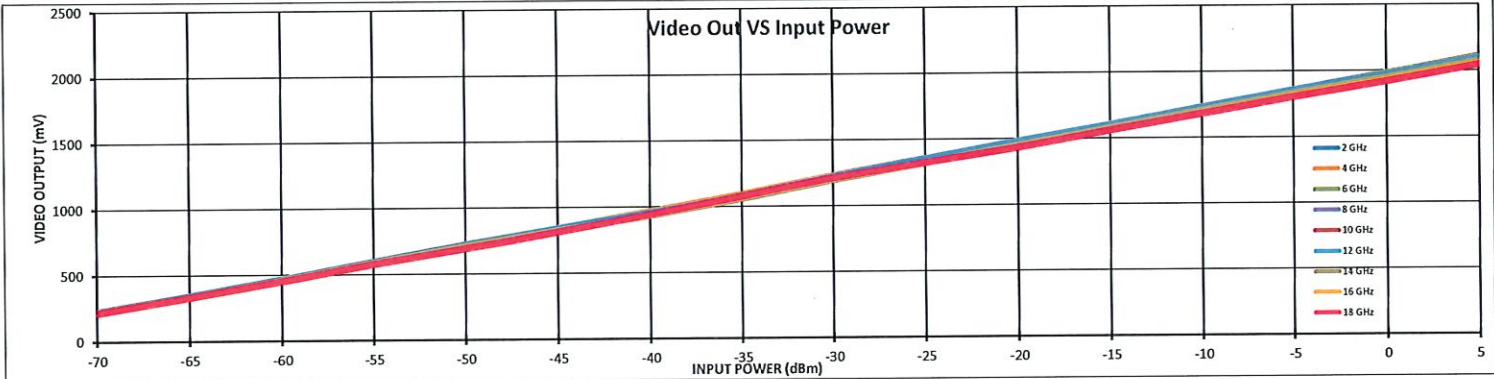


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37923/2239
 Date: 10/18/2022
 Tested By: RCombs
 Test Temp: +25°C

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)	1975	213	331	453	586	710	832	952	1079	1215	1345	1461	1583	1715	1854	1984	2113	Measured Value (mV)
	SLOPE (mV/dB)	25.3	12	3	-2	4	2	-3	-9	-10	0	3	-7	-12	-6	5	9	11	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.45	0.10	-0.08	0.17	0.07	-0.12	-0.37	-0.38	-0.01	0.12	-0.28	-0.46	-0.24	0.22	0.35	0.44	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1981	224	341	465	594	723	849	970	1097	1233	1359	1475	1591	1725	1855	1985	2111	Measured Value (mV)
	SLOPE (mV/dB)	25.2	6	-2	-4	-1	1	2	-4	-3	7	8	-2	-12	-5	0	4	4	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.25	-0.09	-0.17	-0.05	0.05	0.06	-0.14	-0.11	0.30	0.31	-0.08	-0.47	-0.18	0.00	0.16	0.16	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1983	219	336	459	590	719	847	964	1084	1218	1344	1477	1607	1735	1863	1986	2107	Measured Value (mV)
	SLOPE (mV/dB)	25.3	9	0	-4	0	3	4	-5	-12	-5	-6	1	4	5	6	2	-3	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.37	-0.02	-0.16	0.01	0.13	0.18	-0.21	-0.49	-0.19	-0.23	0.03	0.14	0.21	0.24	0.10	-0.12	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1978	214	329	449	579	707	838	960	1084	1219	1346	1476	1602	1733	1858	1975	2094	Measured Value (mV)
	SLOPE (mV/dB)	25.4	11	-1	-7	-4	-3	2	-4	-7	2	2	5	4	9	6	-3	-11	ERROR (mV)
	LIN. ERR. (dB)	0.4	0.43	-0.03	-0.28	-0.16	-0.11	0.06	-0.16	-0.27	0.06	0.06	0.21	0.17	0.35	0.25	-0.12	-0.43	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1973	210	325	443	573	699	831	952	1071	1205	1334	1468	1602	1732	1856	1970	2091	Measured Value (mV)
	SLOPE (mV/dB)	25.4	15	3	-6	-3	-4	1	-5	-13	-7	-4	3	10	13	9	-3	-9	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.57	0.10	-0.23	-0.12	-0.15	0.04	-0.21	-0.50	-0.26	-0.15	0.13	0.39	0.49	0.37	-0.12	-0.36	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1976	227	344	469	597	724	841	954	1080	1222	1354	1483	1604	1733	1857	1973	2095	Measured Value (mV)
	SLOPE (mV/dB)	25.1	9	0	0	2	4	-5	-17	-17	-1	5	9	5	8	7	-3	-6	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.37	0.01	-0.01	0.09	0.16	-0.18	-0.69	-0.66	-0.03	0.21	0.36	0.20	0.30	0.26	-0.14	-0.25	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1946	221	338	462	591	713	828	937	1060	1197	1321	1449	1580	1708	1831	1947	2072	Measured Value (mV)
	SLOPE (mV/dB)	24.8	9	2	2	8	6	-3	-18	-19	-6	-6	-1	5	10	9	0	2	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.37	0.09	0.10	0.31	0.26	-0.14	-0.73	-0.77	-0.24	-0.24	-0.05	0.22	0.39	0.34	0.02	0.06	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1939	205	320	440	572	693	815	938	1067	1201	1312	1428	1566	1695	1820	1939	2065	Measured Value (mV)
	SLOPE (mV/dB)	24.9	9	-1	-5	3	-1	-3	-5	0	9	-5	-13	0	5	6	0	1	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.35	-0.03	-0.19	0.11	-0.02	-0.13	-0.19	0.00	0.34	-0.19	-0.51	0.01	0.20	0.22	0.01	0.04	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1926	215	330	451	577	692	813	943	1077	1211	1323	1433	1560	1681	1803	1918	2044	Measured Value (mV)
	SLOPE (mV/dB)	24.5	4	-3	-4	-1	-9	-10	-3	9	20	10	-2	1	0	0	-8	-5	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.18	-0.10	-0.17	-0.03	-0.36	-0.41	-0.10	0.36	0.81	0.39	-0.10	0.05	0.01	-0.02	-0.32	-0.19	LINEARITY ERROR (dB)

Avg. Slope: 25.1 mV/dB

0.5 0.5 0.6 0.5 0.7 0.7 0.7 0.7 0.7 0.9 1.1 0.9 1.1 1.2 1.3 1.4 Flatness dB: ±1.4 dB





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

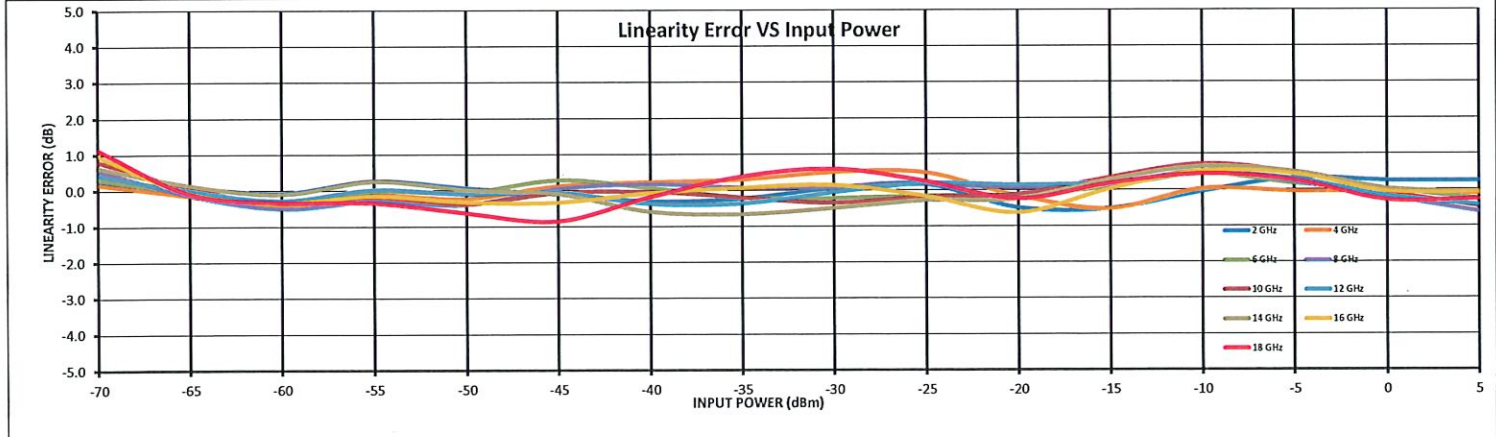
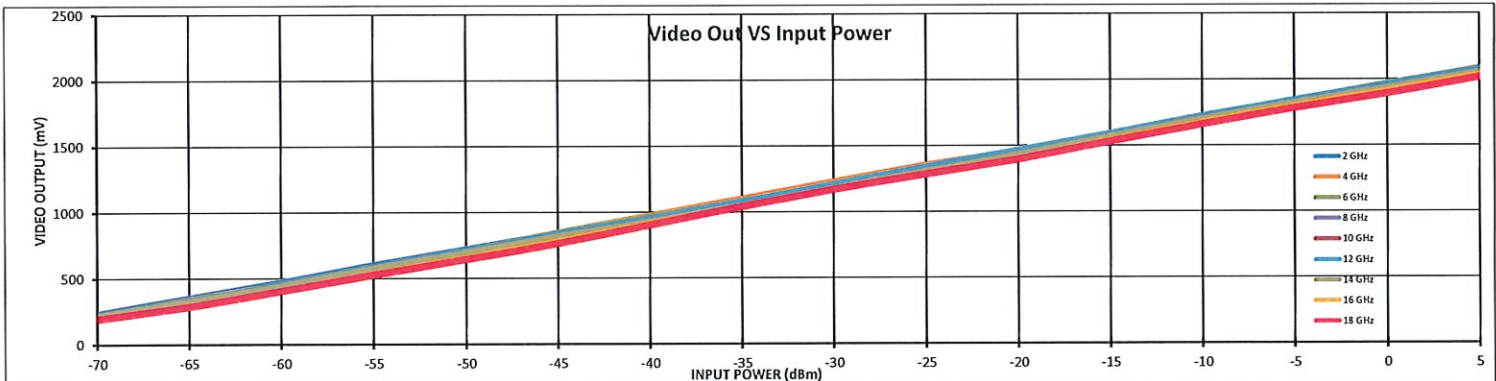
PL37923/2239

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37923/2239
 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	1952	24.5	0.5	239	359	478	609	726	845	963	1087	1217	1343	1449	1571	1705	1838	1958	2081	Measured Value (mV)
				5	2	-2	7	2	-3	-7	-6	2	4	-12	-13	-1	8	6	6	ERROR (mV)
				0.21	0.09	-0.06	0.28	0.07	-0.11	-0.30	-0.23	0.07	0.18	-0.48	-0.51	-0.04	0.34	0.25	0.25	LINEARITY ERROR (dB)
4 GHz	1967	24.9	0.5	229	345	463	595	717	850	977	1103	1233	1357	1465	1581	1719	1841	1966	2089	Measured Value (mV)
				4	-4	-10	-3	-6	3	6	7	13	12	-4	-13	1	-1	-1	-3	ERROR (mV)
				0.17	-0.15	-0.42	-0.13	-0.23	0.12	0.22	0.29	0.50	0.48	-0.17	-0.52	0.03	-0.05	-0.05	-0.11	LINEARITY ERROR (dB)
6 GHz	1969	25.0	0.5	226	341	459	592	717	850	970	1088	1213	1340	1465	1596	1730	1848	1969	2088	Measured Value (mV)
				8	-1	-8	0	-1	7	2	-5	-6	-4	-3	2	11	4	0	-6	ERROR (mV)
				0.33	-0.05	-0.34	-0.02	-0.05	0.29	0.08	-0.20	-0.22	-0.15	-0.12	0.08	0.46	0.18	0.00	-0.26	LINEARITY ERROR (dB)
8 GHz	1966	25.3	0.6	212	321	438	570	693	831	960	1084	1211	1339	1463	1591	1726	1845	1961	2077	Measured Value (mV)
				15	-3	-12	-7	-10	1	4	2	2	4	2	4	13	5	-5	-15	ERROR (mV)
				0.58	-0.12	-0.49	-0.28	-0.39	0.05	0.18	0.07	0.10	0.17	0.06	0.15	0.51	0.22	-0.19	-0.61	LINEARITY ERROR (dB)
10 GHz	1962	25.3	0.8	210	318	434	565	687	821	948	1071	1193	1324	1453	1591	1727	1847	1960	2077	Measured Value (mV)
				21	2	-9	-4	-9	-2	-1	-5	-9	-5	-3	9	18	12	-2	-12	ERROR (mV)
				0.81	0.07	-0.34	-0.18	-0.37	-0.07	-0.04	-0.20	-0.35	-0.18	-0.12	0.34	0.71	0.46	-0.08	-0.46	LINEARITY ERROR (dB)
12 GHz	1961	25.0	0.5	222	336	455	587	709	835	952	1077	1210	1341	1465	1591	1723	1844	1957	2076	Measured Value (mV)
				11	0	-7	1	-2	-1	-9	-9	-1	5	4	5	11	8	-4	-11	ERROR (mV)
				0.44	0.00	-0.27	0.03	-0.09	-0.05	-0.37	-0.36	-0.05	0.20	0.14	0.21	0.46	0.31	-0.18	-0.42	LINEARITY ERROR (dB)
14 GHz	1932	24.7	0.7	216	327	445	577	695	816	927	1049	1177	1306	1431	1567	1700	1820	1932	2053	Measured Value (mV)
				16	4	-2	6	1	-2	-16	-16	-12	-7	-6	7	16	12	1	-2	ERROR (mV)
				0.65	0.15	-0.10	0.26	0.02	-0.09	-0.59	-0.66	-0.49	-0.28	-0.24	0.28	0.64	0.50	0.03	-0.07	LINEARITY ERROR (dB)
16 GHz	1921	25.0	1.0	197	296	414	544	664	789	920	1049	1176	1292	1406	1547	1684	1807	1920	2044	Measured Value (mV)
				24	-2	-8	-4	-8	-8	-2	2	4	-4	-16	1	13	11	-1	-2	ERROR (mV)
				0.97	-0.07	-0.33	-0.15	-0.32	-0.33	-0.07	0.07	0.15	-0.17	-0.63	0.03	0.52	0.44	-0.05	-0.07	LINEARITY ERROR (dB)
18 GHz	1898	24.8	1.1	193	286	404	527	644	762	903	1040	1170	1285	1396	1531	1661	1781	1891	2015	Measured Value (mV)
				28	-2	-8	-8	-16	-21	-5	9	15	6	-6	4	11	7	-7	-6	ERROR (mV)
				1.15	-0.09	-0.33	-0.34	-0.63	-0.86	-0.19	0.38	0.59	0.24	-0.25	0.18	0.44	0.27	-0.29	-0.26	LINEARITY ERROR (dB)
Avg. Slope: 24.9 mV/dB				0.9 1.5 1.5 1.6 1.6 1.8 1.5 1.3 1.3 1.4 1.4 1.3 1.4 1.4 1.6 1.6 Flatness dB: ±1.8 dB																





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

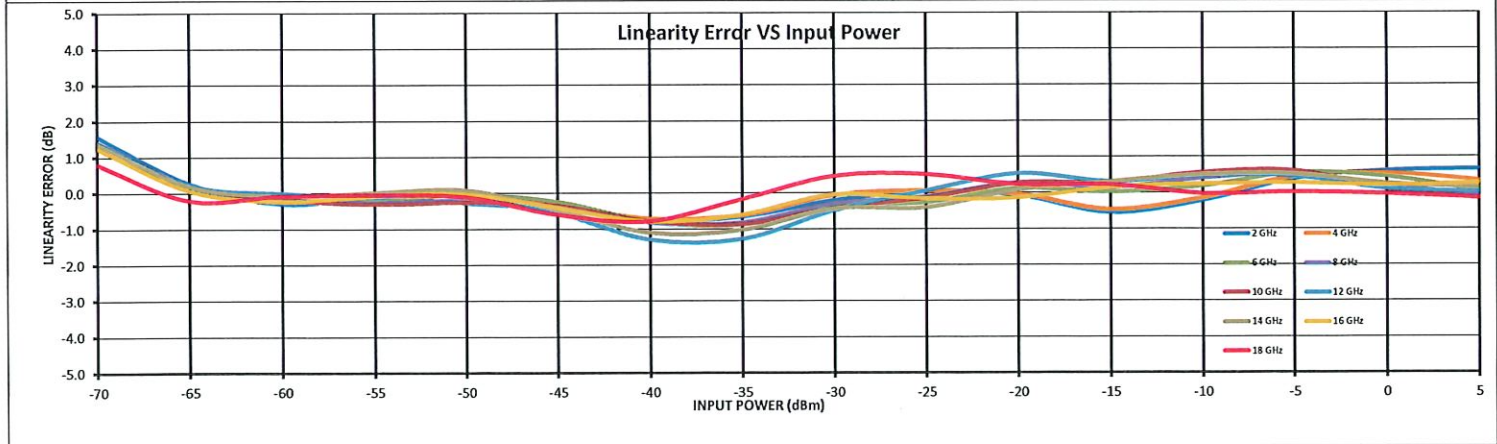
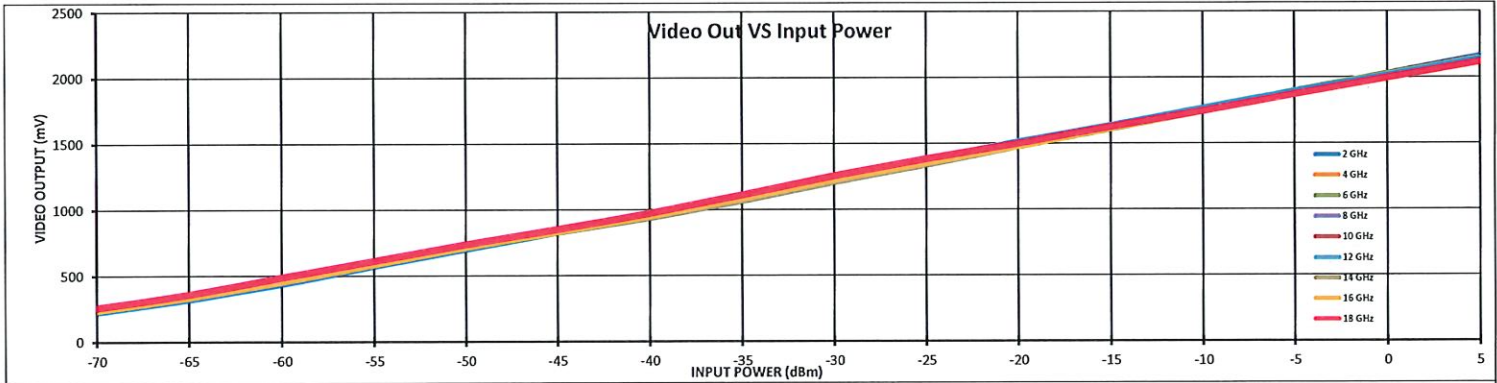
PL37923/2239

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37923/2239
 Date: 10/18/2022
 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	2016	26.2	1.6	223	320	436	572	699	825	947	1082	1225	1362	1490	1608	1748	1895	2032	2164	Measured Value (mV)	
				41	7	-8	-3	-7	-12	-20	-17	-5	1	-2	-14	-6	10	16	17	8	ERROR (mV)
				1.58	0.27	-0.29	-0.12	-0.27	-0.44	-0.78	-0.64	-0.19	0.05	-0.06	-0.55	-0.22	0.39	0.61	0.66		LINEARITY ERROR (dB)
4 GHz	2013		1.3	243	342	464	593	724	847	965	1096	1239	1371	1498	1615	1762	1896	2032	2164	Measured Value (mV)	
				32	3	-4	-4	-2	-8	-18	-16	-1	2	-1	-12	-4	11	14	8		ERROR (mV)
				1.25	0.11	-0.16	-0.17	-0.06	-0.31	-0.71	-0.61	-0.06	0.06	-0.04	-0.47	-0.14	0.44	0.54	0.33		LINEARITY ERROR (dB)
6 GHz	2016	25.8	1.4	241	339	460	589	722	846	962	1088	1232	1363	1502	1628	1762	1901	2027	2146	Measured Value (mV)	
				35	4	-5	-5	-1	-6	-20	-23	-9	-7	3	0	5	14	12	1		ERROR (mV)
				1.36	0.15	-0.19	-0.18	-0.03	-0.24	-0.78	-0.88	-0.33	-0.26	0.13	0.02	0.18	0.56	0.45	0.05		LINEARITY ERROR (dB)
8 GHz	2011	25.7	1.4	245	343	463	589	720	844	961	1090	1232	1365	1504	1629	1764	1896	2016	2138	Measured Value (mV)	
				35	5	-4	-7	-5	-10	-21	-21	-7	-3	7	4	10	13	5	-2		ERROR (mV)
				1.38	0.18	-0.15	-0.27	-0.19	-0.37	-0.81	-0.81	-0.29	-0.10	0.28	0.14	0.41	0.51	0.19	-0.08		LINEARITY ERROR (dB)
10 GHz	2006	25.7	1.4	245	342	461	585	715	841	959	1085	1225	1360	1499	1628	1763	1893	2009	2130	Measured Value (mV)	
				37	6	-4	-8	-7	-9	-20	-22	-11	-4	7	7	14	15	3	-4		ERROR (mV)
				1.42	0.23	-0.16	-0.31	-0.26	-0.36	-0.78	-0.87	-0.42	-0.14	0.27	0.28	0.56	0.60	0.11	-0.17		LINEARITY ERROR (dB)
12 GHz	2009	25.6	1.4	250	348	471	596	728	841	950	1079	1228	1370	1510	1633	1765	1893	2012	2138	Measured Value (mV)	
				36	6	0	-3	1	-14	-33	-33	-12	2	14	8	12	12	3	1		ERROR (mV)
				1.41	0.23	0.00	-0.10	0.02	-0.53	-1.28	-1.27	-0.47	0.07	0.54	0.31	0.48	0.46	0.11	0.02		LINEARITY ERROR (dB)
14 GHz	1987	25.4	1.4	241	338	459	588	717	830	941	1070	1213	1340	1480	1613	1745	1873	1993	2118	Measured Value (mV)	
				35	5	-2	0	2	-12	-28	-26	-11	-10	2	8	13	13	7	4		ERROR (mV)
				1.37	0.20	-0.07	0.02	0.09	-0.47	-1.10	-1.02	-0.43	-0.40	0.08	0.31	0.50	0.51	0.26	0.14		LINEARITY ERROR (dB)
16 GHz	1986	25.5	1.3	235	332	452	583	712	829	947	1079	1221	1345	1473	1608	1737	1865	1991	2120	Measured Value (mV)	
				32	2	-6	-2	-1	-10	-20	-15	-1	-4	-4	4	6	7	5	7		ERROR (mV)
				1.26	0.07	-0.23	-0.07	-0.02	-0.41	-0.79	-0.60	-0.04	-0.16	-0.14	0.15	0.24	0.27	0.21	0.26		LINEARITY ERROR (dB)
18 GHz	1997	25.1	0.807	258	358	487	613	737	851	972	1113	1255	1381	1500	1625	1745	1872	1996	2119	Measured Value (mV)	
				20	-5	-2	-1	-3	-15	-20	-4	12	13	6	5	-1	0	-1	-4		ERROR (mV)
				0.81	-0.21	-0.08	-0.05	-0.11	-0.61	-0.78	-0.18	0.47	0.51	0.22	0.22	-0.03	0.01	-0.04	-0.15		LINEARITY ERROR (dB)
Avg. Slope: 25.7 mV/dB				0.7	0.7	1	0.8	0.8	0.5	0.6	0.8	0.8	0.8	0.7	0.5	0.5	0.7	0.8	0.9	Flatness dB: ±1 dB	

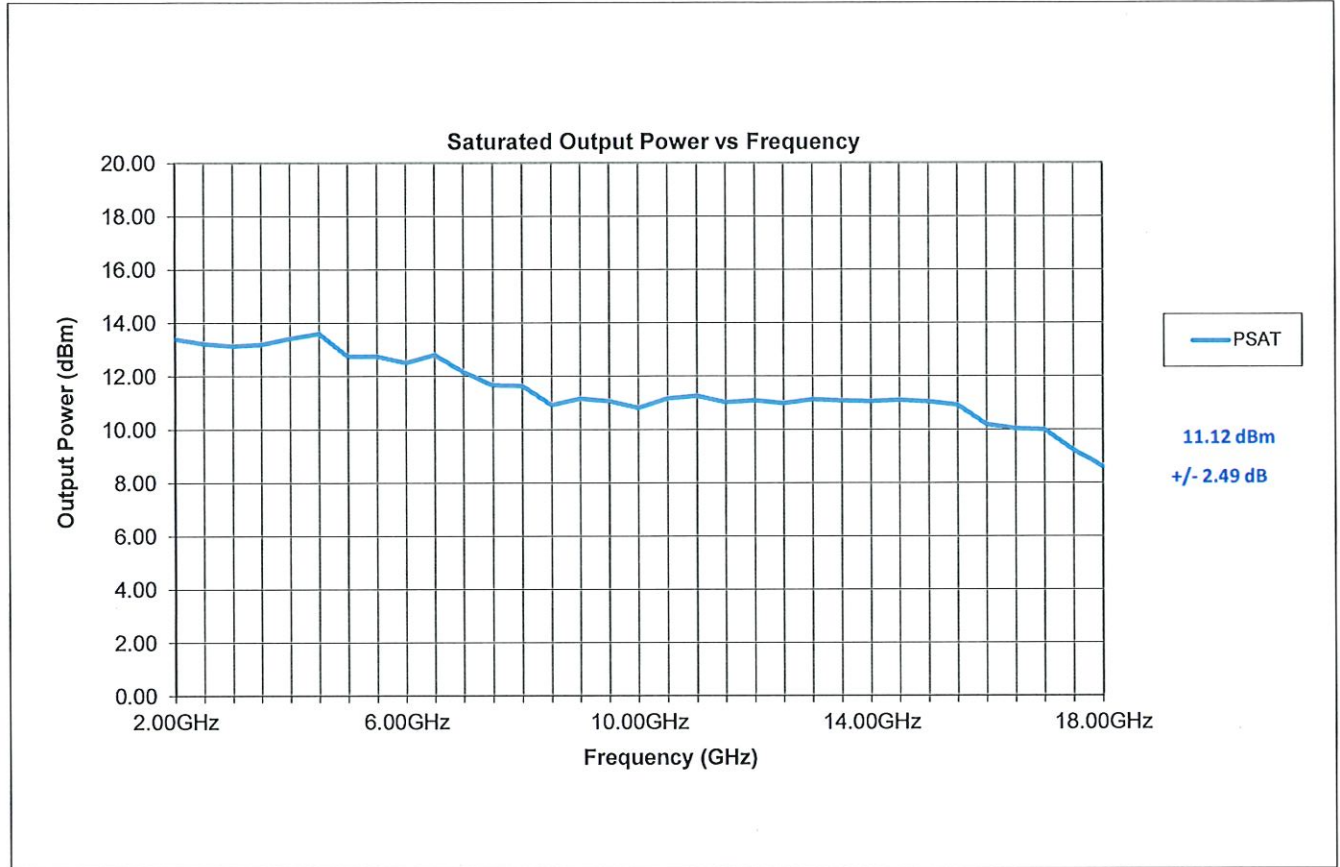




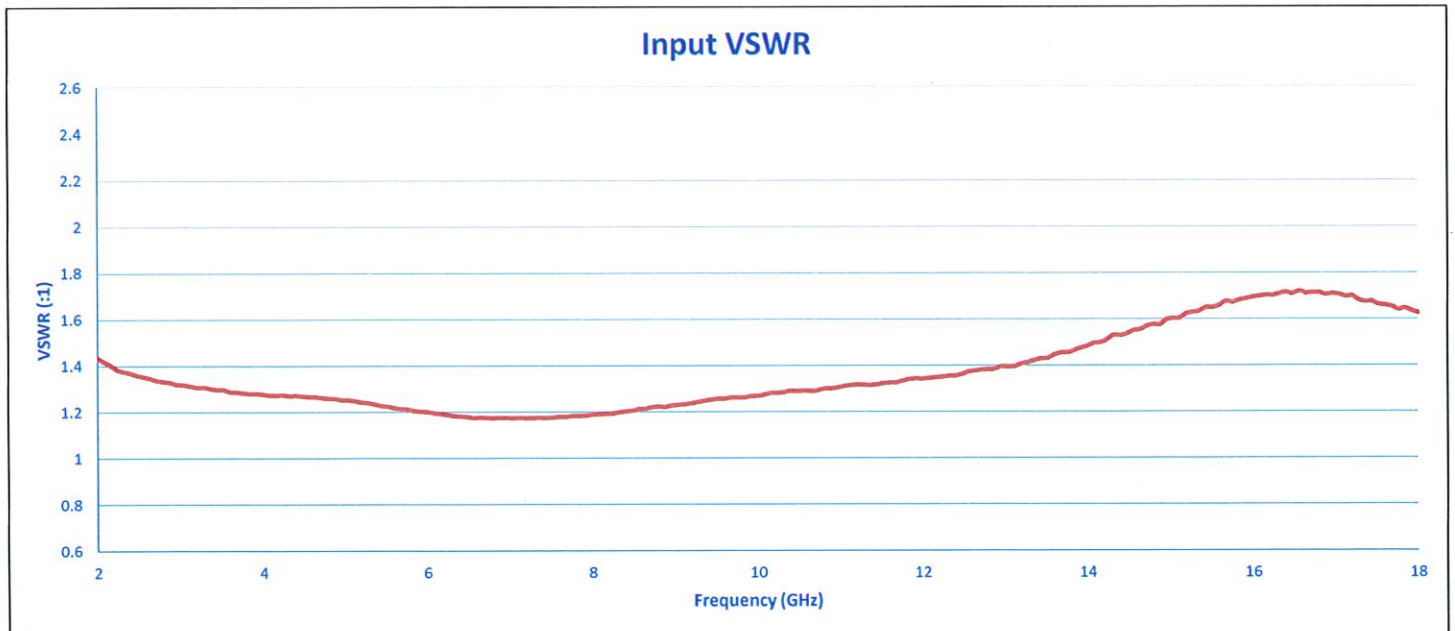
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37923/2239

PSAT



INPUT VSWR

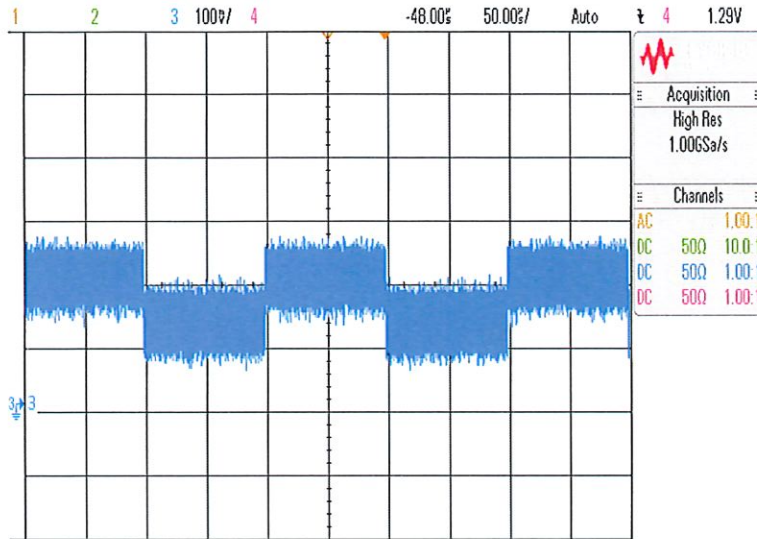




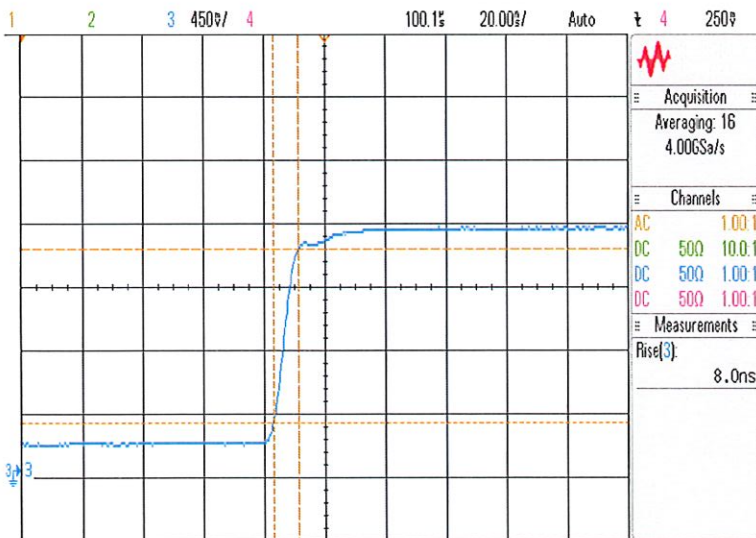
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37923/2239

TSS



Rise Time



Fall Time

