



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

PL36331/2217

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/22/2022
 Serial No: PL36331/2217 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	±1.2 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	13.17 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.2 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 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 265 mA -12V @ 98 mA	PMI QA 2

QA/QC Approval:  _____ PMI QA 2 Date: 4/25/2022



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

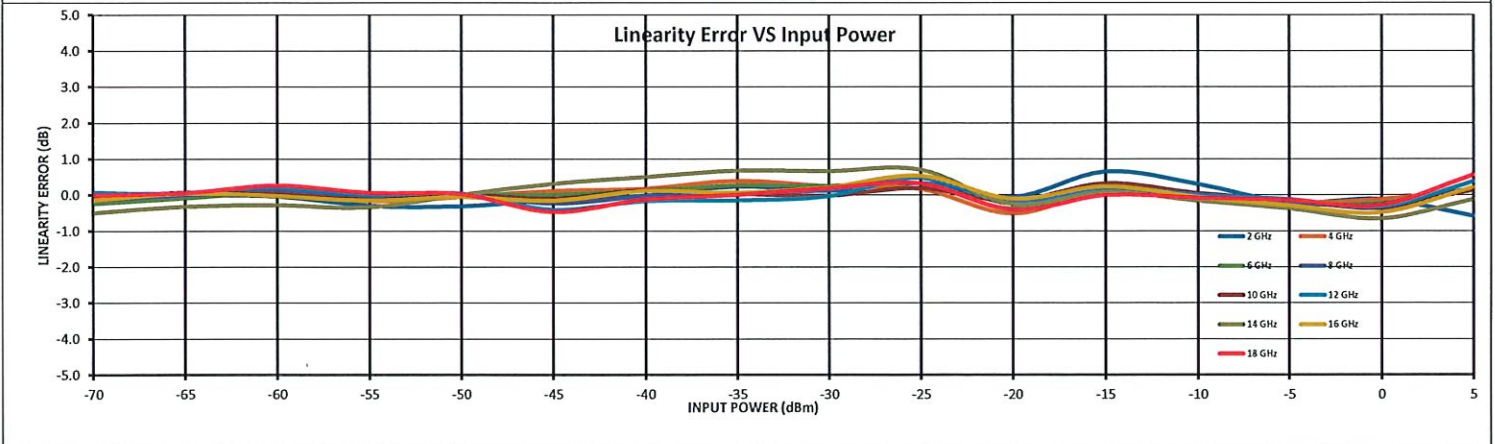
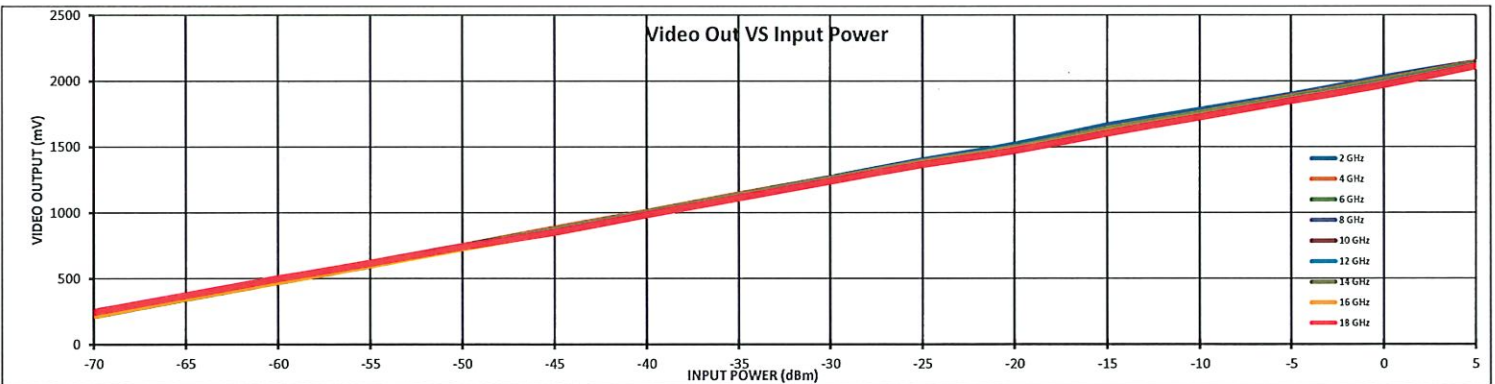
PL36331/2217

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36331/2217
Date: 4/22/2022
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	2031	25.6	0.7	241	367	494	616	743	876	1007	1141	1266	1399	1517	1664	1783	1897	2028	2144	Measured Value (mV)	
				2	0	-1	-8	-8	-3	0	6	3	9	-1	17	8	-5	-3	-15	4	Error (mV)
				0.08	0.00	-0.03	-0.29	-0.31	-0.12	-0.02	0.24	0.12	0.33	-0.06	0.66	0.31	-0.21	-0.12	-0.58	0.16	LINEARITY ERROR (dB)
4 GHz	2012	25.2	0.5	244	374	503	623	752	882	1009	1141	1263	1387	1496	1638	1757	1881	2009	2142	Measured Value (mV)	
				-5	-2	2	-4	-1	3	4	10	6	4	-13	3	-3	-5	-3	4	4	Error (mV)
				-0.22	-0.07	0.08	-0.17	-0.05	0.12	0.18	0.40	0.24	0.17	-0.51	0.12	-0.12	-0.22	-0.12	0.16	0.16	LINEARITY ERROR (dB)
6 GHz	2007	25.2	0.4	239	369	498	619	749	875	1003	1133	1258	1385	1494	1634	1752	1875	2001	2136	Measured Value (mV)	
				-6	-2	2	-3	1	1	3	7	6	8	-10	5	-3	-6	-6	3	3	Error (mV)
				-0.23	-0.08	0.07	-0.12	0.02	0.02	0.13	0.27	0.25	0.32	-0.38	0.19	-0.11	-0.24	-0.23	0.13	0.13	LINEARITY ERROR (dB)
8 GHz	1994	25.1	0.5	235	364	493	613	741	860	990	1118	1245	1379	1486	1623	1742	1863	1987	2124	Measured Value (mV)	
				-3	0	3	-2	1	-6	-1	1	4	12	-6	5	-1	-5	-7	5	5	Error (mV)
				-0.13	0.00	0.14	-0.07	0.04	-0.23	-0.03	0.06	0.15	0.48	-0.25	0.20	-0.05	-0.22	-0.29	0.19	0.19	LINEARITY ERROR (dB)
10 GHz	1992	25.3	0.4	217	348	474	596	726	850	982	1107	1232	1364	1481	1620	1740	1861	1982	2122	Measured Value (mV)	
				-3	2	1	-3	0	-3	3	1	0	5	-4	8	1	-4	-9	4	4	Error (mV)
				-0.11	0.08	0.03	-0.12	0.01	-0.10	0.13	0.04	-0.01	0.20	-0.16	0.32	0.04	-0.14	-0.36	0.16	0.16	LINEARITY ERROR (dB)
12 GHz	1985	24.9	0.5	246	371	499	618	743	856	986	1111	1238	1376	1483	1617	1737	1858	1977	2119	Measured Value (mV)	
				1	2	6	0	1	-10	-4	-4	-1	12	-5	4	0	-3	-8	9	9	Error (mV)
				0.04	0.06	0.23	0.00	0.05	-0.41	-0.17	-0.15	-0.03	0.48	-0.21	0.18	0.00	-0.12	-0.34	0.37	0.37	LINEARITY ERROR (dB)
14 GHz	1993	25.1	0.7	220	351	477	602	736	870	1000	1130	1255	1382	1484	1618	1738	1858	1977	2116	Measured Value (mV)	
				-13	-8	-7	-8	0	8	13	17	17	18	-6	2	-4	-9	-16	-3	3	Error (mV)
				-0.50	-0.32	-0.28	-0.34	0.02	0.32	0.50	0.68	0.67	0.71	-0.25	0.09	-0.16	-0.37	-0.66	-0.12	0.16	LINEARITY ERROR (dB)
16 GHz	1991	25.4	0.5	211	343	468	591	721	845	979	1105	1235	1370	1481	1617	1736	1857	1979	2124	Measured Value (mV)	
				-4	1	-1	-4	-1	-4	3	2	6	14	-3	6	-2	-7	-12	5	5	Error (mV)
				-0.14	0.05	-0.02	-0.15	-0.05	-0.15	0.12	0.07	0.22	0.54	-0.10	0.25	-0.06	-0.29	-0.49	0.22	0.22	LINEARITY ERROR (dB)
18 GHz	1976	24.7	0.6	245	370	499	617	740	852	984	1111	1239	1366	1471	1605	1727	1849	1969	2114	Measured Value (mV)	
				0	1	7	2	1	-12	-3	0	6	8	-10	0	-2	-3	-7	14	14	Error (mV)
				-0.01	0.06	0.27	0.07	0.03	-0.47	-0.12	0.00	0.19	0.32	-0.41	0.00	-0.08	-0.14	-0.28	0.56	0.56	LINEARITY ERROR (dB)
Avg. Slope: 25.2 mV/dB				0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.9	1.2	1.1	1	1.2	0.6	0.6	Flatness dB: ±1.2 dB





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

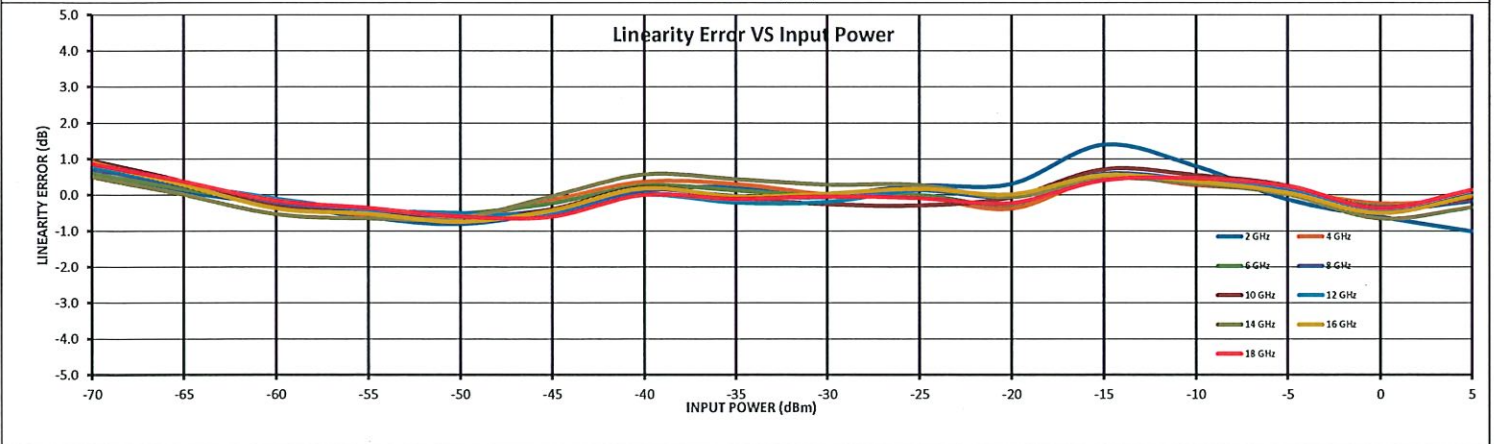
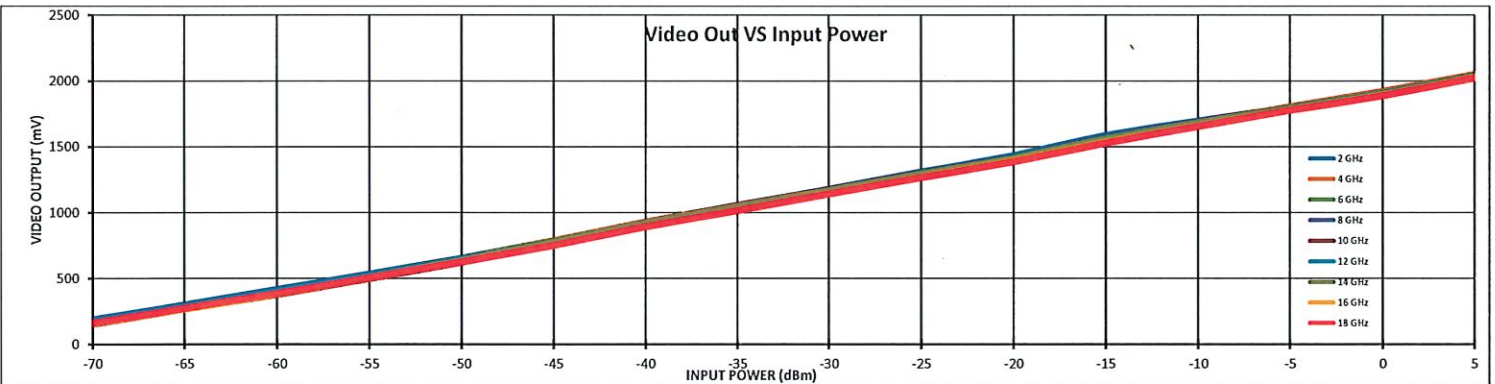
PL36331/2217

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36331/2217
 Date: 4/22/2022
 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	1933	25.1	1.4	194	306	422	539	659	793	933	1061	1181	1313	1439	1592	1702	1804	1918	2033	Measured Value (mV)	
				16	2	-6	-15	-20	-11	3	6	1	7	8	35	20	-3	-15	-25		Error (mV)
				0.63	0.09	-0.25	-0.61	-0.80	-0.45	0.11	0.23	0.02	0.26	0.31	1.40	0.80	-0.12	-0.60	-1.01		LINEARITY ERROR (dB)
4 GHz	1932	25.3	0.6	178	294	411	528	653	791	931	1056	1174	1299	1417	1565	1686	1809	1926	2055	Measured Value (mV)	
				15	6	-5	-14	-16	-4	9	8	0	-1	-10	12	7	3	-6	-3		Error (mV)
				0.59	0.18	-0.21	-0.56	-0.63	-0.14	0.36	0.31	0.01	-0.05	-0.38	0.49	0.28	0.11	-0.24	-0.12		LINEARITY ERROR (dB)
6 GHz	1925	25.2	0.6	179	294	410	529	654	787	925	1047	1169	1296	1415	1561	1681	1802	1917	2048	Measured Value (mV)	
				16	4	-6	-12	-13	-6	7	3	-1	0	-7	14	8	3	-8	-3		Error (mV)
				0.60	0.17	-0.19	-0.50	-0.51	-0.23	0.26	0.13	-0.03	0.00	-0.26	0.55	0.32	0.12	-0.31	-0.12		LINEARITY ERROR (dB)
8 GHz	1914	25.2	0.7	165	279	393	513	636	767	908	1029	1155	1286	1407	1550	1672	1791	1904	2036	Measured Value (mV)	
				19	7	-6	-13	-15	-10	4	-1	-2	3	-1	15	10	3	-10	-4		Error (mV)
				0.74	0.26	-0.23	-0.50	-0.59	-0.40	0.16	-0.03	-0.06	0.14	-0.06	0.59	0.41	0.14	-0.39	-0.17		LINEARITY ERROR (dB)
10 GHz	1908	25.5	1.0	147	260	370	493	614	750	893	1013	1136	1263	1396	1544	1667	1787	1898	2033	Measured Value (mV)	
				26	10	-8	-12	-18	-10	5	-2	-7	-7	-2	18	14	7	-10	-2		Error (mV)
				0.97	0.38	-0.32	-0.48	-0.72	-0.40	0.21	-0.08	-0.26	-0.29	-0.07	0.72	0.55	0.26	-0.38	-0.09		LINEARITY ERROR (dB)
12 GHz	1907	25.0	0.8	176	289	404	521	644	768	906	1026	1152	1285	1405	1545	1668	1787	1897	2032	Measured Value (mV)	
				20	7	-2	-10	-12	-13	0	-5	-5	4	-1	13	11	5	-10	0		Error (mV)
				0.78	0.30	-0.10	-0.41	-0.49	-0.53	0.00	-0.21	-0.20	0.14	-0.04	0.51	0.43	0.20	-0.41	0.01		LINEARITY ERROR (dB)
14 GHz	1912	25.2	0.7	158	271	384	507	634	776	917	1040	1162	1288	1408	1545	1668	1786	1896	2030	Measured Value (mV)	
				13	0	-13	-16	-16	-1	14	11	7	7	-1	12	8	0	-17	-9		Error (mV)
				0.50	0.01	-0.53	-0.65	-0.63	-0.04	0.57	0.44	0.29	0.28	-0.06	0.47	0.32	0.02	-0.66	-0.34		LINEARITY ERROR (dB)
16 GHz	1911	25.5	0.9	147	259	369	493	615	751	894	1016	1146	1277	1401	1542	1665	1785	1898	2038	Measured Value (mV)	
				23	7	-10	-13	-19	-11	5	-1	4	0	14	10	2	-13	-1		Error (mV)	
				0.90	0.29	-0.37	-0.51	-0.74	-0.43	0.19	-0.04	0.04	0.17	0.02	0.55	0.38	0.07	-0.50	-0.02		LINEARITY ERROR (dB)
18 GHz	1895	25.1	0.9	160	273	385	506	625	751	891	1014	1141	1266	1388	1529	1656	1776	1886	2024	Measured Value (mV)	
				22	9	-4	-9	-16	-16	0	-3	-1	-2	6	10	12	6	-9	3		Error (mV)
				0.87	0.37	-0.16	-0.35	-0.59	-0.60	0.01	-0.11	-0.04	-0.08	-0.22	0.41	0.47	0.25	-0.36	0.14		LINEARITY ERROR (dB)
Avg. Slope: 25.2 mV/dB				0.9	0.9	1.1	0.9	0.9	0.9	0.8	0.9	0.9	1	1	1.2	0.9	0.6	0.8	0.6	Flatness dB: ±1.2 dB	





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

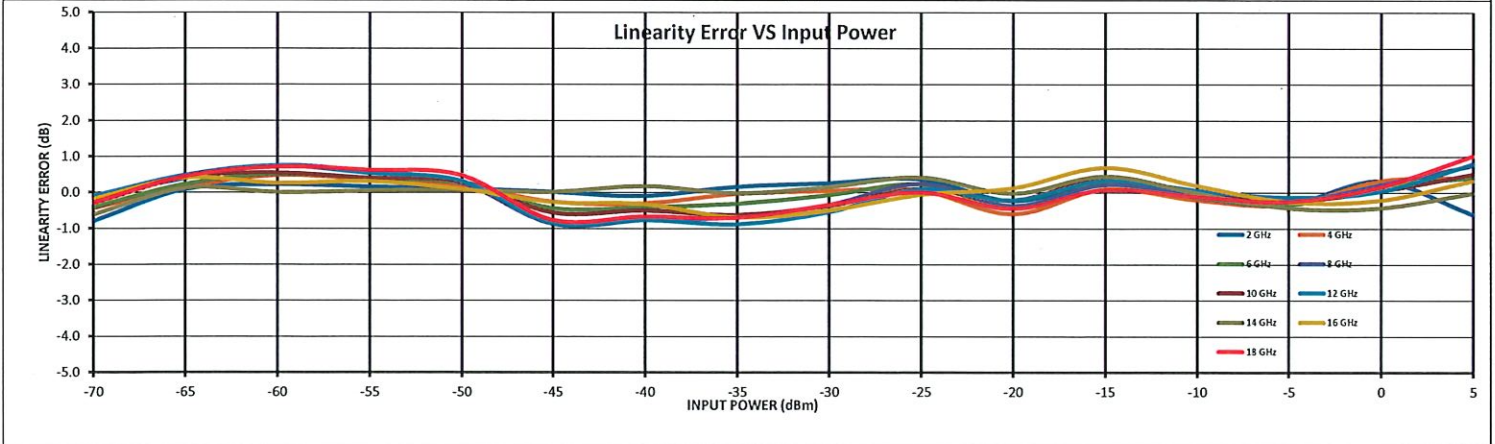
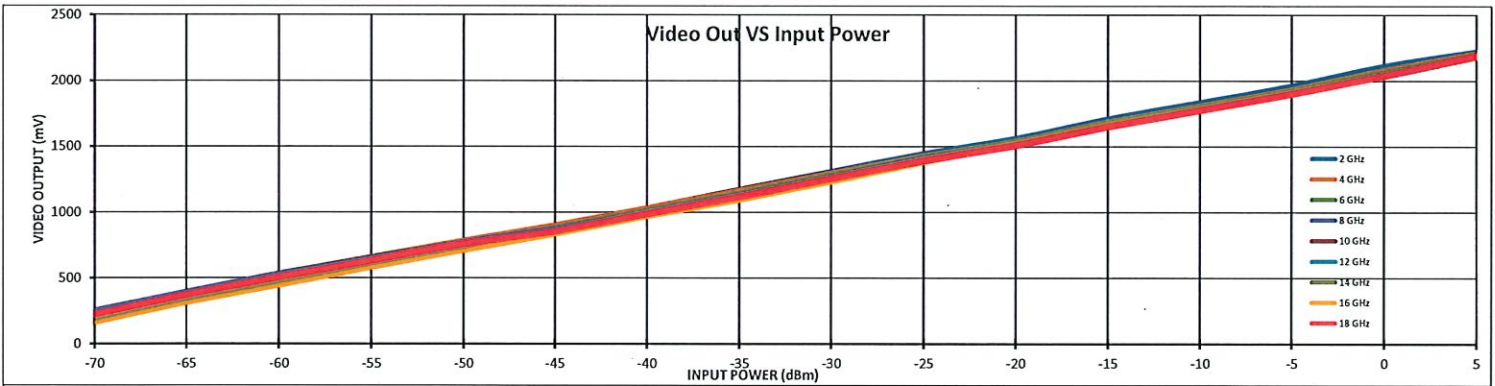
PL36331/2217

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36331/2217
 Date: 4/22/2022
 Tested By: RCombs
 Test Temp: -40°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																
2 GHz	2104	26.8	0.8	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
	Measured Value (mV)																			
	ERROR (mV)																			
4 GHz	2072	25.8	0.6	252	396	534	660	785	903	1031	1167	1298	1428	1540	1687	1808	1934	2081	2212	
	Measured Value (mV)																			
	ERROR (mV)																			
6 GHz	2064	25.9	0.5	238	385	522	648	774	886	1016	1149	1284	1422	1535	1681	1801	1926	2069	2205	
	Measured Value (mV)																			
	ERROR (mV)																			
8 GHz	2047	25.6	0.9	253	394	531	655	775	873	1004	1134	1271	1414	1526	1669	1790	1913	2053	2194	
	Measured Value (mV)																			
	ERROR (mV)																			
10 GHz	2049	26.0	0.6	220	369	502	628	756	864	995	1122	1259	1401	1523	1669	1790	1913	2050	2192	
	Measured Value (mV)																			
	ERROR (mV)																			
12 GHz	2038	25.7	0.9	238	381	516	639	762	860	991	1116	1253	1398	1519	1661	1783	1906	2039	2187	
	Measured Value (mV)																			
	ERROR (mV)																			
14 GHz	2054	26.6	0.6	173	326	456	591	725	856	994	1122	1259	1400	1521	1667	1788	1910	2043	2187	
	Measured Value (mV)																			
	ERROR (mV)																			
16 GHz	2050	27.0	0.7	156	307	438	575	704	829	962	1087	1227	1374	1514	1664	1785	1908	2044	2194	
	Measured Value (mV)																			
	ERROR (mV)																			
18 GHz	2037	25.8	1.023	224	372	508	635	760	857	988	1116	1254	1392	1510	1652	1776	1901	2041	2192	
	Measured Value (mV)																			
	ERROR (mV)																			
Avg. Slope: 26.1 mV/dB				1.8	1.7	1.8	1.6	1.6	1.4	1.3	1.6	1.6	1.4	1	1.1	1.1	1.2	1.4	0.7	Flatness dB: ±1.8 dB

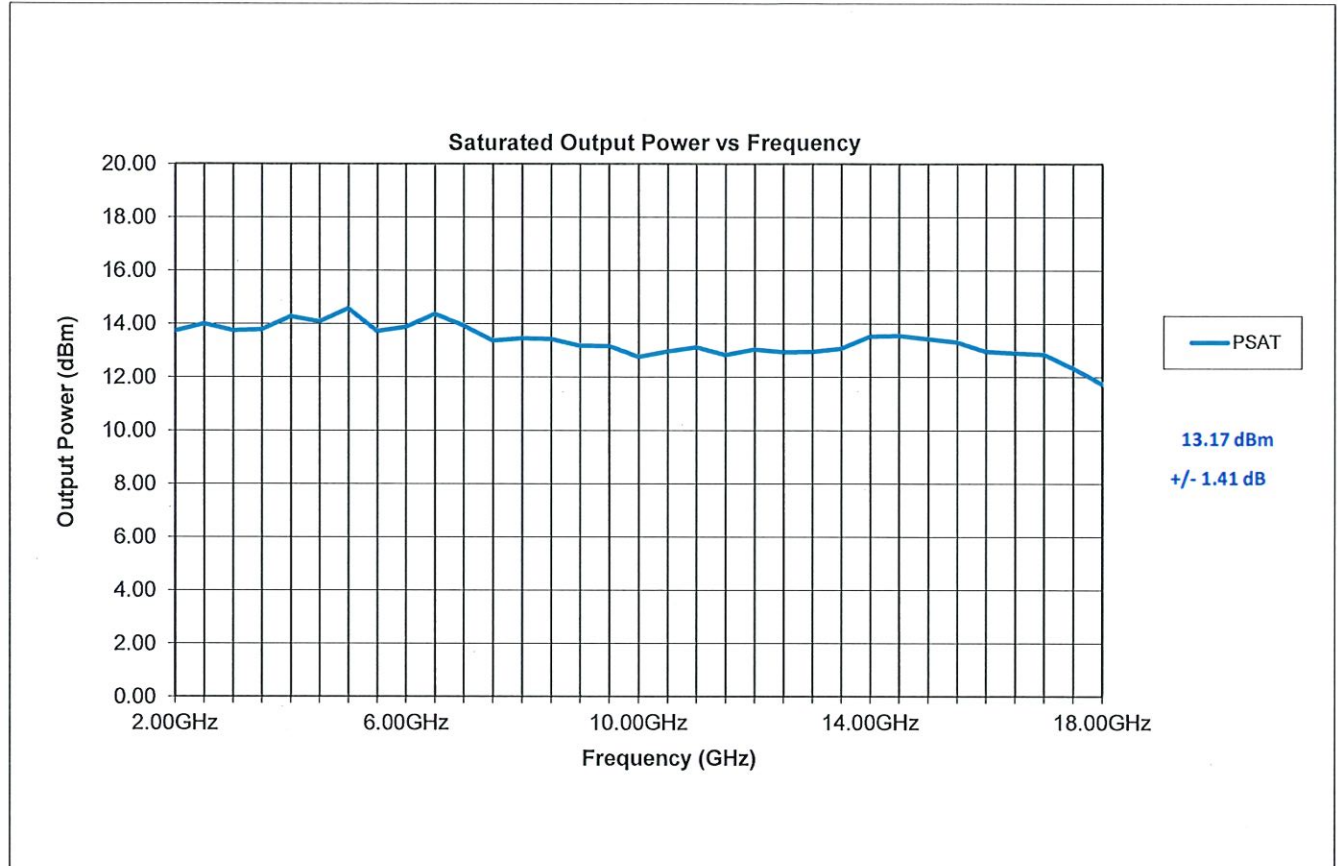




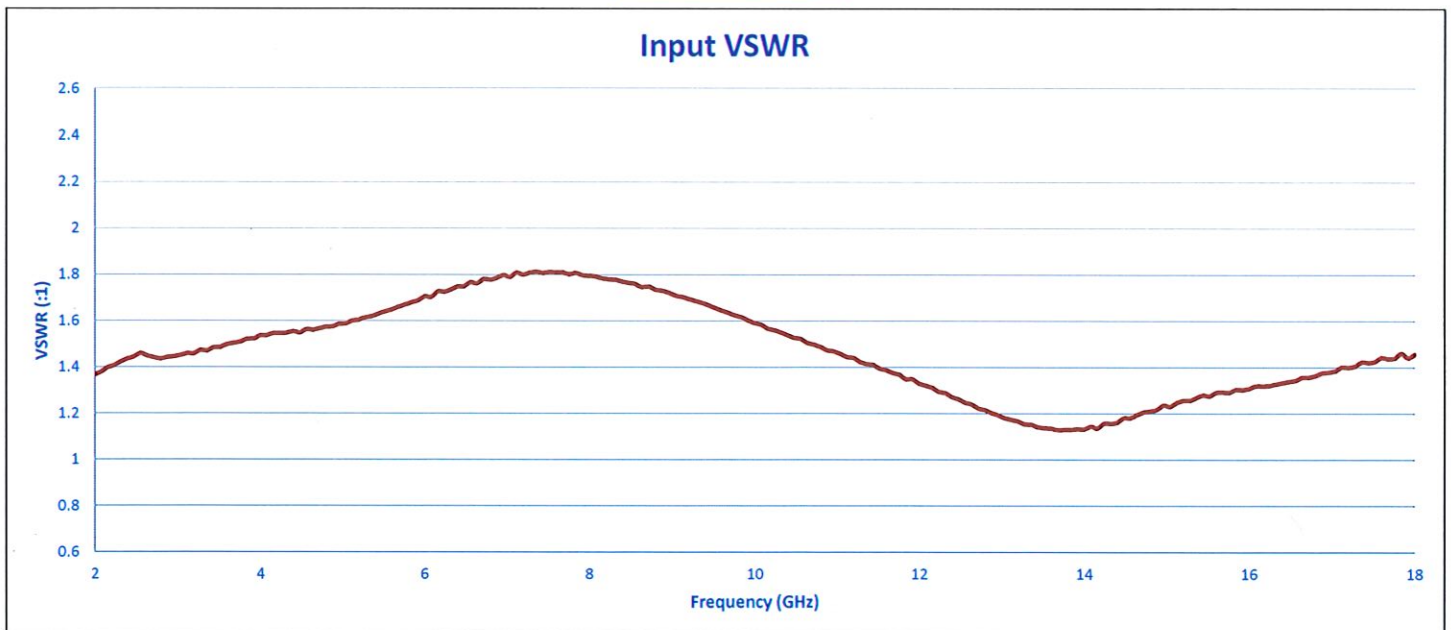
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36331/2217

PSAT



INPUT VSWR

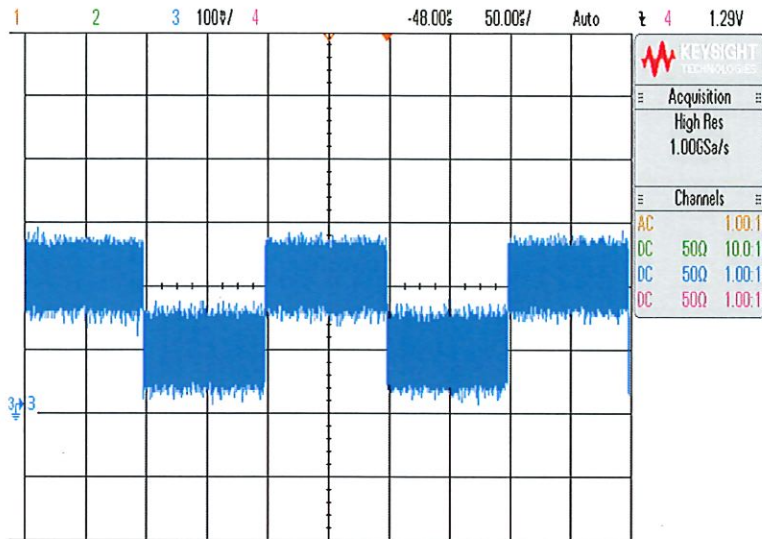




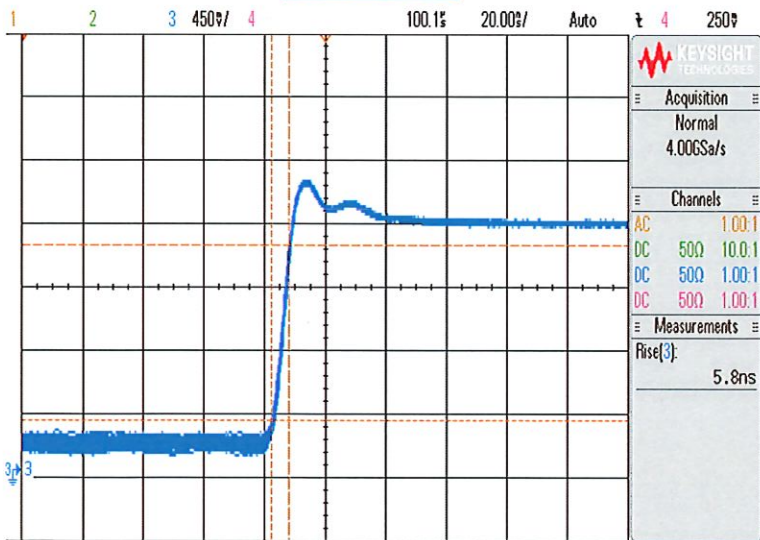
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36331/2217

TSS



Rise Time



Fall Time

