



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

PL41944/2335

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 8/31/2023
Serial No: PL41944/2335 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	±1.5 dB 25°C See Plots	
3	TSS:	-70 dBm Minimum	-72 dBm	
4	VSWR:	2.0:1 (Input)	1.9:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	11.42 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.5 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)	±2.3 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.8 ns	
12	Recovery Time:	60 ns Typical	47.3 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 261 mA -12V @ 95 mA	PMI QA2

QA/QC Approval: *Camery Kelly* PMI
QA2

Date: _____



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

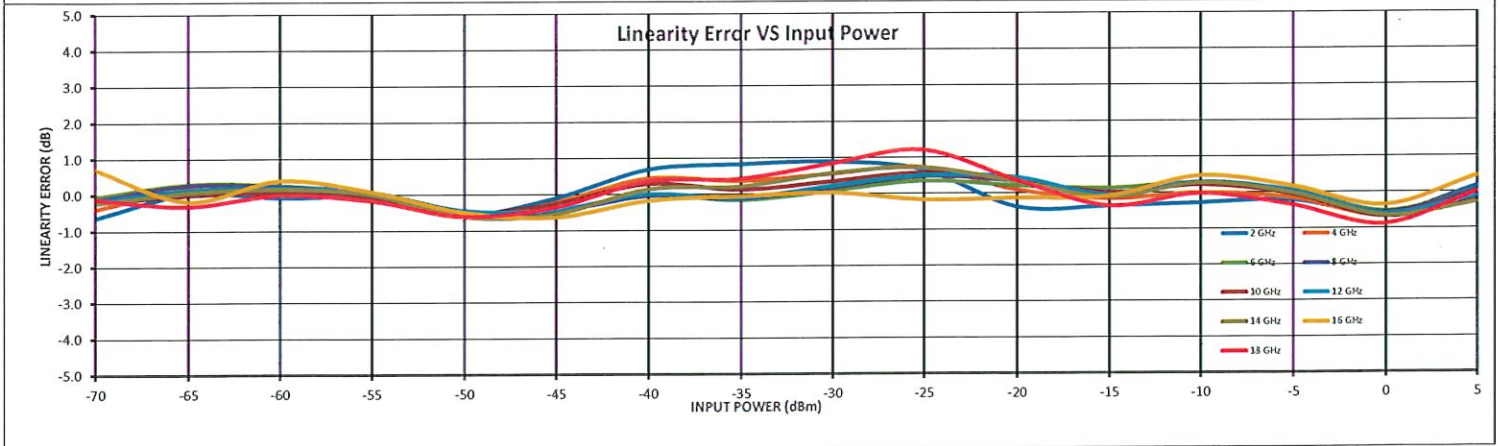
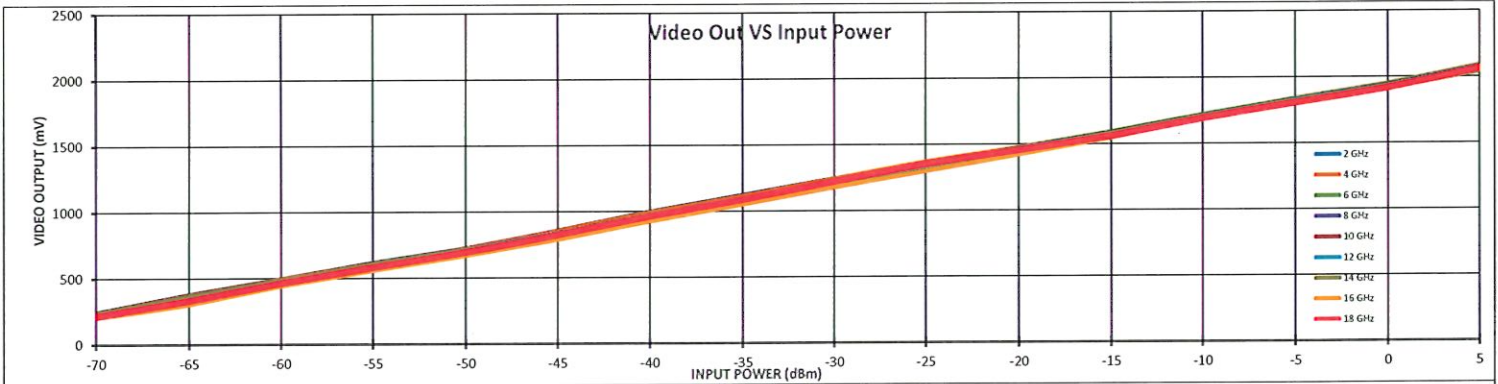
PL41944/2335

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL41944/2335
 Date: 8/31/2023
 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	1943	24.1	0.9	238	375	493	614	723	854	994	1118	1240	1355	1451	1572	1695	1817	1928	2067	Measured Value (mV)
				-15	1	-2	-2	-13	-2	17	20	22	16	-9	-9	-7	-5	-15	4	ERROR (mV)
				-0.63	0.04	-0.07	-0.06	-0.55	-0.10	0.69	0.83	0.89	0.66	-0.38	-0.36	-0.28	-0.21	-0.61	0.16	LINEARITY ERROR (dB)
4 GHz	1962	24.6	0.7	233	370	490	608	719	852	991	1111	1239	1366	1473	1590	1716	1835	1946	2085	Measured Value (mV)
				-10	4	1	-3	-15	-5	11	9	14	18	2	-4	0	-4	-16	0	ERROR (mV)
				-0.40	0.15	0.04	-0.13	-0.62	-0.22	0.44	0.36	0.55	0.73	0.09	-0.16	-0.01	-0.16	-0.67	0.00	LINEARITY ERROR (dB)
6 GHz	1959	24.7	0.5	227	359	481	600	708	834	968	1088	1217	1347	1467	1589	1716	1834	1943	2080	Measured Value (mV)
				-1	7	6	1	-13	-12	-1	-4	2	9	5	3	7	1	-13	1	ERROR (mV)
				-0.06	0.30	0.26	0.05	-0.54	-0.47	-0.03	0.08	0.35	0.21	0.13	0.28	0.06	-0.53	0.05	LINEARITY ERROR (dB)	
8 GHz	1948	24.5	0.6	230	362	484	602	711	834	967	1087	1217	1347	1466	1580	1709	1825	1934	2071	Measured Value (mV)
				-4	7	6	1	-12	-11	-1	-3	4	12	8	0	6	0	-14	1	ERROR (mV)
				-0.15	0.27	0.24	0.06	-0.48	-0.46	-0.04	-0.12	0.17	0.47	0.34	-0.01	0.25	-0.01	-0.57	0.04	LINEARITY ERROR (dB)
10 GHz	1950	24.6	0.7	223	351	476	595	708	837	973	1092	1221	1349	1467	1581	1709	1826	1933	2068	Measured Value (mV)
				-5	0	2	-1	-12	-6	7	3	8	14	9	0	5	-1	-17	-5	ERROR (mV)
				-0.21	0.00	0.07	-0.05	-0.50	-0.26	0.29	0.12	0.34	0.57	0.35	0.00	0.22	-0.05	-0.68	-0.21	LINEARITY ERROR (dB)
12 GHz	1939	24.4	0.6	225	355	479	597	707	830	962	1081	1211	1340	1461	1571	1702	1817	1924	2058	Measured Value (mV)
				-4	3	5	2	-11	-10	0	-3	5	12	11	-1	7	1	-15	-3	ERROR (mV)
				-0.17	0.14	0.21	0.07	-0.44	-0.42	0.01	-0.10	0.22	0.50	0.44	-0.06	0.30	0.03	-0.60	-0.12	LINEARITY ERROR (dB)
14 GHz	1935	24.4	0.7	224	353	477	595	702	826	964	1088	1218	1344	1456	1567	1699	1813	1920	2051	Measured Value (mV)
				-5	2	4	0	-15	-13	3	5	14	17	8	-3	7	0	-16	-7	ERROR (mV)
				-0.22	0.06	0.16	0.01	-0.62	-0.54	0.14	0.21	0.57	0.72	0.32	-0.12	0.27	-0.02	-0.65	-0.28	LINEARITY ERROR (dB)
16 GHz	1920	24.8	0.7	201	303	441	558	667	788	923	1050	1177	1296	1421	1546	1684	1801	1911	2056	Measured Value (mV)
				18	-5	10	2	-12	-16	-4	-1	1	-4	-3	-2	12	4	-9	11	ERROR (mV)
				0.72	-0.19	0.40	0.09	-0.49	-0.64	-0.18	-0.06	0.03	-0.17	-0.13	-0.09	0.46	0.17	-0.36	0.44	LINEARITY ERROR (dB)
18 GHz	1938	24.6	1.2	214	332	462	581	694	823	963	1088	1221	1353	1455	1561	1692	1807	1916	2061	Measured Value (mV)
				-3	-8	0	-4	-18	-9	9	10	21	30	9	-9	-1	-9	-22	0	ERROR (mV)
				-0.11	-0.32	0.00	-0.17	-0.61	-0.35	0.36	0.42	0.84	1.21	0.36	-0.36	-0.02	-0.36	-0.89	0.00	LINEARITY ERROR (dB)
Avg. Slope: 24.5 mV/dB				0.7 1.5 1 1.1 1.1 1.4 1.4 1.4 1.3 1.4 1.1 0.9 0.7 0.7 0.7 0.7 Flatness dB: ±1.5 dB																





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

PL41944/2335

Log Transfer Over Frequency +85°C

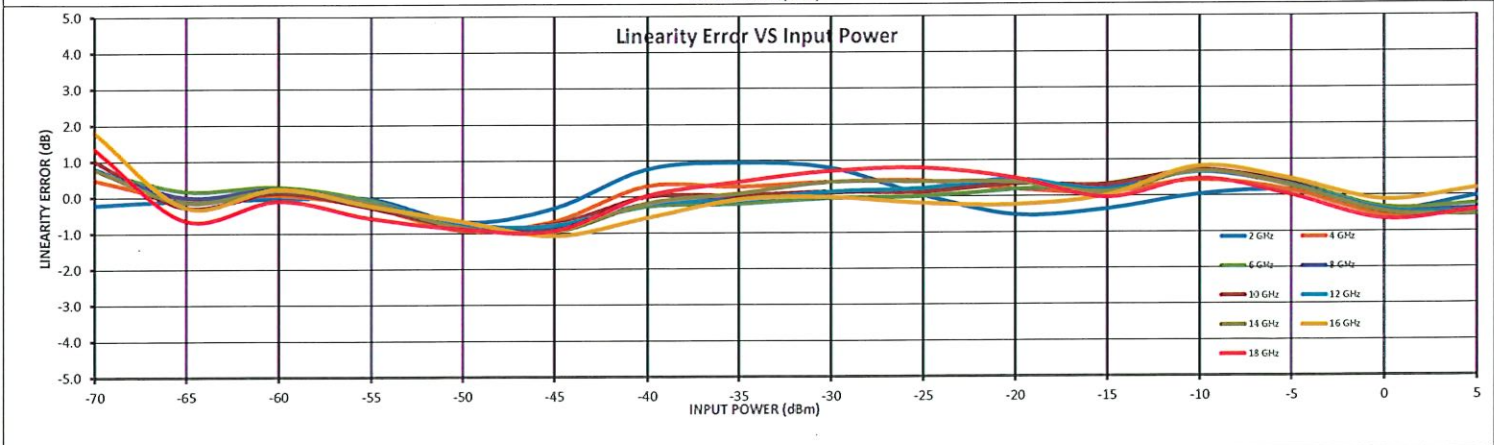
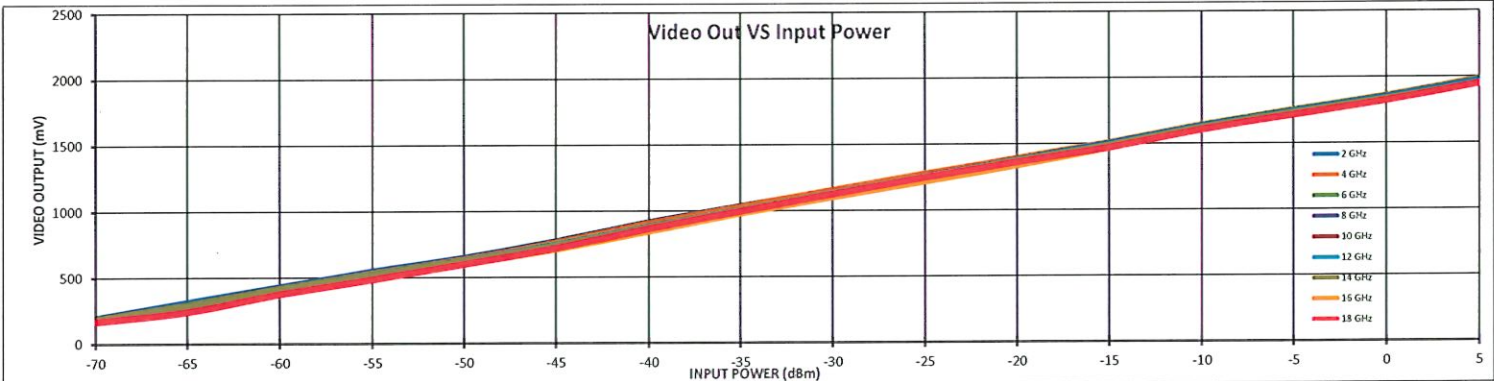


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL41944/2335
 Date: 8/31/2023
 Tested By: RCombs
 Test Temp: +85°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)
2 GHz	1827	23.2	0.9
4 GHz	1873	24.2	0.9
6 GHz	1856	24.2	0.8
8 GHz	1851	24.2	0.9
10 GHz	1858	24.4	1.0
12 GHz	1850	24.1	0.8
14 GHz	1842	24.0	1.0
16 GHz	1820	24.3	1.8
18 GHz	1836	24.3	1.4

RF Input Power (dBm)	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
-70	201	-5	-0.21
-65	320	-2	-0.08
-60	437	-1	-0.04
-55	552	-1	-0.04
-50	653	-18	-0.69
-45	778	-7	-0.31
-40	916	18	0.76
-35	1038	22	0.94
-30	1151	18	0.79
-25	1249	1	0.03
-20	1352	-9	-0.51
-15	1471	1	-0.36
-10	1597	3	0.04
-5	1714	-10	-0.42
0	1818	-1	-0.02
5	1943	-9	-0.37
190	298	2	0.48
200	422	-6	-0.04
210	535	-23	-0.93
220	640	-16	-0.68
230	767	7	0.29
240	912	7	0.27
250	1032	10	0.41
260	1157	5	0.43
270	1279	2	0.20
280	1394	8	0.10
290	1512	16	0.44
300	1642	3	0.14
310	1766	-9	-0.54
320	1860	-6	-0.37
330	1985	-6	-0.24
188	294	4	0.77
198	418	7	0.17
208	530	-2	-0.08
218	634	-20	-0.81
228	755	-20	-0.83
238	890	-7	-0.27
248	1013	-5	-0.20
258	1138	-1	-0.04
268	1260	5	0.00
278	1386	8	0.19
288	1510	17	0.32
298	1640	8	0.70
308	1753	-8	0.35
318	1858	-6	-0.33
328	1958	-9	-0.24
184	286	0	0.79
194	413	5	0.00
204	524	-4	0.22
214	629	-20	-0.16
224	750	-21	-0.83
234	887	-5	-0.85
244	1011	-2	-0.20
254	1137	3	0.11
264	1260	9	0.19
274	1385	6	0.38
284	1503	16	0.26
294	1635	7	0.67
304	1746	10	0.27
314	1850	-11	-0.43
324	1973	-9	-0.37
176	267	3	1.02
186	398	-7	-0.28
196	510	-7	0.12
206	619	-20	-0.29
216	743	-18	-0.83
226	883	0	-0.76
236	1006	1	-0.01
246	1130	3	0.03
256	1251	3	0.14
266	1379	8	0.12
276	1500	8	0.34
286	1631	17	0.12
296	1744	8	0.31
306	1847	-11	0.71
316	1968	-12	0.32
326	1968	-12	-0.46
336	1968	-12	-0.50
182	280	3	0.81
192	409	5	-0.13
202	521	-3	0.21
212	627	-18	-0.14
222	746	-19	-0.74
232	881	-5	-0.79
242	1004	-3	-0.20
252	1130	3	-0.12
262	1253	5	0.14
272	1379	11	0.22
282	1492	4	0.47
292	1625	16	0.17
302	1736	7	0.66
312	1840	-10	0.28
322	1960	-11	-0.41
332	1960	-11	-0.44
183	280	-4	0.78
193	406	5	-0.15
203	520	-4	0.20
213	623	-20	-0.17
223	740	-23	-0.85
233	879	-4	-0.97
243	1005	2	-0.18
253	1132	10	0.08
263	1252	10	0.41
273	1372	9	0.41
283	1485	3	0.39
293	1618	16	0.11
303	1728	6	0.68
313	1831	-11	0.26
323	1948	-13	-0.45
333	1948	-13	-0.54
166	236	6	1.81
176	370	-5	-0.28
186	480	-6	0.24
196	591	-16	-0.25
206	702	-26	-0.67
216	835	-14	-1.09
226	989	-2	-0.59
236	1092	0	-0.08
246	1209	-5	-0.02
256	1329	-6	-0.19
266	1457	0	-0.24
276	1597	20	0.01
286	1710	11	0.82
296	1817	-3	0.46
306	1946	5	-0.12
316	1946	5	0.19
326	1946	5	0.19
336	1946	5	0.19

Avg. Slope: 24.1 mV/dB Flatness dB: ±1.7 dB





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

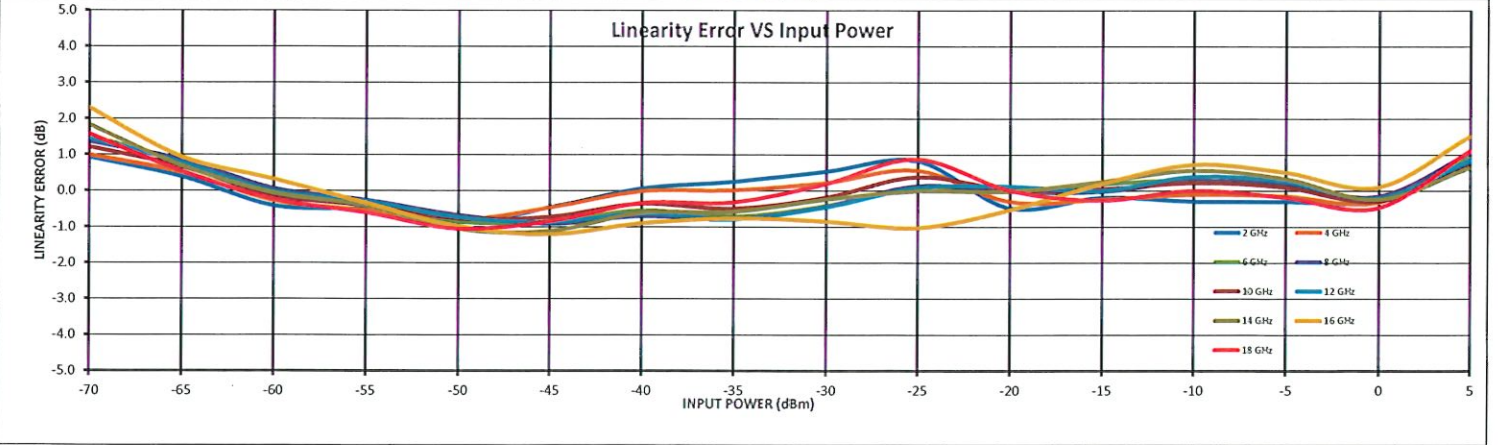
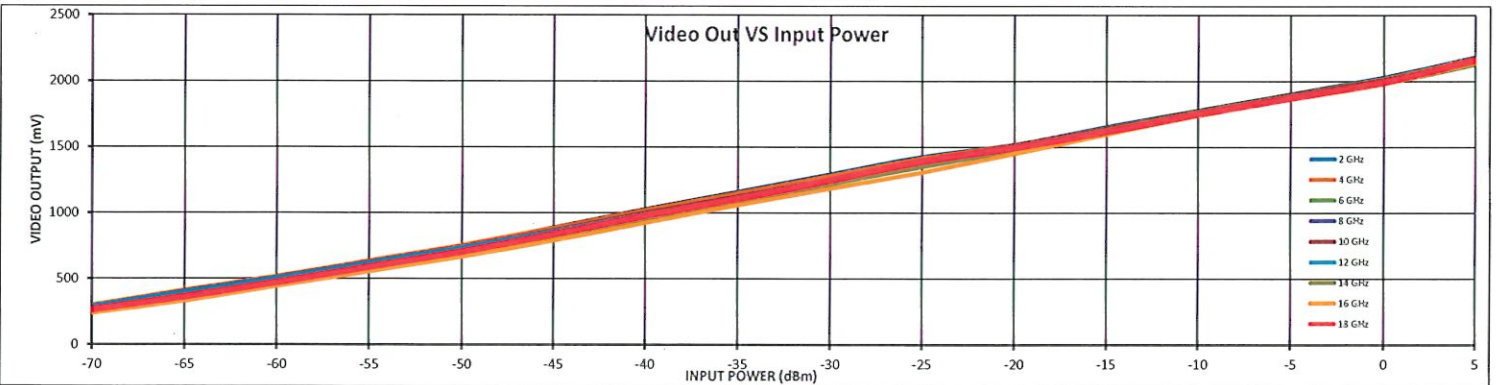
PL41944/2335

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL41944/2335
 Date: 8/31/2023
 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)	Measured Value (mV)	ERROR (mV)	LINEARITY ERROR (dB)
2 GHz	2034	25.3	0.9	287	400	506	630	747	884	1024	1155	1289	1422	1516	1650	1773	1900	2026	2180	Measured Value (mV)			
				23	10	-10	-13	-22	-12	2	6	14	21	-12	-5	-7	-7	-7	20	ERROR (mV)			
				0.93	0.39	-0.41	-0.52	-0.88	-0.46	0.06	0.25	0.54	0.83	-0.47	-0.18	-0.29	-0.29	-0.28	0.79	LINEARITY ERROR (dB)			
4 GHz	2023	25.1	1.0	293	406	512	631	749	883	1020	1148	1277	1411	1514	1641	1770	1894	2015	2171	Measured Value (mV)			
				25	13	-7	-14	-20	-12	0	0	6	14	-7	-6	-3	-4	-8	23	ERROR (mV)			
				0.99	0.51	-0.27	-0.54	-0.81	-0.47	-0.01	0.01	0.22	0.57	-0.30	-0.24	-0.10	-0.15	-0.32	0.91	LINEARITY ERROR (dB)			
6 GHz	2014	25.4	1.5	278	387	492	611	725	852	985	1109	1243	1383	1507	1639	1768	1891	2010	2164	Measured Value (mV)			
				38	21	-1	-9	-22	-22	-14	-18	-11	3	-1	5	8	4	4	23	ERROR (mV)			
				1.51	0.82	-0.04	-0.36	-0.86	-0.85	-0.55	-0.72	-0.42	0.11	-0.02	0.19	0.30	0.15	-0.17	0.91	LINEARITY ERROR (dB)			
8 GHz	2002	25.0	1.4	288	401	506	622	737	856	986	1108	1242	1381	1503	1627	1760	1882	1999	2154	Measured Value (mV)			
				34	22	2	-5	-17	-23	-18	-11	3	0	0	7	4	-4	-4	26	ERROR (mV)			
				1.37	0.87	0.07	-0.25	-0.67	-0.91	-0.70	-0.79	-0.44	0.13	-0.01	-0.02	0.28	0.17	-0.15	1.06	LINEARITY ERROR (dB)			
10 GHz	2014	25.2	1.2	283	395	500	619	736	853	988	1120	1254	1394	1511	1637	1768	1890	2007	2157	Measured Value (mV)			
				31	17	-4	-10	-19	-18	-9	-13	-5	10	1	1	6	3	-7	17	ERROR (mV)			
				1.22	0.67	-0.14	-0.40	-0.77	-0.72	-0.36	-0.50	-0.19	0.39	0.03	0.05	0.23	0.10	-0.28	0.68	LINEARITY ERROR (dB)			
12 GHz	1998	25.1	1.5	280	389	494	613	727	849	980	1101	1235	1374	1500	1622	1757	1879	1993	2145	Measured Value (mV)			
				35	20	0	-7	-18	-22	-16	-20	-11	2	3	0	10	7	-5	21	ERROR (mV)			
				1.45	0.78	-0.01	-0.28	-0.73	-0.87	-0.64	-0.79	-0.45	0.09	0.13	0.00	0.40	0.26	-0.20	0.85	LINEARITY ERROR (dB)			
14 GHz	1997	25.4	1.8	263	361	469	587	698	824	964	1092	1228	1361	1488	1622	1757	1878	1991	2141	Measured Value (mV)			
				47	18	-1	-10	-27	-28	-16	-15	-5	0	0	7	14	9	-6	16	ERROR (mV)			
				1.84	0.69	-0.06	-0.41	-1.07	-1.12	-0.61	-0.58	-0.24	-0.01	-0.01	0.26	0.57	0.33	-0.24	0.65	LINEARITY ERROR (dB)			
16 GHz	1977	25.3	2.3	236	329	442	554	666	789	925	1057	1184	1308	1449	1597	1739	1882	1980	2145	Measured Value (mV)			
				59	24	8	-9	-25	-31	-23	-20	-22	-27	-14	5	19	13	3	39	ERROR (mV)			
				2.31	0.94	0.32	-0.34	-0.99	-1.21	-0.91	-0.76	-0.85	-1.03	-0.53	0.20	0.72	0.51	0.10	1.51	LINEARITY ERROR (dB)			
18 GHz	2007	25.5	1.576	262	363	471	589	705	838	978	1106	1247	1392	1497	1618	1752	1875	1995	2163	Measured Value (mV)			
				40	14	-6	-15	-27	-22	-9	-8	5	22	0	-7	0	-5	-12	28	ERROR (mV)			
				1.58	0.54	-0.23	-0.60	-1.05	-0.85	-0.35	-0.33	0.19	0.88	0.01	-0.26	0.01	-0.18	-0.47	1.11	LINEARITY ERROR (dB)			
Avg. Slope: 25.3 mV/dB				1.1	1.5	1.4	1.5	1.7	1.9	1.9	1.9	2.1	2.3	1.3	1.1	0.7	0.8	0.9	0.8	Flatness dB: ±2.3 dB			

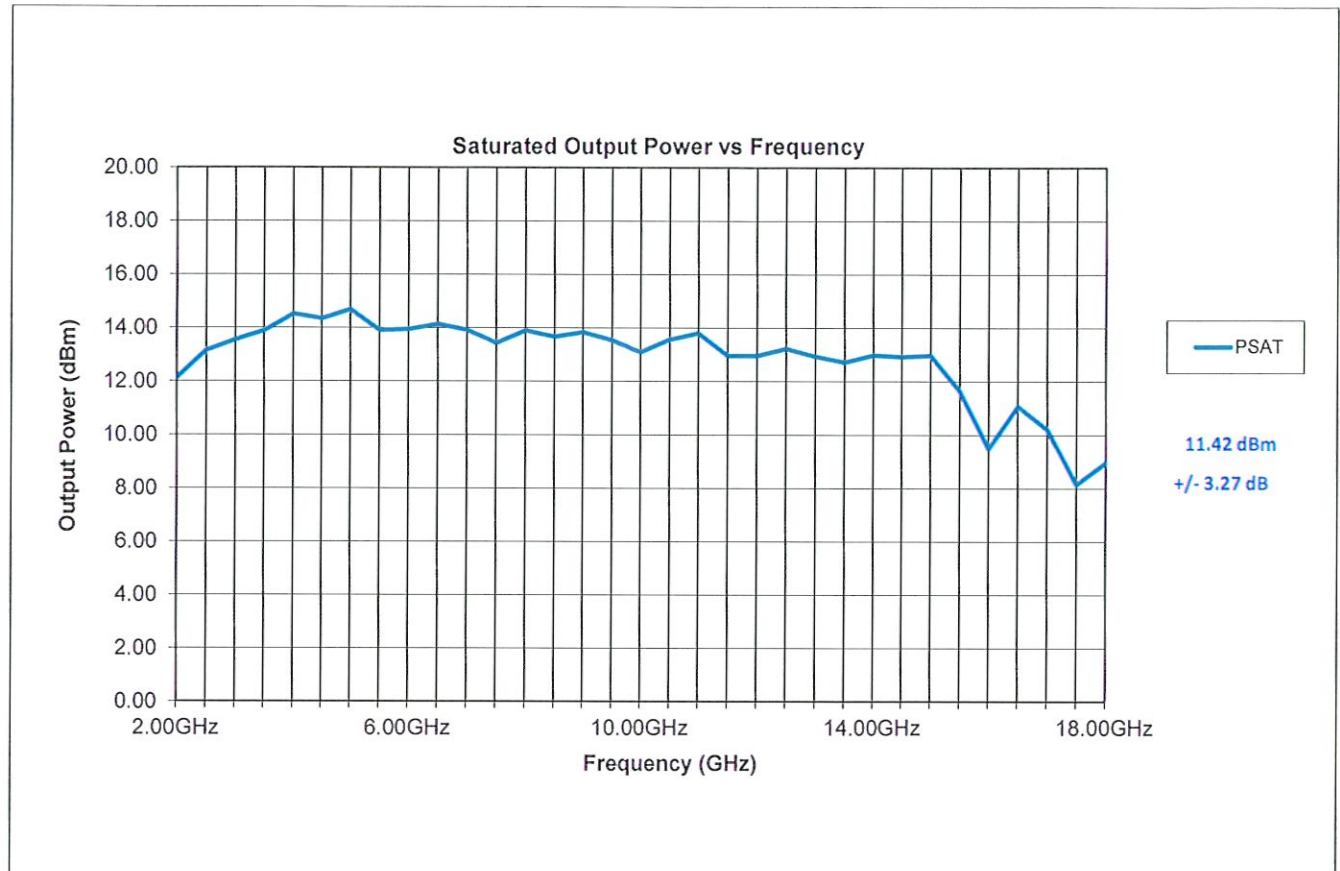




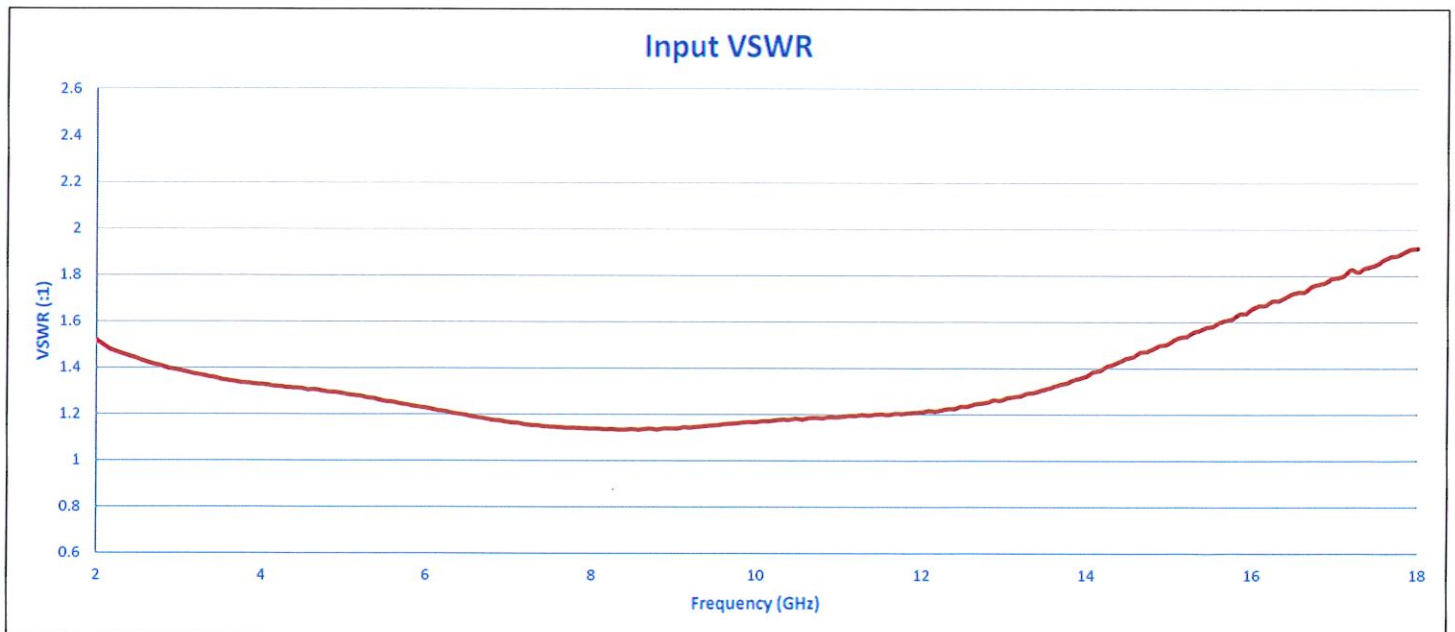
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL41944/2335

PSAT



INPUT VSWR

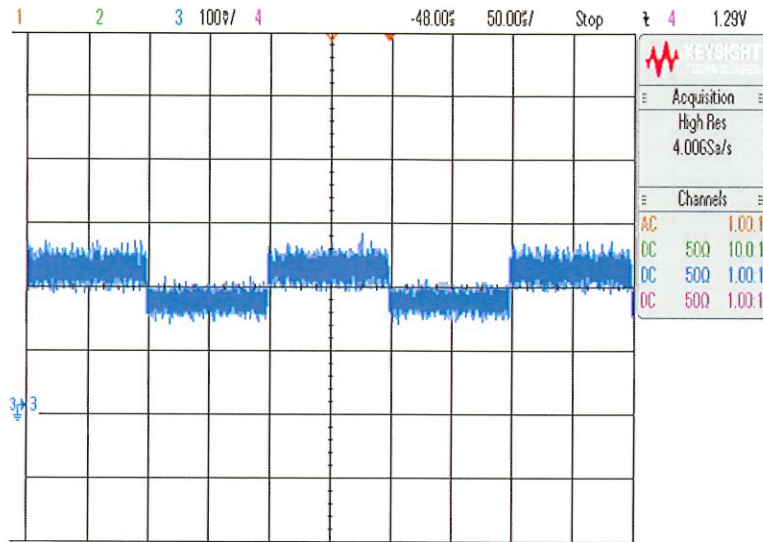




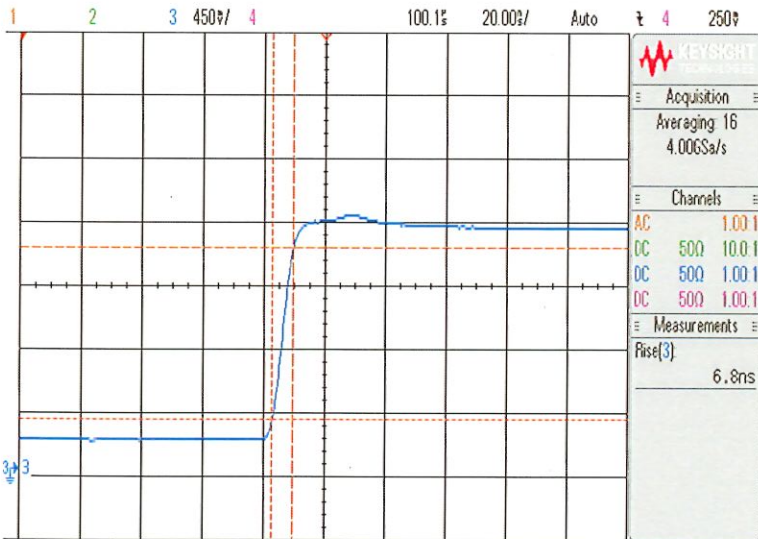
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL41944/2335

TSS



Rise Time



Fall Time

