



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

PL38727/2248

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 12/13/2022
 Serial No: PL38727/2248 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)	1.7:1 (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	24.8 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)	±1.1 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.5 ns	
12	Recovery Time:	60 ns Typical	54.8 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 257 mA -12V @ 97 mA	PMI QA2

QA/QC Approval: _____

PMI
QA2

Date: 12/16/2022



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

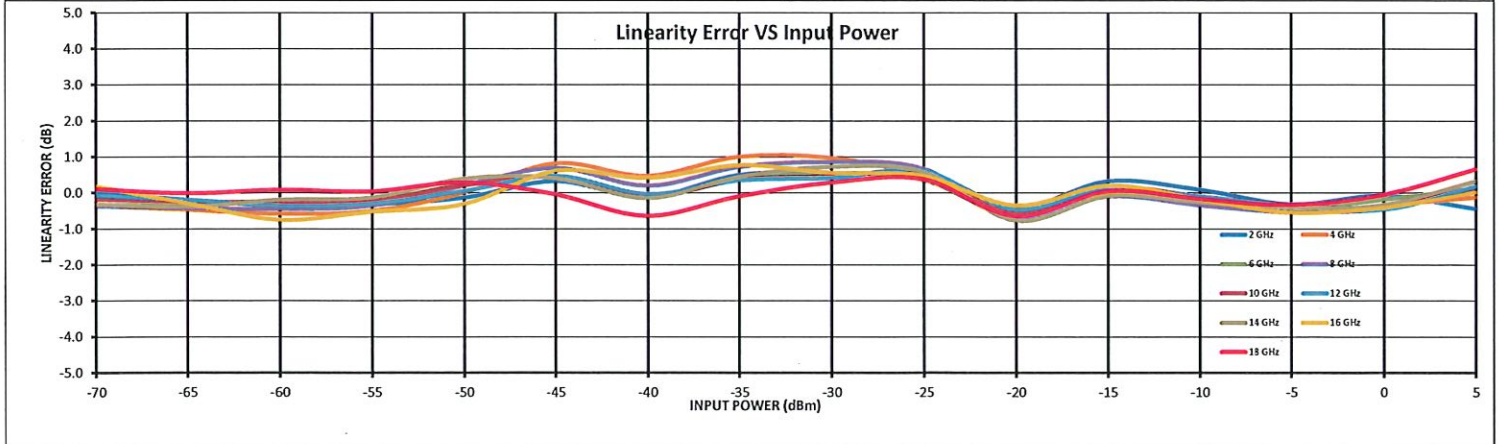
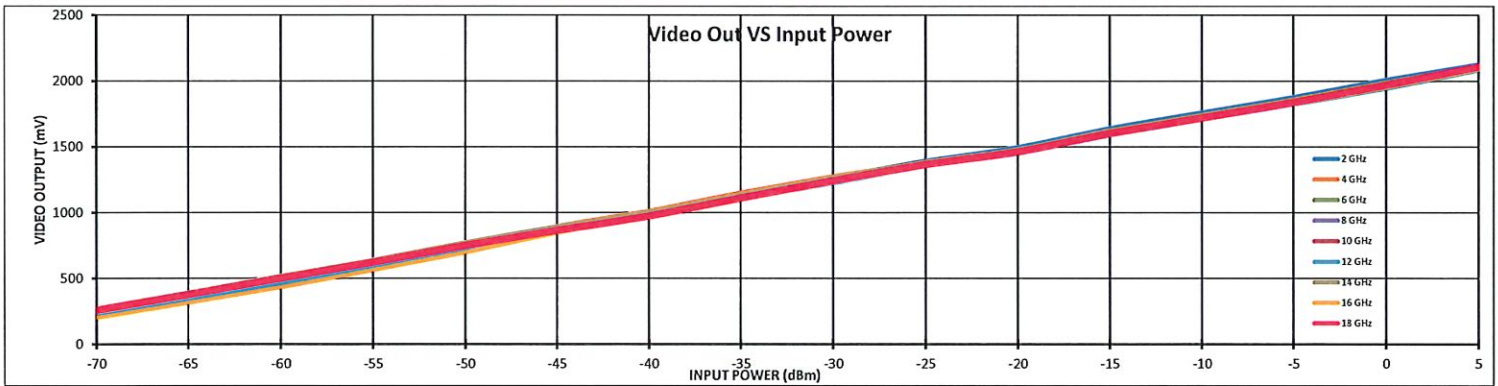
PL38727/2248

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL38727/2248
Date: 12/13/2022
Tested By: RCombs
Test Temp: +25°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)																
2 GHz	2010	25.2	0.5	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	247	368	491	617	748	885	1000	1141	1268	1391	1496	1641	1761	1876	2008	2125	2010	-11	-0.43
																	247	368	491	617	748	885	1000	1141	1268	1391	1496	1641	1761	1876	2008	2125	2010	-11	-0.43			
																	0	-5	-8	-8	-3	9	-3	13	14	10	-10	9	3	-8	-2	-11	2010	-11	-0.43			
																	0.00	-0.18	-0.32	-0.31	-0.12	0.34	-0.10	0.51	0.54	0.41	-0.41	0.34	0.10	-0.31	-0.06	-0.43	2010	-11	-0.43			
4 GHz	1995	24.9	1.0	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	242	364	486	612	750	895	1010	1148	1272	1384	1480	1622	1740	1857	1987	2117	1995	-3	-0.12
																	242	364	486	612	750	895	1010	1148	1272	1384	1480	1622	1740	1857	1987	2117	1995	-3	-0.12			
																	-9	-11	-14	-12	1	21	12	25	24	11	-17	1	-6	-13	-8	-3	1995	-3	-0.12			
																	-0.36	-0.46	-0.57	-0.50	0.02	0.83	0.48	1.01	0.97	0.46	-0.68	0.03	-0.24	-0.54	-0.34	-0.12	1995	-3	-0.12			
6 GHz	1987	24.7	0.6	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	257	378	502	626	760	888	998	1135	1261	1380	1479	1620	1737	1854	1983	2114	1987	4	0.14
																	257	378	502	626	760	888	998	1135	1261	1380	1479	1620	1737	1854	1983	2114	1987	4	0.14			
																	-4	-7	-5	-5	6	11	-3	11	14	9	-15	3	-3	-10	-4	4	1987	4	0.14			
																	-0.18	-0.28	-0.21	-0.21	0.25	0.45	-0.12	0.44	0.56	0.37	-0.62	0.12	-0.14	-0.41	-0.18	0.14	1987	4	0.14			
8 GHz	1979	24.7	0.9	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	244	366	488	614	751	887	997	1134	1260	1379	1469	1607	1724	1843	1968	2107	1979	4	0.19
																	244	366	488	614	751	887	997	1134	1260	1379	1469	1607	1724	1843	1968	2107	1979	4	0.19			
																	-9	-10	-11	-9	5	17	5	18	21	17	-17	-2	-8	-13	-10	5	1979	4	0.19			
																	-0.36	-0.41	-0.44	-0.35	0.22	0.71	0.21	0.73	0.87	0.68	-0.69	-0.09	-0.33	-0.52	-0.42	0.19	1979	4	0.19			
10 GHz	1972	24.5	0.5	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	248	369	491	615	749	877	986	1121	1246	1370	1467	1607	1724	1841	1962	2098	1972	4	0.15
																	248	369	491	615	749	877	986	1121	1246	1370	1467	1607	1724	1841	1962	2098	1972	4	0.15			
																	-4	-6	-7	-5	5	11	-2	9	11	13	-13	4	-2	-8	-9	4	1972	4	0.15			
																	-0.17	-0.24	-0.27	-0.21	0.21	0.46	-0.10	0.37	0.46	0.52	-0.53	0.16	-0.09	-0.34	-0.38	0.15	1972	4	0.15			
12 GHz	1969	24.7	0.6	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	237	358	478	603	735	869	980	1113	1238	1367	1464	1602	1720	1837	1958	2097	1969	4	0.18
																	237	358	478	603	735	869	980	1113	1238	1367	1464	1602	1720	1837	1958	2097	1969	4	0.18			
																	-2	-5	-9	-7	2	12	-1	9	11	15	-11	4	-2	-9	-11	4	1969	4	0.18			
																	-0.07	-0.19	-0.35	-0.29	0.06	0.49	-0.02	0.36	0.43	0.62	-0.46	0.15	-0.10	-0.36	-0.45	0.18	1969	4	0.18			
14 GHz	1970	24.3	0.8	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	264	383	509	632	766	888	996	1132	1260	1378	1466	1604	1722	1839	1962	2100	1970	8	0.33
																	264	383	509	632	766	888	996	1132	1260	1378	1466	1604	1722	1839	1962	2100	1970	8	0.33			
																	-7	-9	-4	-3	10	10	-3	11	18	14	-18	-2	-6	-10	-8	8	1970	8	0.33			
																	-0.30	-0.38	-0.18	-0.12	0.40	0.42	-0.14	0.46	0.74	0.59	-0.76	-0.08	-0.25	-0.40	-0.32	0.33	1970	8	0.33			
16 GHz	1984	25.5	0.8	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	202	317	433	567	700	851	974	1110	1233	1358	1465	1607	1725	1843	1974	2113	1984	0	0.02
																	202	317	433	567	700	851	974	1110	1233	1358	1465	1607	1725	1843	1974	2113	1984	0	0.02			
																	5	-7	-19	-13	-8	16	11	20	14	12	-9	5	-4	-14	-10	0	1984	0	0.02			
																	0.19	-0.28	-0.74	-0.51	-0.30	0.62	0.42	0.78	0.57	0.48	-0.35	0.21	-0.17	-0.54	-0.39	0.02	1984	0	0.02			
18 GHz	1972	24.5	0.7	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	257	377	502	624	753	867	975	1111	1243	1368	1466	1606	1723	1841	1971	2111	1972	16	0.66
																	257	377	502	624	753	867	975	1111	1243	1368	1466	1606	1723	1841	1971	2111	1972	16	0.66			
																	3	0	2	1	7	-1	-16	-2	7	9	-15	2	-4	-8	-1	16	1972	16	0.66			
																	0.11	-0.01	0.09	0.05	0.30	-0.03	-0.64	-0.09	0.29	0.38	-0.64	0.06	-0.16	-0.33	-0.05	0.66	1972	16	0.66			
Avg. Slope: 24.8 mV/dB				1.3 1.3 1.5 1.3 1.3 0.9 0.7 0.8 0.8 0.7 0.7 0.8 0.8 0.8 0.8 1 0.6																Flatness dB: ±1.6 dB																		





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

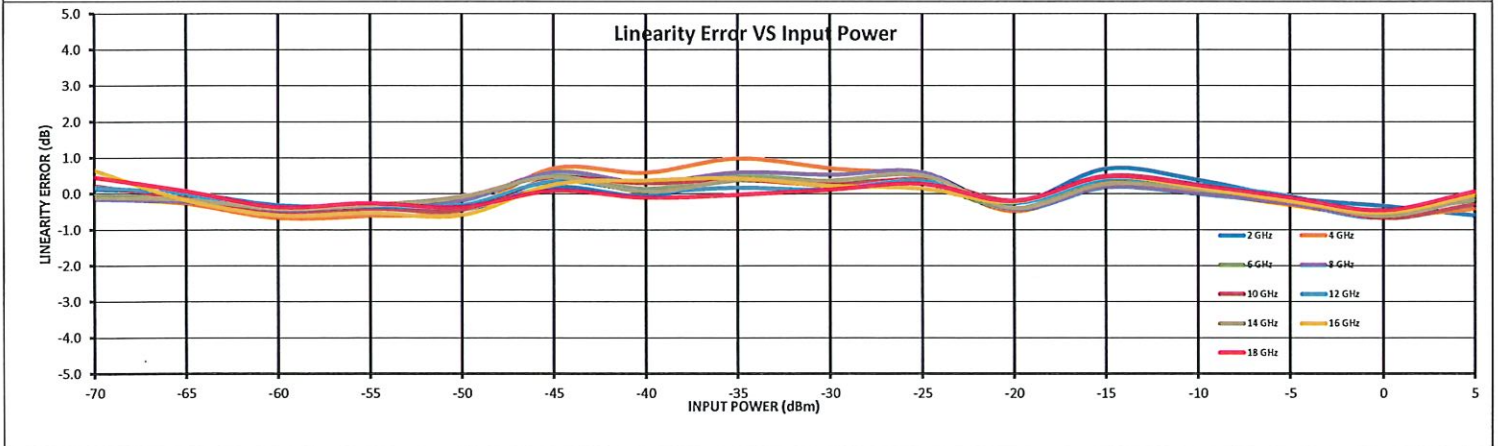
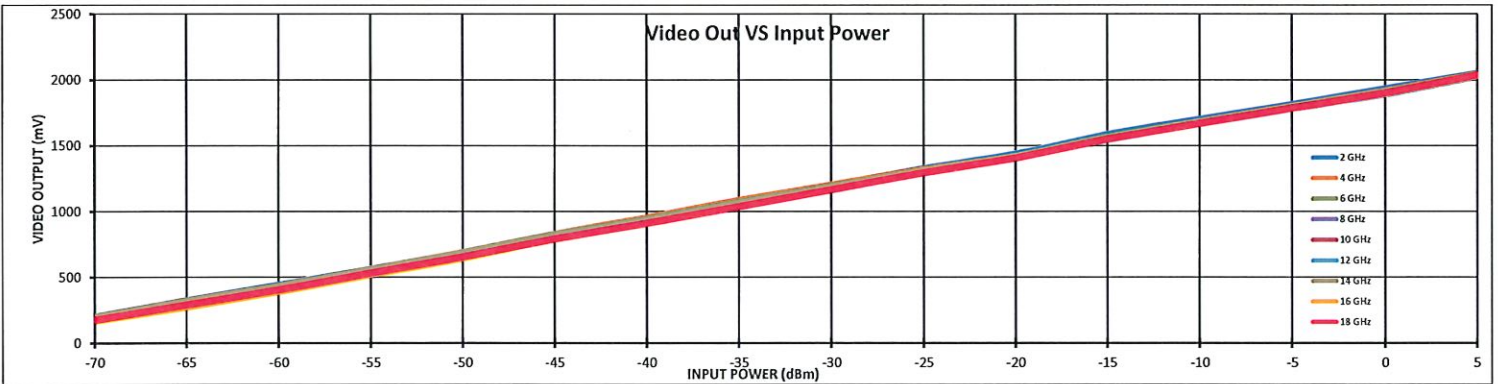
Log Transfer Over Frequency +85°C

PL38727/2248



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL38727/2248
Date: 12/13/2022
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	1949	24.9	0.7	210	332	448	571	694	834	952	1088	1208	1334	1445	1593	1710	1822	1941	2058	Measured Value (mV)	
				3	1	-8	-9	-11	5	-1	10	6	8	-6	18	10	-3	-8	-15		Error (mV)
				0.14	0.03	-0.31	-0.35	-0.43	0.20	-0.05	0.41	0.23	0.31	-0.26	0.71	0.40	-0.10	-0.32	-0.60		LINEARITY ERROR (dB)
4 GHz	1938	24.9	1.0	195	315	430	556	684	837	958	1092	1210	1328	1429	1573	1691	1806	1923	2052	Measured Value (mV)	
				-3	-6	-17	-15	-11	18	15	25	18	12	-12	9	1	-8	-15	-20		Error (mV)
				-0.12	-0.26	-0.66	-0.60	-0.45	0.71	0.59	0.99	0.72	0.48	-0.48	0.35	0.06	-0.31	-0.60	-0.41		LINEARITY ERROR (dB)
6 GHz	1930	24.6	0.5	207	328	444	568	696	836	950	1082	1201	1323	1428	1572	1688	1802	1919	2049	Measured Value (mV)	
				-1	-3	-10	-9	-4	13	4	12	9	8	-10	10	3	-5	-11	-4		Error (mV)
				-0.05	-0.12	-0.41	-0.38	-0.16	0.53	0.15	0.50	0.35	0.32	-0.41	0.41	0.13	-0.21	-0.46	-0.18		LINEARITY ERROR (dB)
8 GHz	1919	24.6	0.7	197	318	434	558	687	829	945	1075	1196	1320	1418	1556	1674	1790	1903	2040	Measured Value (mV)	
				-4	-5	-12	-10	-5	15	8	15	13	15	-10	5	0	-6	-16	-2		Error (mV)
				-0.14	-0.21	-0.60	-0.42	-0.19	0.62	0.31	0.60	0.54	0.61	-0.42	0.19	0.00	-0.26	-0.66	-0.07		LINEARITY ERROR (dB)
10 GHz	1913	24.8	0.7	179	295	408	536	660	805	926	1053	1174	1302	1412	1553	1671	1786	1896	2030	Measured Value (mV)	
				6	-3	-14	-10	-11	10	7	10	6	10	-4	13	7	-2	-17	-7		Error (mV)
				0.22	-0.12	-0.56	-0.40	-0.44	0.42	0.30	0.40	0.25	0.40	-0.18	0.51	0.27	-0.10	-0.67	-0.29		LINEARITY ERROR (dB)
12 GHz	1910	24.6	0.6	191	309	423	547	671	811	927	1053	1174	1303	1411	1551	1670	1785	1895	2031	Measured Value (mV)	
				5	0	-10	-8	-8	9	2	5	3	9	-6	10	6	-1	-15	-2		Error (mV)
				0.19	0.01	-0.39	-0.33	-0.31	0.36	0.09	0.18	0.12	0.37	-0.25	0.42	0.26	-0.06	-0.61	-0.06		LINEARITY ERROR (dB)
14 GHz	1913	24.4	0.6	201	322	438	562	690	826	938	1068	1190	1315	1415	1554	1672	1788	1898	2033	Measured Value (mV)	
				-2	-4	-10	-7	-2	12	2	9	9	13	-9	7	3	-3	-16	-3		Error (mV)
				-0.08	-0.15	-0.41	-0.30	-0.07	0.48	0.07	0.38	0.38	0.52	-0.39	0.28	0.14	-0.13	-0.62	-0.10		LINEARITY ERROR (dB)
16 GHz	1921	25.4	0.7	160	266	382	511	636	785	915	1043	1165	1290	1408	1552	1672	1789	1908	2047	Measured Value (mV)	
				17	-4	-15	-13	-15	7	10	11	6	4	-5	12	5	-5	-13	-1		Error (mV)
				0.66	-0.16	-0.59	-0.52	-0.59	0.27	0.38	0.44	0.23	0.16	-0.21	0.46	0.19	-0.20	-0.51	-0.03		LINEARITY ERROR (dB)
18 GHz	1914	24.8	0.5	178	293	407	534	656	793	913	1039	1168	1297	1410	1552	1670	1787	1902	2041	Measured Value (mV)	
				12	2	-9	-6	-9	2	-3	0	3	7	-5	12	6	-3	-12	2		Error (mV)
				0.47	0.09	-0.36	-0.25	-0.36	0.09	-0.10	-0.02	0.12	0.29	-0.19	0.48	0.24	-0.10	-0.46	0.07		LINEARITY ERROR (dB)
Avg. Slope: 24.8 mV/dB				1	1.3	1.3	1.2	1.2	1	0.9	1.1	0.9	0.9	0.7	0.9	0.8	0.7	0.9	0.6	Flatness dB: ±1.3 dB	





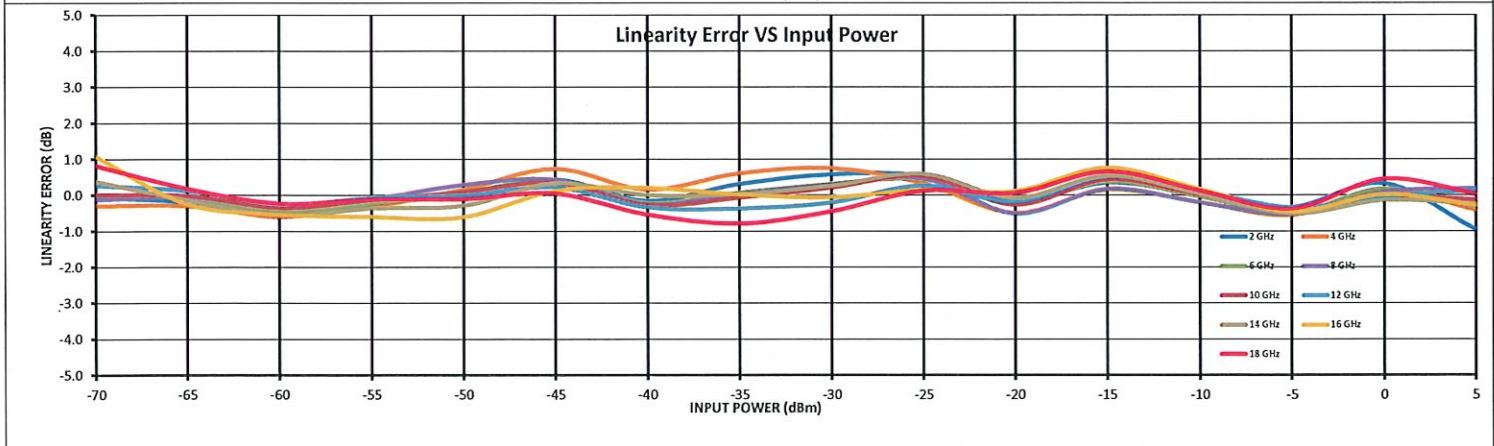
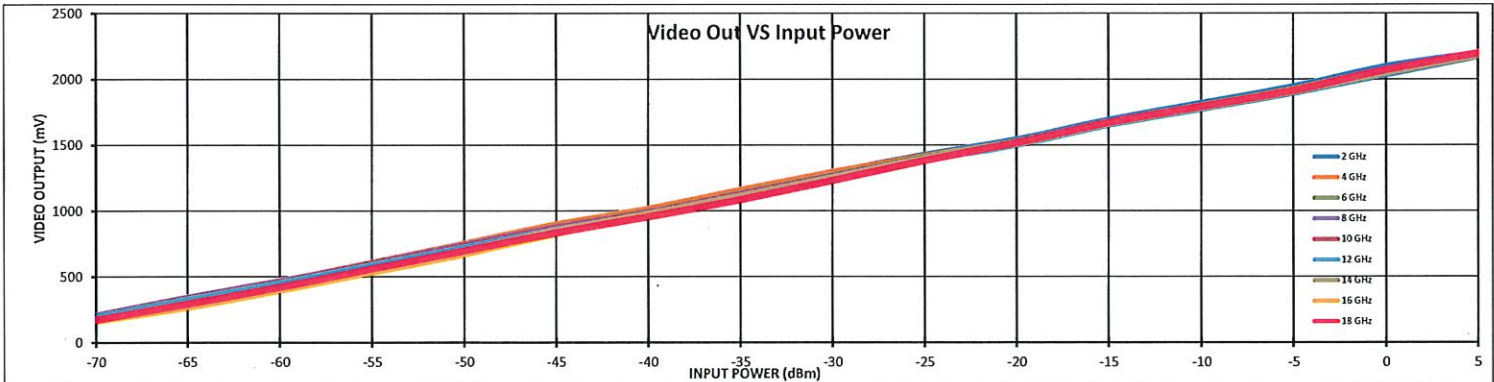
**SUMMARY TEST DATA
ON
SDLVA-6G18G-CD-2-OPT218
Log Transfer Over Frequency -40°C**

PL38727/2248



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL38727/2248
Date: 12/13/2022
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	0	5	RF Input Power (dBm)	
2 GHz	2094	27.1	1.0	198	329	454	600	740	888	1007	1155	1298	1432	1548	1698	1824	1950	2103	2203	
				-1	-5	-16	-5	-1	12	-4	9	16	15	-4	10	0	-9	9	-26	
				-0.05	-0.18	-0.59	-0.18	-0.03	0.44	-0.15	0.33	0.60	0.54	-0.16	0.36	0.02	-0.32	0.34	-0.95	
4 GHz	2075	26.5	0.8	215	347	472	611	756	904	1021	1165	1301	1422	1533	1682	1806	1928	2080	2197	
				-8	-8	-15	-8	4	20	4	16	20	9	-13	4	-5	-15	4	-11	
				-0.29	-0.29	-0.58	-0.31	0.16	0.74	0.17	0.62	0.76	0.34	-0.49	0.16	-0.19	-0.55	0.16	-0.40	
6 GHz	2070	26.7	0.5	205	336	459	598	739	882	998	1139	1279	1416	1531	1680	1803	1924	2075	2194	
				1	-1	-12	-6	2	12	-5	2	9	12	-6	10	-1	-13	5	-9	
				0.03	-0.05	-0.44	-0.23	0.09	0.44	-0.20	0.08	0.32	0.45	-0.21	0.39	-0.03	-0.48	0.19	-0.33	
8 GHz	2051	26.2	0.5	215	347	472	608	749	884	997	1136	1273	1409	1514	1663	1784	1907	2054	2188	
				-3	-1	-8	-3	8	12	-7	1	8	12	-13	5	-5	-14	3	5	
				-0.11	-0.04	-0.30	-0.10	0.30	0.44	-0.25	0.04	0.29	0.47	-0.50	0.18	-0.19	-0.52	0.10	0.20	
10 GHz	2052	26.4	0.5	207	339	462	599	737	875	991	1128	1267	1407	1518	1668	1789	1909	2051	2181	
				0	0	-9	-3	3	9	-7	-2	6	14	-7	11	-12	-1	-3		
				0.01	0.00	-0.35	-0.13	0.10	0.35	-0.28	-0.06	0.22	0.53	-0.26	0.44	0.02	-0.44	-0.03	-0.12	
12 GHz	2042	26.4	0.5	198	327	449	586	720	858	975	1107	1244	1388	1509	1659	1781	1901	2041	2178	
				7	4	-6	-2	0	6	-9	-9	-5	7	-5	14	3	-9	-1	4	
				0.28	0.14	-0.24	-0.06	0.00	0.23	-0.33	-0.36	-0.19	0.28	-0.17	0.53	0.12	-0.33	-0.04	0.15	
14 GHz	2056	27.0	0.6	180	301	424	564	701	852	978	1114	1255	1398	1515	1666	1787	1907	2052	2184	
				11	-3	-15	-9	-7	9	0	1	7	16	-2	15	1	-14	-4	-6	
				0.40	-0.13	-0.54	-0.35	-0.28	0.34	0.01	0.04	0.27	0.60	-0.06	0.55	0.04	-0.51	-0.13	-0.24	
16 GHz	2063	27.6	1.1	158	260	390	526	664	823	963	1096	1232	1376	1513	1669	1791	1912	2063	2193	
				30	-7	-14	-17	-17	4	6	1	-1	4	3	21	5	-12	1	-8	
				1.09	-0.24	-0.52	-0.60	-0.60	0.13	0.22	0.03	-0.05	0.15	0.12	0.77	0.18	-0.45	0.03	-0.27	
18 GHz	2063	27.3	0.831	177	296	421	560	696	837	958	1087	1233	1385	1519	1672	1794	1916	2075	2200	
				23	5	-6	-3	-3	1	-14	-21	-12	4	2	18	4	-10	12	1	
				0.83	0.19	-0.23	-0.11	-0.11	0.05	-0.53	-0.78	-0.44	0.13	0.06	0.66	0.13	-0.37	0.46	0.05	
Avg. Slope: 26.8 mV/dB				1.1	1.6	1.5	1.6	1.7	1.5	1.2	1.5	1.3	1	0.7	0.7	0.8	0.9	1.2	0.6	Flatness dB: ±1.7 dB

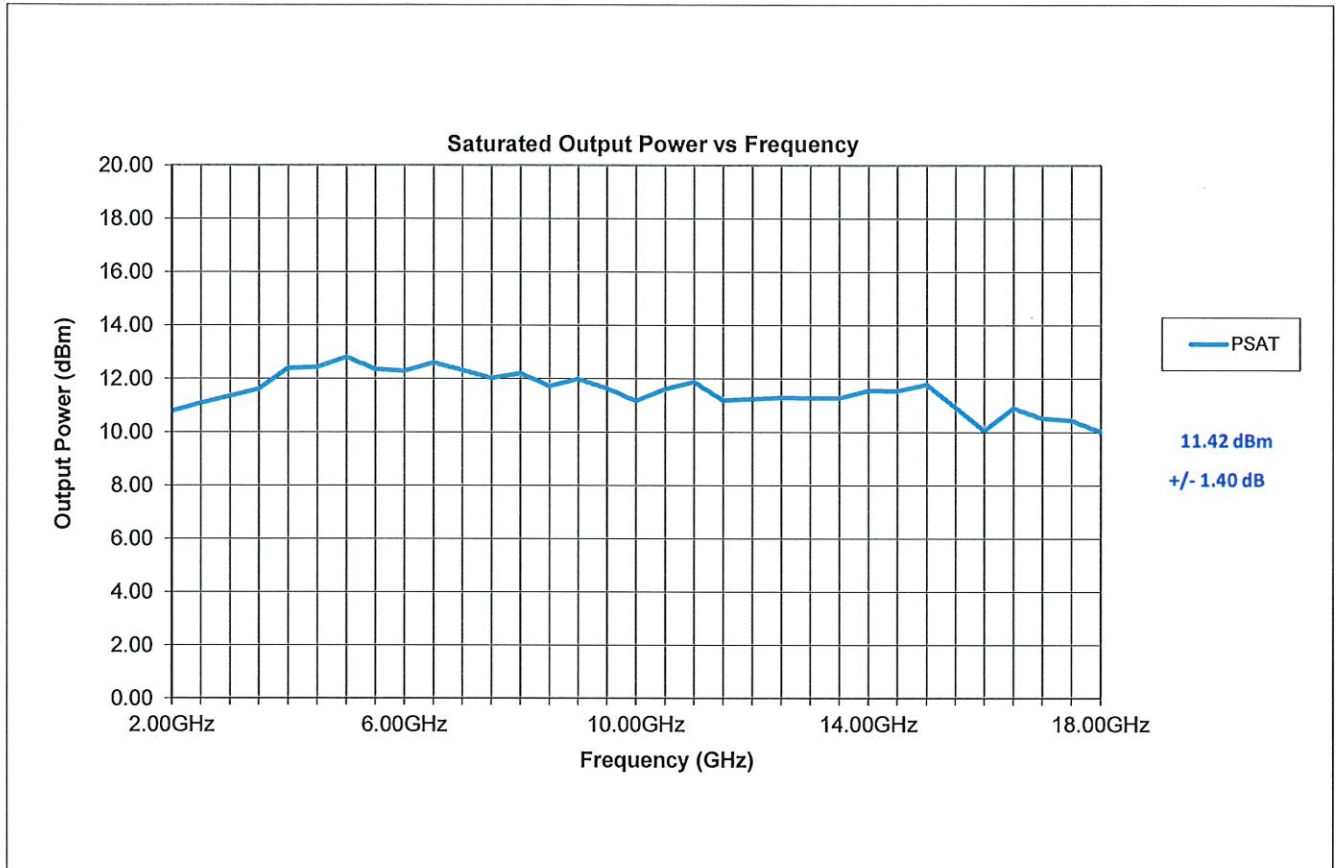




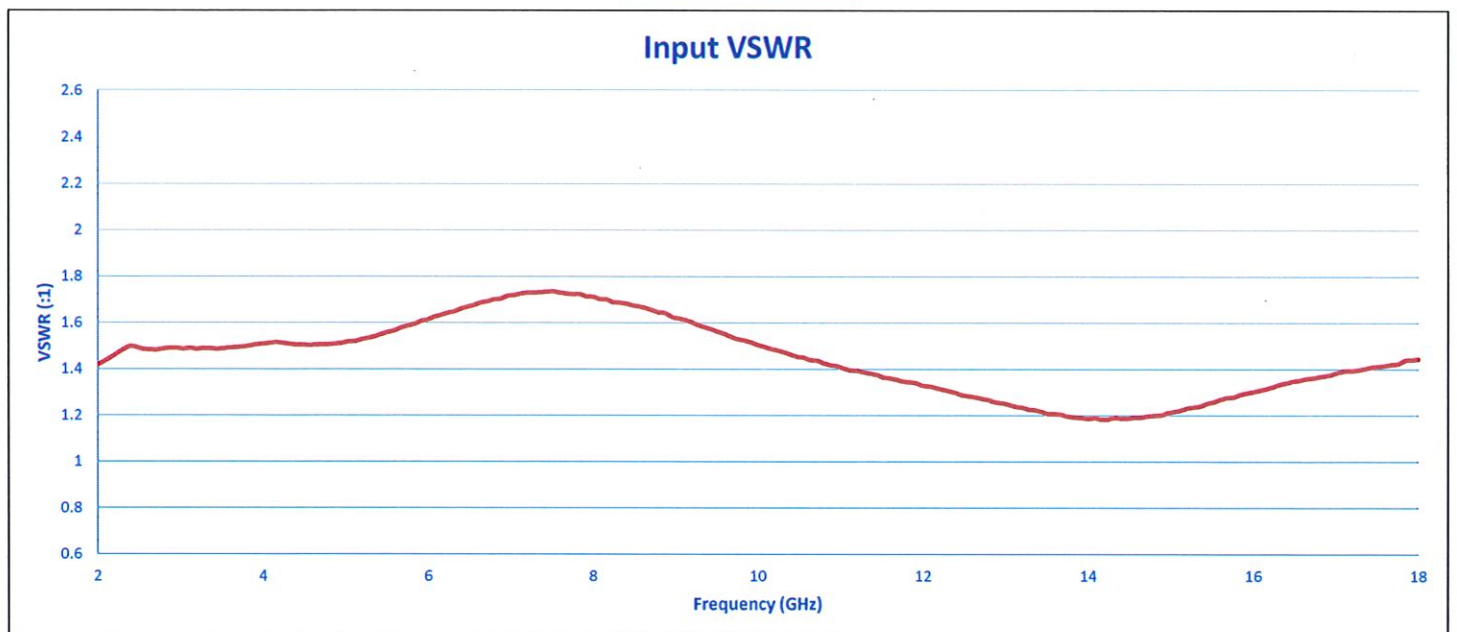
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL38727/2248

PSAT



INPUT VSWR

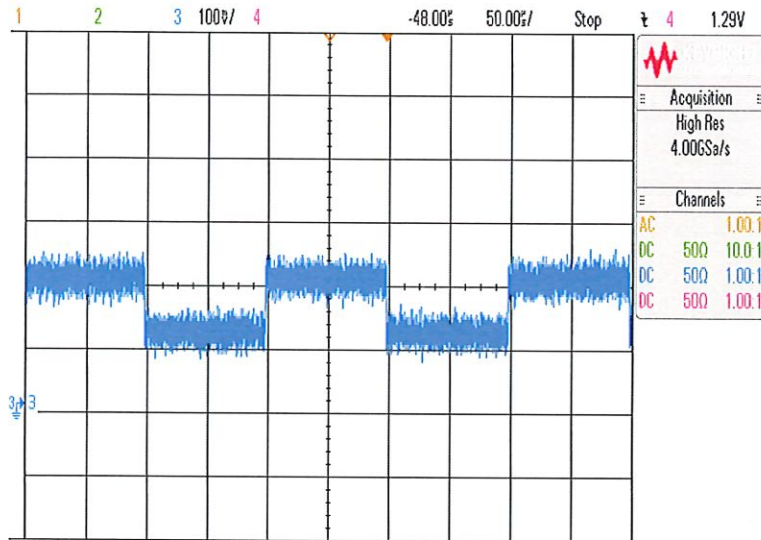




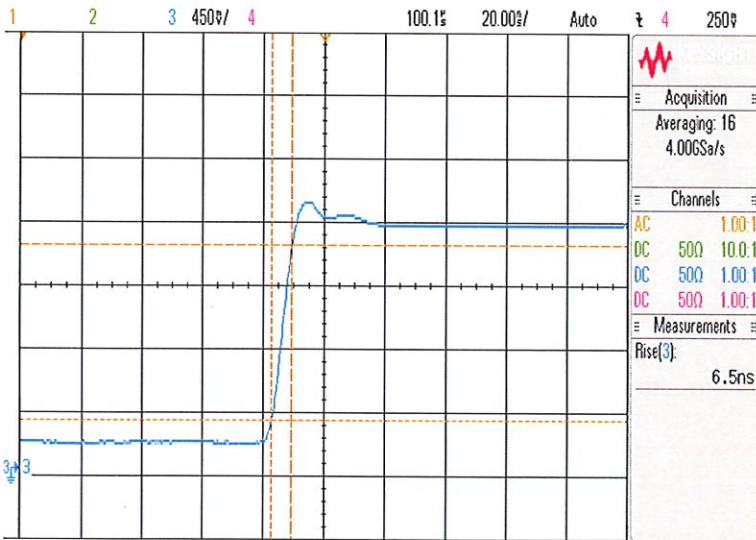
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL38727/2248

TSS



Rise Time



Fall Time

