



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

PL36392/2218

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/28/2022
Serial No: PL36392/2218 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 QA 2
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)	1.8:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	13.45 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.8 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)	5.8 ns	
12	Recovery Time:	60 ns Typical	41.5	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 263 mA -12V @ 98 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: 4/29/2022



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

PL36392/2218

Log Transfer Over Frequency +25°C

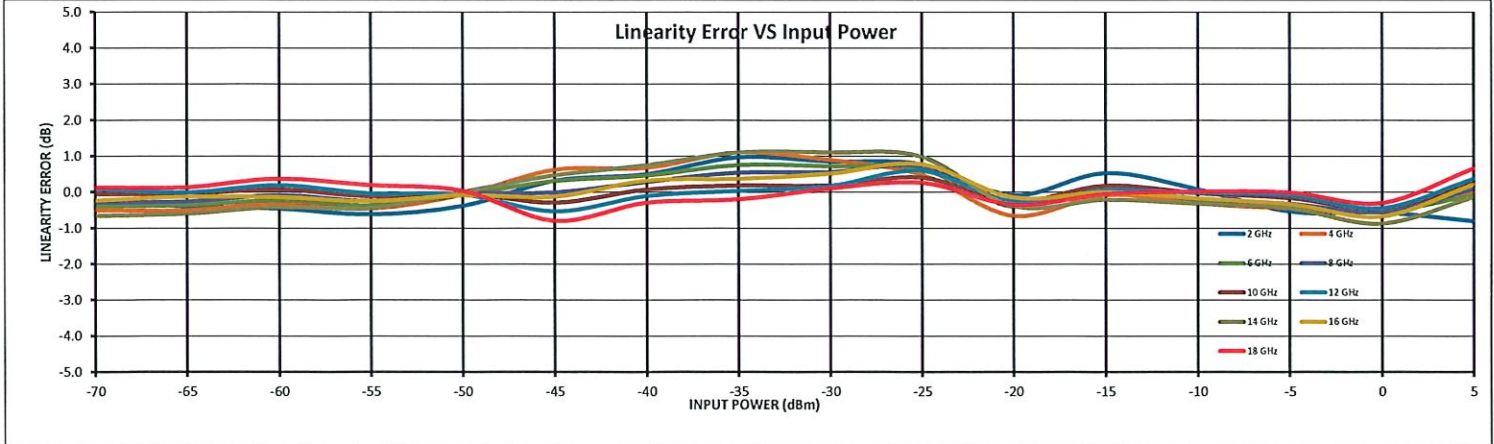
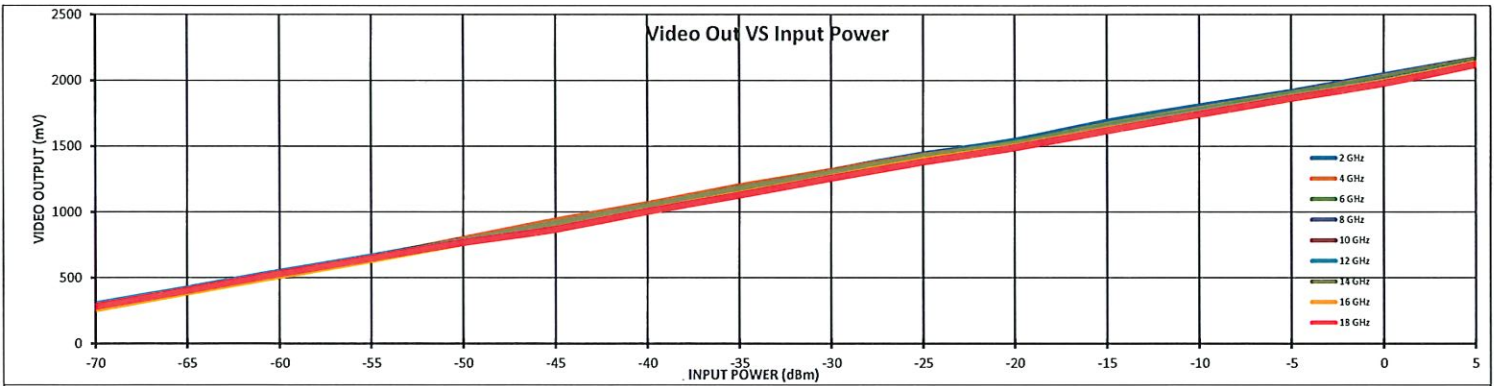


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36392/2218
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2057	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	SLOPE (mV/dB)	25.4	271	394	520	643	776	921	1053	1192	1316	1441	1546	1689	1805	1917	2043	2164	Measured Value (mV)
	LIN. ERR. (dB)	1.0	-6	-10	-11	-16	-10	8	13	25	22	20	-2	14	2	-14	-14	-20	ERROR (mV)
			-0.25	-0.40	-0.45	-0.61	-0.38	0.32	0.50	0.97	0.86	0.78	-0.08	0.54	0.09	-0.53	-0.56	-0.80	LINEARITY ERROR (dB)
4 GHz	SLOPE (mV/dB)	24.8	290	413	542	663	797	938	1063	1198	1317	1431	1527	1665	1784	1905	2028	2163	Measured Value (mV)
	LIN. ERR. (dB)	1.1	-12	-12	-8	-11	-2	16	17	27	22	12	-16	-2	-8	-11	-12	0	ERROR (mV)
			-0.49	-0.50	-0.32	-0.45	-0.07	0.63	0.68	1.11	0.90	0.49	-0.65	-0.07	-0.31	-0.44	-0.48	-0.02	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	25.0	276	402	531	652	784	919	1047	1180	1304	1427	1526	1663	1780	1900	2022	2158	Measured Value (mV)
	LIN. ERR. (dB)	0.8	-10	-9	-6	-9	-2	8	12	19	18	16	-10	3	-5	-10	-13	-2	ERROR (mV)
			-0.39	-0.36	-0.22	-0.36	-0.07	0.31	0.46	0.76	0.73	0.65	-0.40	0.10	-0.22	-0.40	-0.53	-0.07	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	24.7	280	404	532	651	780	904	1035	1165	1289	1416	1514	1646	1765	1885	2003	2142	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-7	-6	-2	-6	-1	0	7	14	14	18	-8	1	-4	-8	-13	2	ERROR (mV)
			-0.27	-0.26	-0.08	-0.24	-0.03	-0.01	0.29	0.55	0.57	0.71	-0.34	0.03	-0.17	-0.32	-0.53	0.10	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	24.7	279	403	529	648	774	891	1024	1151	1274	1403	1511	1645	1764	1884	2000	2142	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-1	-1	2	-3	-1	-7	2	5	10	-6	5	-1	-4	-11	-5	5	ERROR (mV)
			-0.04	-0.04	0.08	-0.11	-0.03	-0.29	0.08	0.19	0.19	0.41	-0.25	0.18	-0.02	-0.16	-0.45	0.26	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	24.4	294	414	541	658	779	890	1022	1148	1274	1406	1507	1637	1758	1878	1992	2134	Measured Value (mV)
	LIN. ERR. (dB)	0.6	2	0	5	-1	-1	-13	-2	1	4	15	-6	1	0	-2	-11	9	ERROR (mV)
			0.10	-0.01	0.20	-0.03	-0.06	-0.53	-0.10	0.04	0.17	0.60	-0.26	0.06	-0.02	-0.09	-0.44	0.38	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	24.6	272	396	524	646	780	915	1044	1176	1299	1419	1509	1636	1756	1876	1989	2130	Measured Value (mV)
	LIN. ERR. (dB)	1.1	-16	-16	-10	-11	0	12	18	27	27	24	-9	-5	-8	-11	-21	-3	ERROR (mV)
			-0.66	-0.59	-0.41	-0.44	0.01	0.47	0.75	1.11	1.11	0.99	-0.38	-0.20	-0.32	-0.44	-0.87	-0.13	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	25.0	253	380	505	627	756	880	1016	1142	1271	1402	1504	1633	1753	1874	1991	2138	Measured Value (mV)
	LIN. ERR. (dB)	0.8	-6	-3	-3	-6	-2	-3	8	9	13	20	-4	0	-4	-8	-17	5	ERROR (mV)
			-0.23	-0.12	-0.13	-0.24	-0.08	-0.12	0.33	0.38	0.52	0.78	-0.14	0.00	-0.17	-0.32	-0.67	0.22	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	24.4	282	404	532	649	768	869	1003	1127	1257	1383	1490	1619	1742	1864	1978	2124	Measured Value (mV)
	LIN. ERR. (dB)	0.8	3	3	9	5	1	-19	-7	-5	3	7	-8	-1	1	0	-7	16	ERROR (mV)
			0.14	0.14	0.38	0.20	0.04	-0.79	-0.29	-0.20	0.11	0.27	-0.34	-0.05	0.02	0.00	-0.30	0.66	LINEARITY ERROR (dB)

Avg. Slope: 24.8 mV/dB

0.8 0.7 0.8 0.7 0.8 1.4 1.2 1.4 1.2 1.2 1.1 1.4 1.3 1.1 1.3 0.8 Flatness dB: ±1.4 dB





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

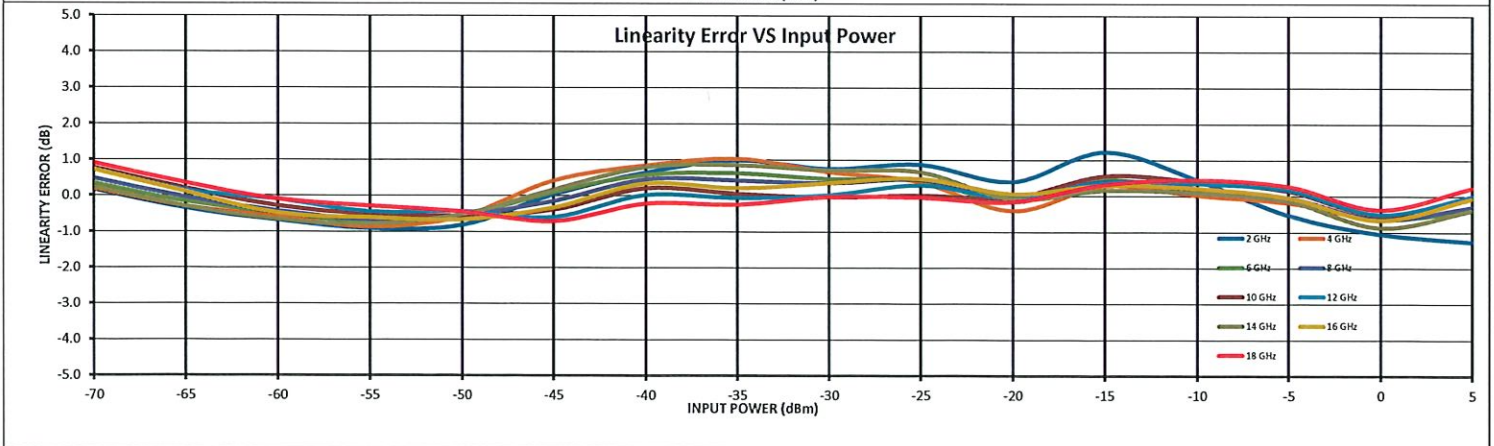
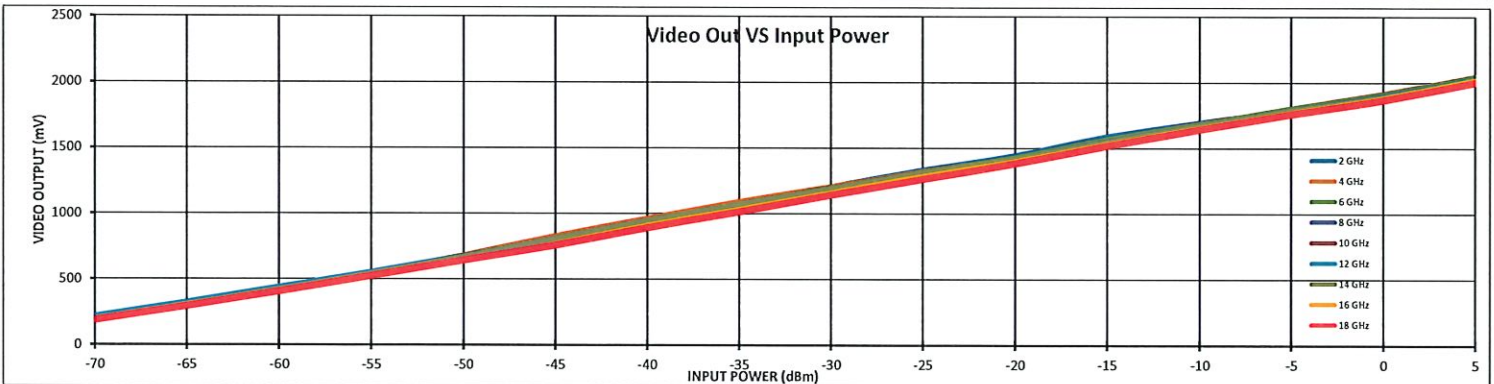
PL36392/2218

Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36392/2218
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +85°C

Log Transfer Over Frequency +85°C



Frequency	INTERCEPT (mV)	1928	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	1928	205	316	431	549	674	819	957	1089	1207	1333	1445	1589	1693	1792	1903	2021	Measured Value (mV)
	SLOPE (mV/dB)	24.7	4	-8	-17	-22	-20	1	16	25	19	22	10	30	11	-13	-26	-31	ERROR (mV)
	LIN. ERR. (dB)	1.3	0.17	-0.34	-0.68	-0.91	-0.82	0.04	0.64	0.99	0.75	0.88	0.40	1.23	0.46	-0.53	-1.04	-1.26	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1932	206	318	434	551	681	830	964	1092	1207	1324	1427	1568	1685	1804	1916	2047	Measured Value (mV)
	SLOPE (mV/dB)	24.7	5	-7	-14	-21	-15	11	21	26	16	10	-10	7	1	-4	-15	-9	ERROR (mV)
	LIN. ERR. (dB)	1.0	0.20	-0.29	-0.58	-0.86	-0.59	0.43	0.84	1.04	0.67	0.40	-0.40	0.29	0.03	-0.18	-0.62	-0.35	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1927	202	313	429	547	675	815	951	1076	1196	1319	1428	1567	1683	1800	1911	2042	Measured Value (mV)
	SLOPE (mV/dB)	24.8	9	-4	-12	-18	-13	2	14	16	12	11	-4	11	3	-3	-16	-9	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.35	-0.16	-0.48	-0.73	-0.54	0.10	0.59	0.63	0.47	0.45	-0.16	0.45	0.13	-0.11	-0.63	-0.37	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1912	196	307	421	538	664	798	936	1059	1180	1306	1417	1552	1670	1787	1896	2028	Measured Value (mV)
	SLOPE (mV/dB)	24.7	12	-1	-10	-16	-14	-4	11	11	9	11	-1	10	6	-1	-16	-7	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.48	-0.04	-0.42	-0.66	-0.55	-0.14	0.46	0.43	0.36	0.46	-0.05	0.41	0.23	-0.03	-0.64	-0.29	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1905	191	301	413	531	653	781	920	1040	1161	1287	1409	1548	1667	1785	1892	2027	Measured Value (mV)
	SLOPE (mV/dB)	24.8	19	5	-7	-13	-14	-10	5	1	-1	1	-1	14	10	4	-13	-1	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.77	0.21	-0.28	-0.52	-0.56	-0.39	0.21	0.06	-0.04	0.02	-0.04	0.56	0.40	0.15	-0.52	-0.06	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1898	211	319	435	548	670	788	925	1044	1168	1297	1410	1542	1663	1781	1886	2020	Measured Value (mV)
	SLOPE (mV/dB)	24.4	18	4	-2	-11	-11	-14	1	-1	1	7	-1	9	9	4	-12	0	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.73	0.16	-0.09	-0.44	-0.43	-0.59	0.02	-0.06	0.02	0.31	-0.04	0.39	0.36	0.18	-0.51	0.00	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1904	193	303	416	536	655	805	943	1067	1186	1307	1412	1540	1661	1778	1883	2017	Measured Value (mV)
	SLOPE (mV/dB)	24.5	6	-7	-16	-19	-13	4	19	21	17	17	-2	4	2	-3	-21	-10	ERROR (mV)
	LIN. ERR. (dB)	0.9	0.23	-0.29	-0.66	-0.78	-0.52	0.17	0.79	0.86	0.71	0.67	-0.08	0.17	0.10	-0.13	-0.87	-0.39	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1900	177	286	396	517	640	773	914	1035	1163	1291	1404	1535	1657	1775	1884	2023	Measured Value (mV)
	SLOPE (mV/dB)	24.9	18	3	-12	-15	-17	-8	9	5	9	12	2	8	6	-1	-17	-1	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.73	0.11	-0.48	-0.61	-0.67	-0.33	0.34	0.21	0.36	0.49	0.05	0.30	0.22	-0.03	-0.66	-0.05	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1876	187	295	407	524	643	758	893	1014	1142	1264	1383	1518	1643	1761	1867	2005	Measured Value (mV)
	SLOPE (mV/dB)	24.5	22	9	-2	-7	-11	-17	-6	6	0	-1	-4	8	11	7	-9	6	ERROR (mV)
	LIN. ERR. (dB)	0.9	0.91	0.36	-0.10	-0.28	-0.44	-0.71	-0.22	-0.24	-0.02	-0.03	-0.16	0.32	0.45	0.28	-0.37	0.24	LINEARITY ERROR (dB)
Avg. Slope: 24.6 mV/dB			0.7	0.7	0.8	0.7	0.8	1.4	1.4	1.6	1.3	1.4	1.2	1.4	1	0.9	1	0.9	Flatness dB: ±1.6 dB





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

PL36392/2218

Log Transfer Over Frequency -40°C

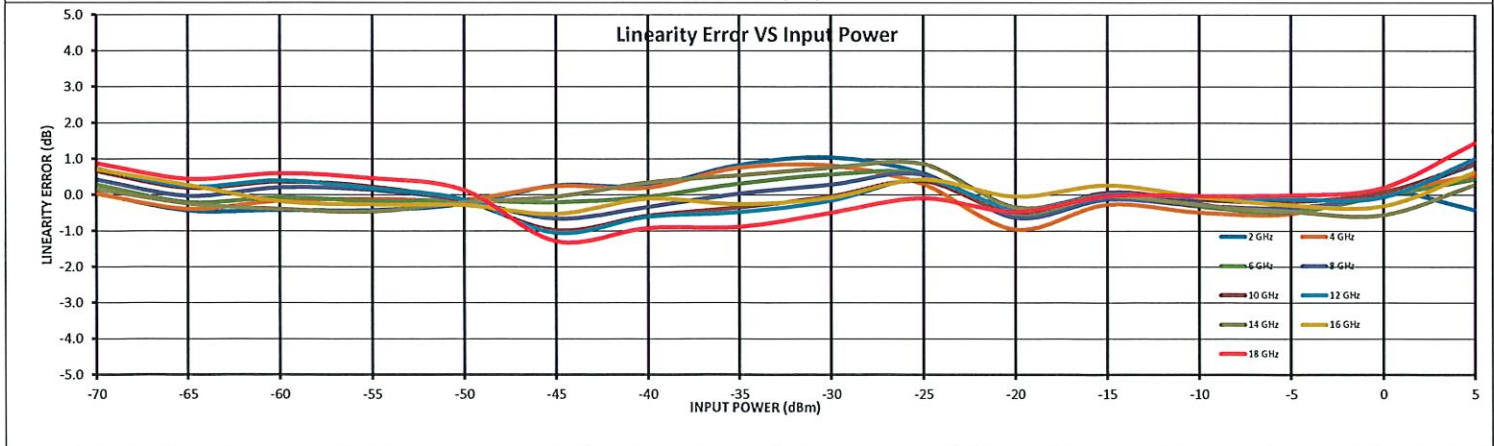
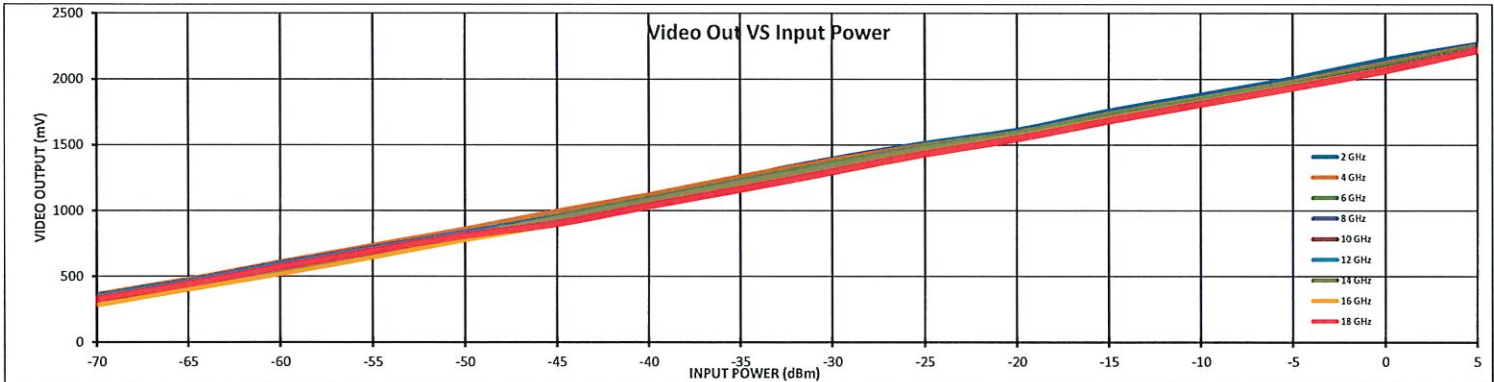


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36392/2218
 Date: 4/29/2022
 Tested By: RCombs
 Test Temp: -40°C

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	2148	26.1	1.0	322	440	571	701	837	980	1110	1256	1392	1511	1612	1757	1880	2004	2151	2267	Measured Value (mV)
				1	-11	-11	-11	-6	7	6	22	27	16	-14	1	-6	-13	3	-11	Error (mV)
				0.05	-0.43	-0.41	-0.43	-0.24	0.27	0.24	0.84	1.05	0.61	-0.53	0.04	-0.25	-0.50	0.12	-0.42	LINEARITY ERROR (dB)
4 GHz	2116	25.1	1.0	362	476	607	734	859	994	1118	1257	1384	1497	1591	1733	1853	1978	2119	2255	Measured Value (mV)
				1	-10	-4	-3	-3	6	5	19	21	8	-24	-7	-12	-13	3	14	Error (mV)
				0.04	-0.39	-0.16	-0.11	-0.13	0.25	0.20	0.76	0.82	0.30	-0.95	-0.27	-0.48	-0.52	0.10	0.55	LINEARITY ERROR (dB)
6 GHz	2110	25.4	0.6	337	452	582	707	835	960	1091	1228	1361	1489	1586	1728	1847	1971	2109	2248	Measured Value (mV)
				7	-5	-2	-4	-4	-5	-1	8	15	15	-15	0	-8	-12	0	11	Error (mV)
				0.29	-0.20	-0.07	-0.16	-0.15	-0.20	-0.05	0.32	0.57	0.58	-0.58	0.00	-0.32	-0.47	-0.02	0.44	LINEARITY ERROR (dB)
8 GHz	2087	24.9	0.9	353	466	597	720	837	949	1081	1215	1346	1478	1573	1710	1830	1954	2087	2233	Measured Value (mV)
				11	-1	5	4	-4	-16	-8	1	7	14	-16	-3	-7	-9	0	21	Error (mV)
				0.43	-0.02	0.21	0.14	-0.15	-0.66	-0.34	0.04	0.29	0.57	-0.63	-0.12	-0.29	-0.35	0.01	0.86	LINEARITY ERROR (dB)
10 GHz	2083	25.0	1.0	351	464	593	714	829	934	1069	1200	1333	1468	1571	1710	1830	1954	2085	2231	Measured Value (mV)
				17	5	9	6	-4	-25	-15	-9	-1	10	-12	2	-3	-5	2	23	Error (mV)
				0.67	0.20	0.37	0.23	-0.17	-0.98	-0.58	-0.35	-0.04	0.39	-0.49	0.07	-0.13	-0.18	0.07	0.91	LINEARITY ERROR (dB)
12 GHz	2072	24.9	1.1	344	457	585	705	822	923	1059	1187	1320	1459	1564	1699	1821	1945	2071	2222	Measured Value (mV)
				18	6	10	5	-3	-26	-15	-12	-4	11	-9	1	-2	-3	-1	25	Error (mV)
				0.74	0.24	0.41	0.19	-0.12	-1.05	-0.61	-0.48	-0.15	0.43	-0.38	0.02	-0.08	-0.11	-0.06	1.01	LINEARITY ERROR (dB)
14 GHz	2086	25.5	0.9	302	420	543	669	804	935	1073	1206	1339	1470	1567	1702	1824	1947	2072	2221	Measured Value (mV)
				4	-6	-10	-12	-5	-1	9	14	19	22	-9	-1	-7	-12	-14	7	Error (mV)
				0.17	-0.23	-0.39	-0.46	-0.20	-0.05	0.35	0.55	0.76	0.87	-0.33	-0.02	-0.28	-0.46	-0.55	0.29	LINEARITY ERROR (dB)
16 GHz	2082	26.0	0.7	280	399	517	645	774	898	1039	1165	1300	1443	1560	1698	1820	1944	2074	2228	Measured Value (mV)
				19	7	-4	-7	-7	-14	-3	-7	-2	11	-1	7	-1	-7	-8	17	Error (mV)
				0.72	0.28	-0.17	-0.26	-0.28	-0.53	-0.10	-0.26	-0.07	0.44	-0.04	0.27	-0.05	-0.28	-0.31	0.65	LINEARITY ERROR (dB)
18 GHz	2062	25.1	1.444	328	443	572	694	811	901	1035	1162	1297	1433	1548	1685	1810	1936	2067	2223	Measured Value (mV)
				22	11	15	12	4	-32	-23	-22	-12	-2	-12	-1	0	0	5	36	Error (mV)
				0.88	0.45	0.60	0.47	0.14	-1.29	-0.92	-0.89	-0.49	-0.08	-0.47	-0.02	-0.02	-0.01	0.20	1.44	LINEARITY ERROR (dB)

Avg. Slope: 25.3 mV/dB

1.6 1.5 1.8 1.8 1.7 1.9 1.6 1.9 1.9 1.6 1.3 1.4 1.4 1.3 0.9 Flatness dB: ±1.9 dB

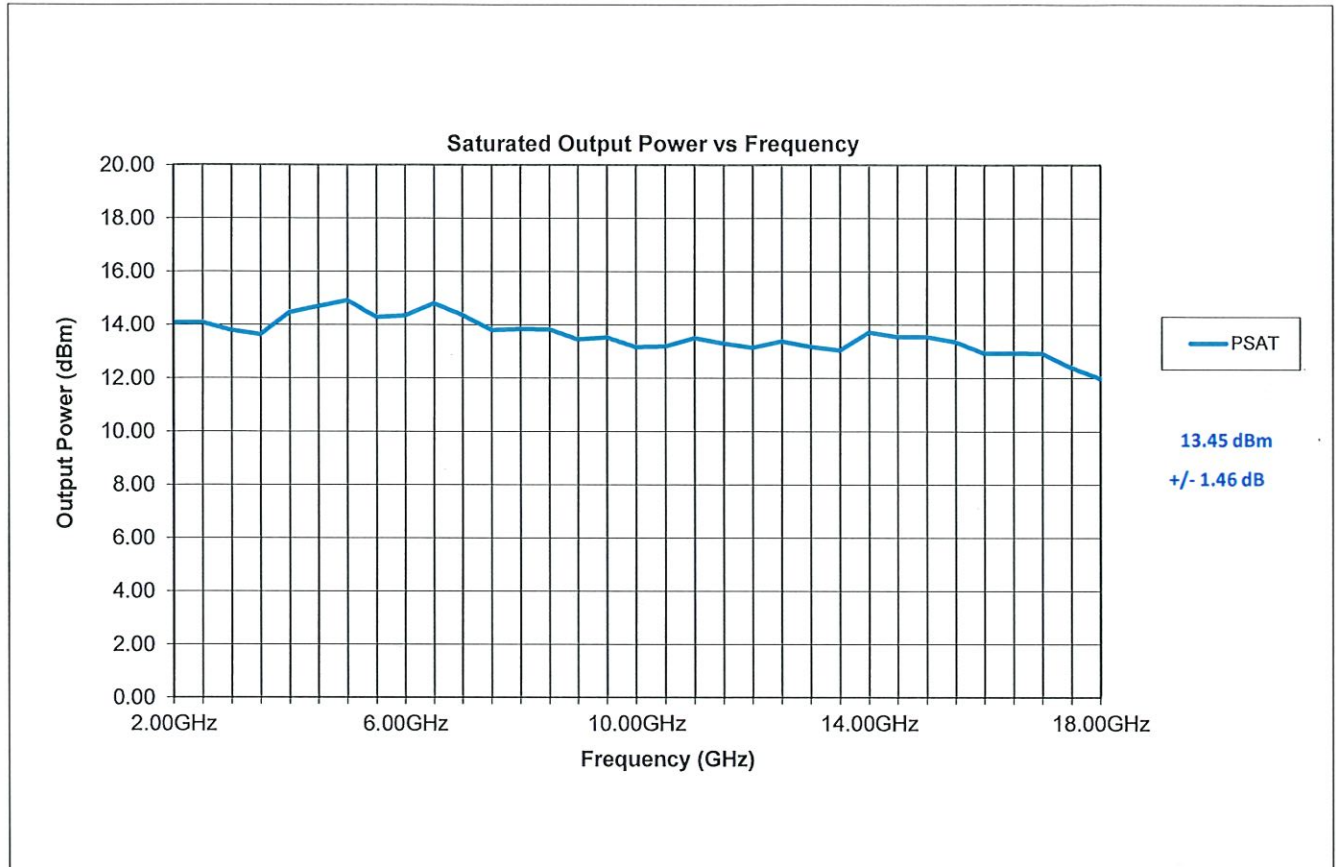




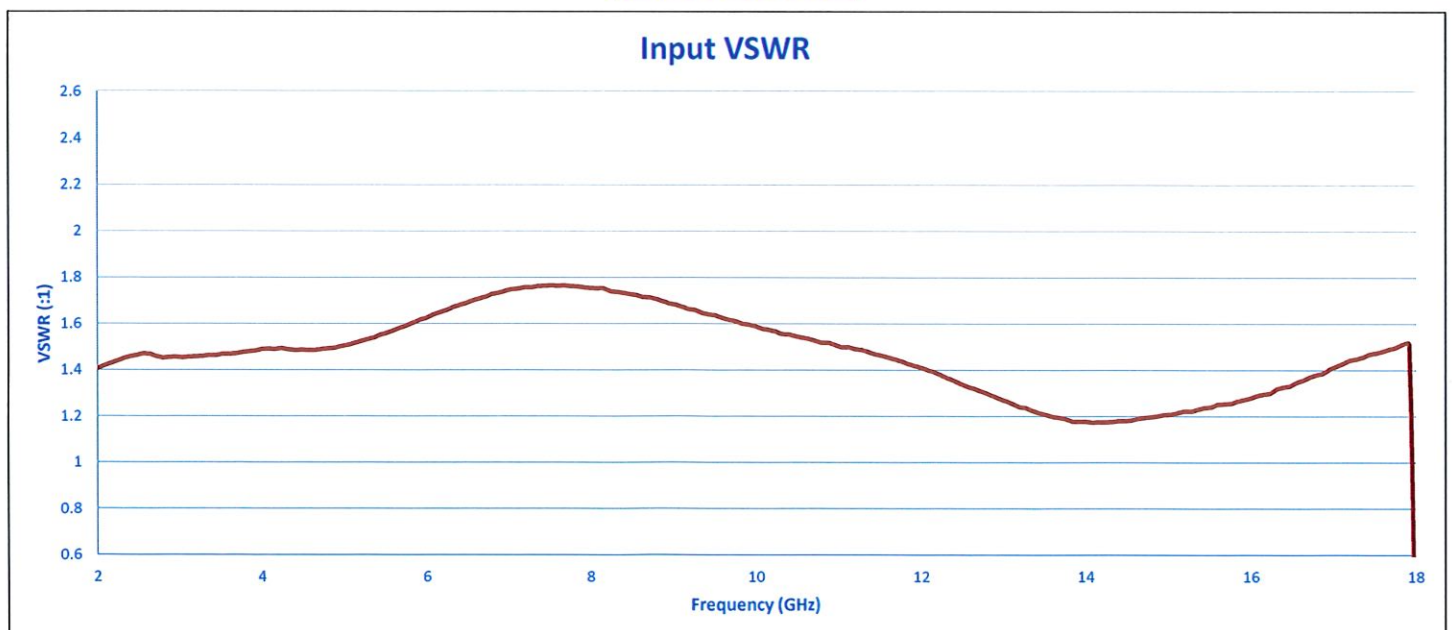
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36392/2218

PSAT



INPUT VSWR

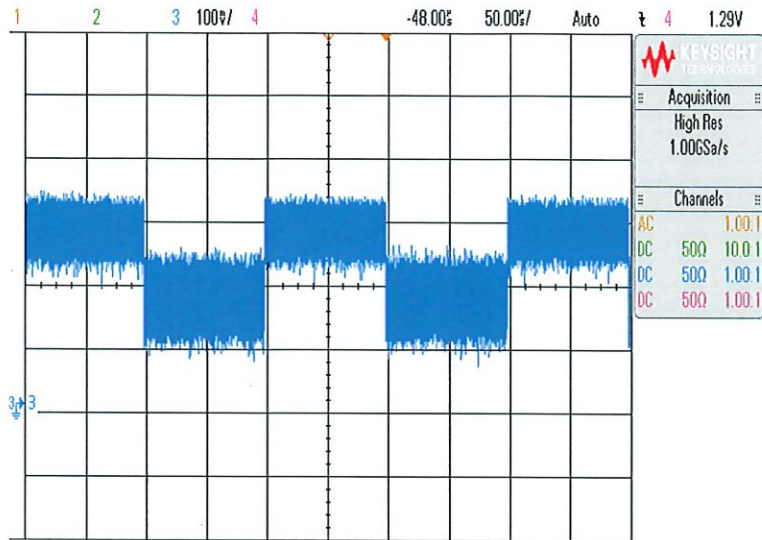




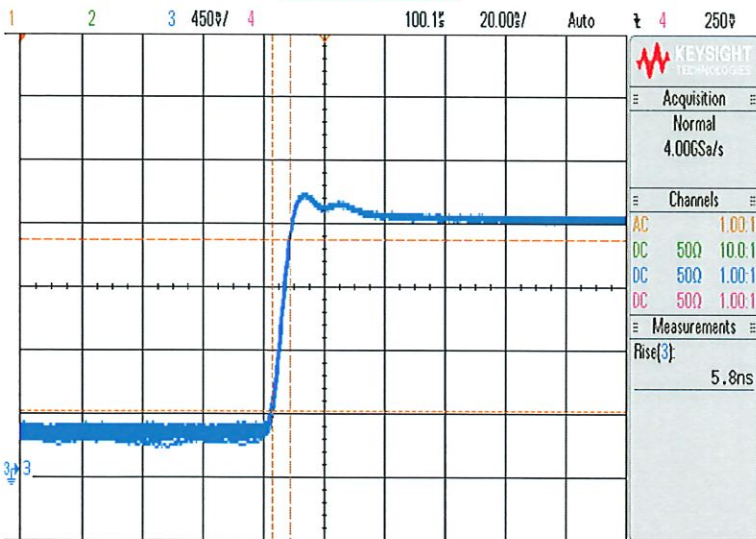
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36392/2218

TSS



Rise Time



Fall Time

