



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

PL37927/2239

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/25/2022
 Serial No: PL37927/2239 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	±1.8 dB 25°C See Plots		
3	TSS:	-70 dBm Minimum	-72 dBm		
4	VSWR:	2.0:1 (Input)	2:1 (Input)		
5	Power Input:	+17 dBm CW Maximum	Pass		
6	RF Out:	+13 dBm ±3 dB Typical	11.31 dBm Avg.		
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.4 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)	±2.1 dB See Plots		
10	Pulse Range:	30 ns to CW	Pass		
11	Rise Time:	10 ns (6 ns Typical)	7.8 ns		
12	Recovery Time:	60 ns Typical	45.8 ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 256 mA -12V @ 96 mA		PMI QA2

QA/QC Approval: PMI QA2 Date: 10/27/2022



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

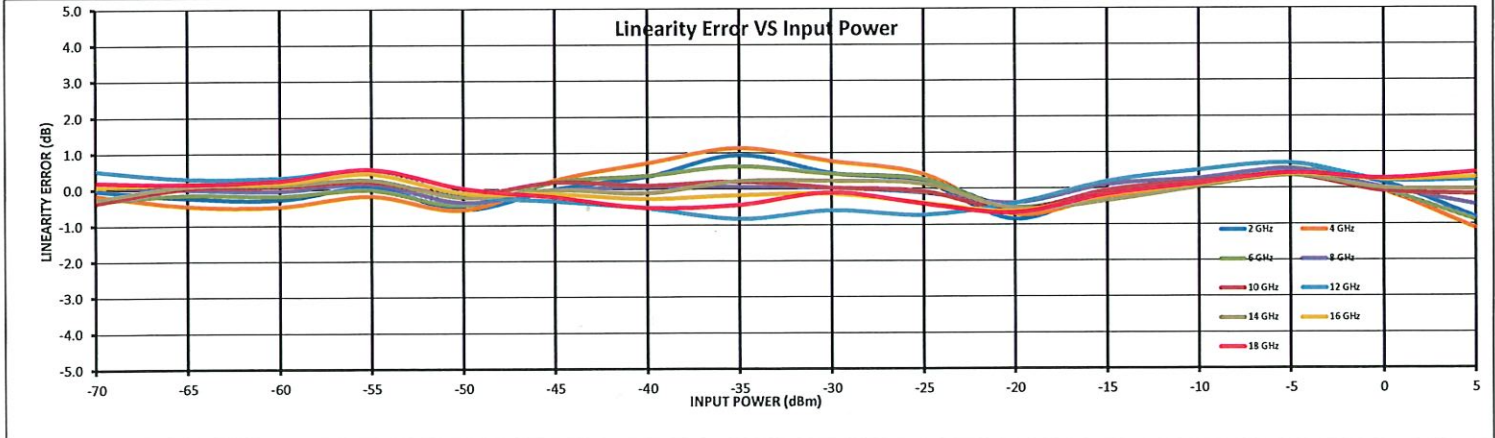
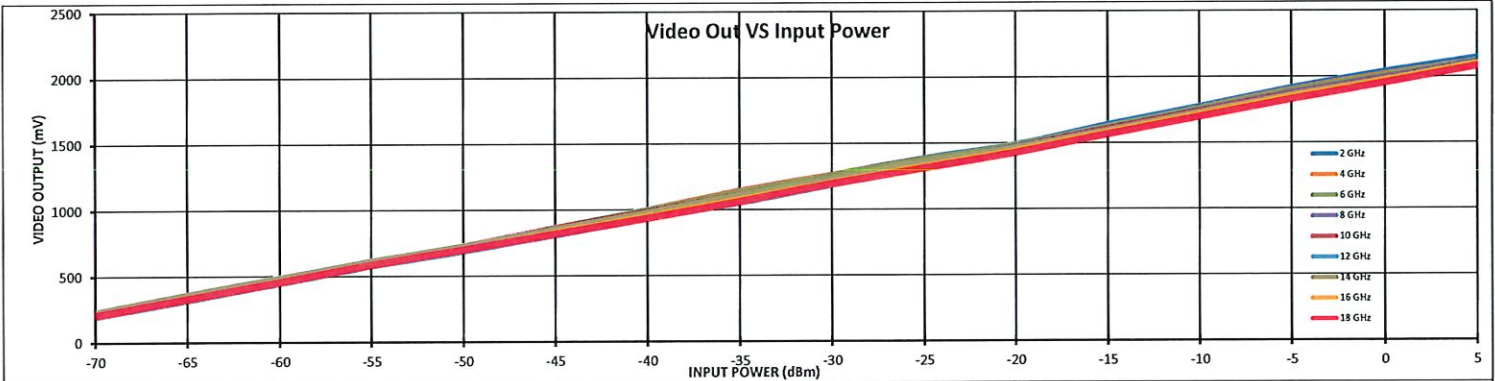
PL37927/2239

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37927/2239
 Date: 10/25/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2038	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2038	210	335	465	604	719	864	1003	1149	1266	1390	1494	1645	1779	1921	2042	2147	Measured Value (mV)
	SLOPE (mV/dB)	25.1	0	-6	-7	2	-14	0	9	25	11	5	-22	-1	2	13	4	-21	ERROR (mV)
	LIN. ERR. (dB)	1.0	-0.01	-0.23	-0.27	0.06	-0.54	0.01	0.35	0.95	0.44	0.20	-0.85	-0.05	0.08	0.16	-0.21	-0.82	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2023	204	326	456	593	712	863	1005	1145	1265	1386	1486	1628	1767	1907	2021	2124	Measured Value (mV)
	SLOPE (mV/dB)	25.9	-4	-12	-12	-4	-15	7	19	30	20	11	-18	-6	3	14	-2	-29	ERROR (mV)
	LIN. ERR. (dB)	1.1	-0.15	-0.45	-0.46	-0.17	-0.57	0.26	0.72	1.14	0.77	0.42	-0.71	-0.23	0.10	0.53	-0.07	-1.12	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2016	218	351	478	610	727	871	1003	1137	1260	1383	1491	1630	1764	1902	2014	2121	Measured Value (mV)
	SLOPE (mV/dB)	25.6	-8	-4	-4	0	-11	5	10	16	11	7	-13	-2	4	14	-2	-23	ERROR (mV)
	LIN. ERR. (dB)	0.9	-0.31	-0.14	-0.17	-0.01	-0.43	0.20	0.38	0.64	0.42	0.27	-0.52	-0.08	0.15	0.55	-0.06	-0.89	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1999	207	333	460	594	708	845	975	1103	1231	1356	1476	1617	1760	1884	1999	2115	Measured Value (mV)
	SLOPE (mV/dB)	25.6	2	0	-1	4	-9	-1	2	2	1	-3	-10	3	7	14	0	-12	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.09	0.01	-0.03	0.16	-0.36	-0.03	0.07	0.06	0.03	-0.10	-0.39	0.11	0.28	0.53	0.01	-0.46	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1988	229	364	490	619	734	868	991	1119	1239	1362	1473	1612	1743	1873	1986	2109	Measured Value (mV)
	SLOPE (mV/dB)	25.0	-9	1	2	6	-4	5	2	5	1	-2	-16	-1	5	9	-2	-4	ERROR (mV)
	LIN. ERR. (dB)	0.6	-0.36	0.05	0.09	0.23	-0.15	0.20	0.10	0.21	0.03	-0.07	-0.60	-0.05	0.19	0.37	-0.08	-0.17	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1968	204	325	453	585	694	817	939	1058	1191	1315	1450	1592	1727	1859	1974	2101	Measured Value (mV)
	SLOPE (mV/dB)	25.4	13	8	9	13	-4	8	-13	-21	-15	-18	-10	5	13	18	6	6	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.52	0.31	0.34	0.32	-0.16	-0.32	-0.53	-0.83	-0.59	-0.72	-0.41	0.20	0.51	0.70	0.22	0.23	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1975	228	361	486	614	726	856	978	1110	1234	1357	1464	1593	1727	1859	1975	2098	Measured Value (mV)
	SLOPE (mV/dB)	24.9	-5	2	3	7	-6	0	-3	6	6	4	-14	-8	1	9	0	-1	ERROR (mV)
	LIN. ERR. (dB)	0.5	-0.26	0.10	0.13	0.27	-0.22	0.00	-0.11	0.23	0.22	0.14	-0.55	-0.34	0.05	0.36	0.00	-0.02	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1972	214	342	468	600	712	837	960	1088	1214	1334	1453	1590	1723	1856	1978	2105	Measured Value (mV)
	SLOPE (mV/dB)	25.1	2	4	5	11	-2	-3	-7	-4	-3	-10	-16	-5	3	10	6	8	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.09	0.17	0.19	0.45	-0.10	-0.12	-0.26	-0.16	-0.13	-0.39	-0.63	-0.18	0.12	0.41	0.24	0.30	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1947	208	331	458	591	702	820	937	1064	1197	1314	1432	1569	1701	1833	1954	2082	Measured Value (mV)
	SLOPE (mV/dB)	24.9	5	4	6	14	1	5	-13	-11	-3	-10	-17	-4	3	11	7	11	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.21	0.16	0.26	0.57	0.03	-0.21	-0.51	-0.44	-0.10	-0.41	-0.67	-0.16	0.14	0.43	0.27	0.44	LINEARITY ERROR (dB)
Avg. Slope: 25.4 mV/dB			0.5	0.8	0.7	0.7	0.8	1.1	1.3	1.8	1.5	1.5	1.2	1.5	1.5	1.7	1.7	1.3	Flatness dB: ±1.8 dB





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

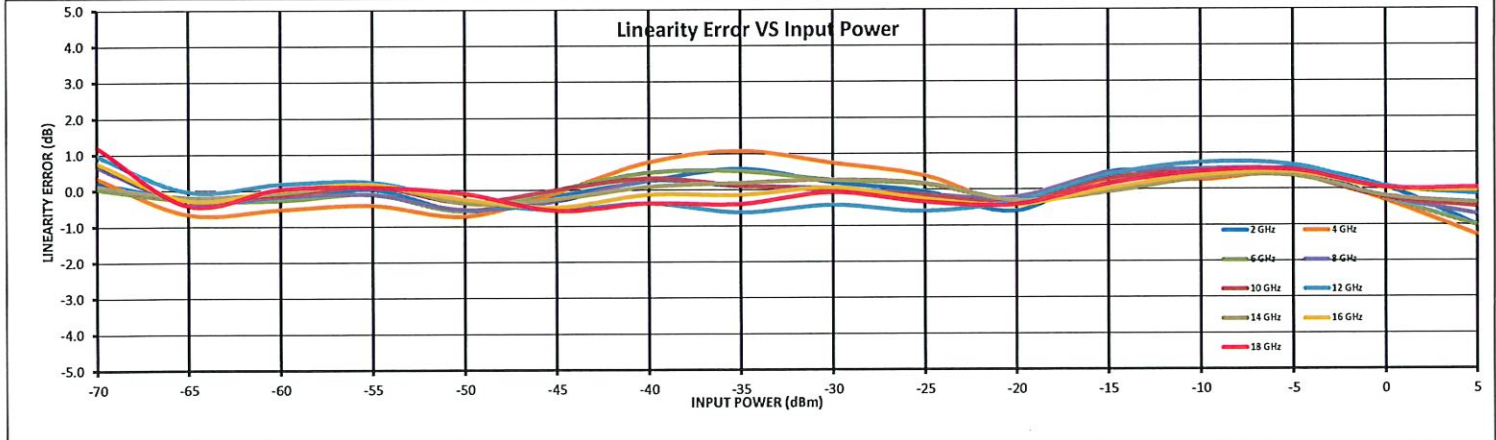
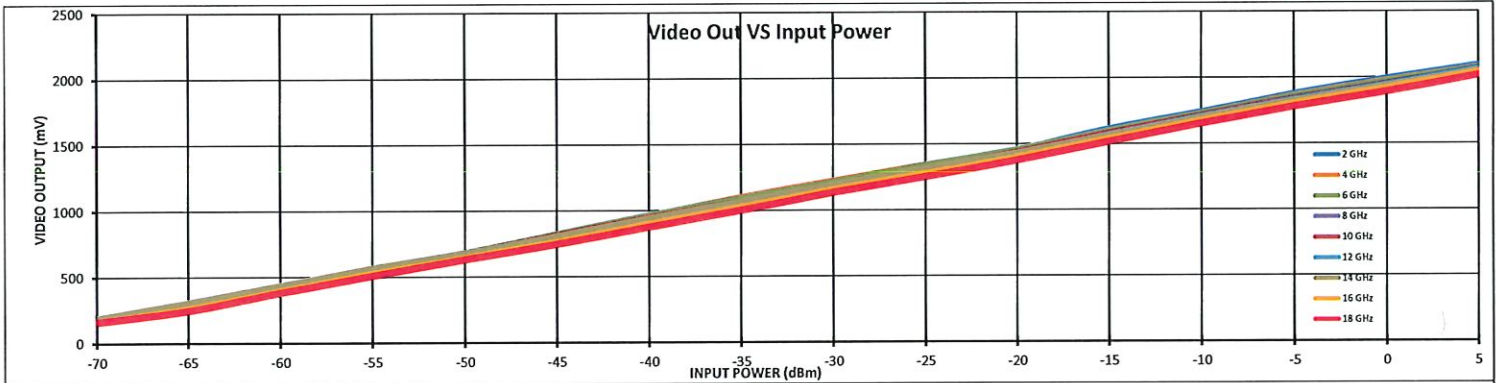
PL37927/2239

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37927/2239
 Date: 10/25/2022
 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	1996	25.9	1.0	188	306	436	572	686	826	966	1104	1224	1347	1462	1620	1745	1881	1997	2099	Measured Value (mV)
				6	-5	-5	1	-15	-4	7	15	5	-1	-15	13	9	15	2	-26	ERROR (mV)
				0.23	-0.21	-0.20	0.04	-0.57	-0.16	0.26	0.59	0.21	-0.05	-0.60	0.49	0.34	0.57	0.06	-1.01	LINEARITY ERROR (dB)
4 GHz	1990	26.0	1.3	175	279	413	546	668	816	968	1106	1228	1349	1458	1606	1736	1870	1982	2086	Measured Value (mV)
				9	-17	-14	-11	-19	-1	20	28	20	10	-11	7	7	11	-8	-33	ERROR (mV)
				0.36	-0.65	-0.52	-0.40	-0.71	-0.06	0.78	1.09	0.75	0.40	-0.40	0.28	0.26	0.42	-0.30	-1.28	LINEARITY ERROR (dB)
6 GHz	1982	25.6	1.0	190	311	438	571	687	830	970	1099	1221	1346	1463	1607	1735	1867	1976	2084	Measured Value (mV)
				1	-7	-7	-2	-14	0	13	14	7	4	-7	9	9	13	-7	-26	ERROR (mV)
				0.05	-0.26	-0.27	-0.09	-0.56	0.01	0.49	0.53	0.28	0.16	-0.26	0.36	0.33	0.49	-0.26	-1.01	LINEARITY ERROR (dB)
8 GHz	1965	25.8	0.7	177	281	413	544	662	797	940	1065	1193	1317	1444	1590	1722	1850	1960	2077	Measured Value (mV)
				17	-8	-4	-3	-14	-8	7	3	1	-3	-5	12	15	13	-6	-18	ERROR (mV)
				0.67	-0.30	-0.16	-0.11	-0.53	-0.30	0.27	0.11	0.06	-0.13	-0.20	0.46	0.56	0.51	-0.23	-0.70	LINEARITY ERROR (dB)
10 GHz	1959	25.3	0.5	190	308	437	569	684	820	954	1076	1199	1322	1443	1586	1717	1842	1952	2073	Measured Value (mV)
				3	-5	-3	3	-8	0	8	3	0	-4	-9	8	12	10	-6	-12	ERROR (mV)
				0.13	-0.19	-0.12	0.13	-0.34	0.01	0.33	0.12	0.00	-0.15	-0.35	0.30	0.47	0.39	-0.24	-0.49	LINEARITY ERROR (dB)
12 GHz	1941	25.6	1.0	174	277	410	539	654	775	908	1029	1162	1286	1421	1567	1704	1830	1943	2065	Measured Value (mV)
				25	-1	5	6	-7	-14	-9	-16	-11	-15	-8	10	19	17	2	-3	ERROR (mV)
				0.98	-0.03	0.19	0.23	-0.29	-0.54	-0.36	-0.62	-0.41	-0.59	-0.31	0.41	0.74	0.67	0.07	-0.14	LINEARITY ERROR (dB)
14 GHz	1939	25.0	0.4	190	308	436	567	679	807	941	1068	1196	1318	1431	1562	1697	1824	1935	2055	Measured Value (mV)
				3	-4	-1	5	-9	-6	3	5	7	5	-7	-2	8	9	-5	-10	ERROR (mV)
				0.12	-0.17	-0.06	0.18	-0.36	-0.24	0.10	0.20	0.29	0.18	-0.30	-0.07	0.31	0.37	-0.20	-0.38	LINEARITY ERROR (dB)
16 GHz	1930	25.4	0.8	173	274	408	538	655	776	912	1038	1170	1289	1411	1550	1686	1815	1931	2056	Measured Value (mV)
				20	-7	1	4	-6	-12	-3	-3	2	-7	-11	1	10	12	1	-1	ERROR (mV)
				0.78	-0.26	0.03	0.17	-0.25	-0.47	-0.12	-0.13	0.08	-0.26	-0.43	0.03	0.38	0.47	0.02	-0.04	LINEARITY ERROR (dB)
18 GHz	1893	25.1	1.2	164	248	385	512	634	747	878	1003	1137	1256	1380	1520	1654	1781	1894	2020	Measured Value (mV)
				31	-10	1	2	-2	-14	-9	-10	-1	-8	-10	4	12	13	1	1	ERROR (mV)
				1.22	-0.41	0.05	0.09	-0.09	-0.57	-0.36	-0.39	-0.06	-0.34	-0.41	0.15	0.49	0.53	0.04	0.04	LINEARITY ERROR (dB)
Avg. Slope: 25.5 mV/dB				0.5	1.2	1	1.2	1	1.6	1.8	2	1.8	1.8	1.6	2	1.8	2	2	1.6	Flatness dB: ±2 dB





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

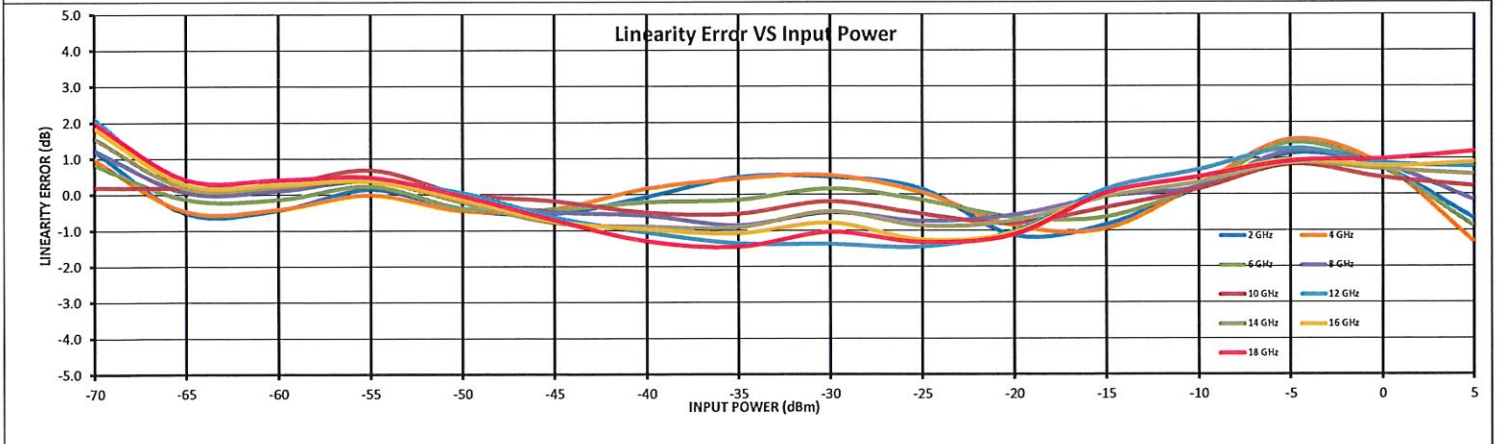
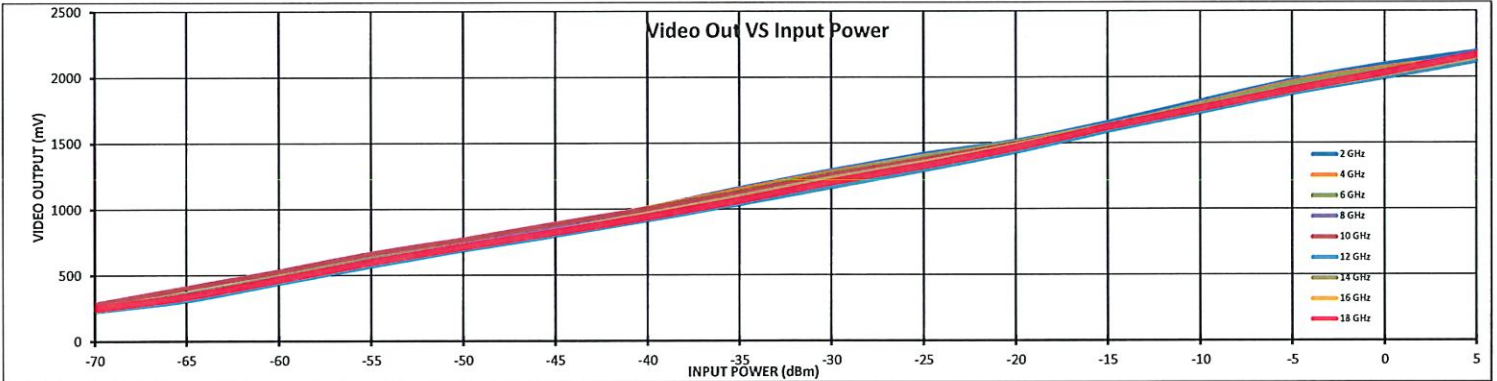
PL37927/2239

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37927/2239
 Date: 10/25/2022
 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)	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
2 GHz	2075	26.6	1.2	242	329	465	613	732	862	1008	1155	1289	1413	1512	1653	1813	1972	2094	2190				
				33	-14	-11	4	-11	-14	-2	13	13	4	-30	-22	5	30	20	-18				
				1.22	-0.51	-0.43	0.15	-0.41	-0.52	-0.06	0.49	0.50	0.16	-1.14	-0.84	0.19	1.14	0.73	-0.67				
4 GHz	2048	26.1	1.5	249	342	474	614	733	865	1010	1147	1280	1398	1504	1632	1794	1957	2069	2144				
				26	-12	-11	0	-12	-10	4	12	14	2	-23	-25	7	40	22	-34				
				0.98	-0.46	-0.40	-0.01	-0.44	-0.39	0.17	0.45	0.55	0.06	-0.87	-0.95	0.26	1.53	0.83	-1.31				
6 GHz	2039	25.8	1.4	258	362	490	629	742	870	1003	1134	1271	1391	1508	1637	1787	1947	2058	2145				
				22	-3	-3	6	-10	-10	-5	-4	4	-4	-16	-16	6	37	19	-23				
				0.85	-0.12	-0.13	0.24	-0.37	-0.40	-0.20	-0.14	0.17	-0.14	-0.63	-0.62	0.22	1.44	0.74	-0.88				
8 GHz	2010	25.7	1.2	253	351	480	615	728	848	973	1094	1231	1353	1485	1626	1760	1914	2032	2134				
				32	2	3	10	-4	-12	-15	-22	-12	-19	-14	-1	5	31	21	-4				
				1.24	0.06	0.11	0.39	-0.17	-0.47	-0.58	-0.85	-0.49	-0.73	-0.57	-0.05	0.21	1.21	0.84	-0.15				
10 GHz	2004	24.7	0.8	282	405	530	664	771	889	1005	1127	1259	1374	1491	1625	1761	1902	2016	2133				
				5	5	7	17	1	-4	-12	-13	-5	-13	-20	-9	4	21	12	6				
				0.21	0.19	0.27	0.69	0.02	-0.17	-0.49	-0.53	-0.19	-0.54	-0.80	-0.36	0.15	0.85	0.47	0.24				
12 GHz	1982	25.7	2.1	241	320	451	581	701	812	929	1050	1178	1304	1443	1601	1743	1887	2005	2131				
				54	5	8	10	2	-16	-27	-35	-35	-37	-26	4	18	33	23	20				
				2.11	0.20	0.32	0.37	0.06	-0.62	-1.04	-1.35	-1.37	-1.45	-1.02	0.16	0.69	1.29	0.88	0.78				
14 GHz	2011	25.7	1.6	249	342	472	606	718	832	958	1086	1227	1345	1477	1623	1762	1904	2029	2154				
				40	5	6	11	-5	-20	-23	-23	-12	-22	-19	-2	9	23	18	15				
				1.57	0.18	0.23	0.41	-0.21	-0.78	-0.88	-0.91	-0.46	-0.86	-0.73	-0.06	0.34	0.87	0.71	0.56				
16 GHz	2019	26.0	1.8	246	335	465	598	715	829	953	1080	1218	1336	1471	1630	1771	1914	2039	2172				
				48	7	7	10	-3	-19	-25	-28	-20	-33	-27	1	13	25	21	23				
				1.84	0.28	0.29	0.37	-0.13	-0.74	-0.95	-1.07	-0.77	-1.25	-1.05	0.04	0.49	0.96	0.79	0.90				
18 GHz	2010	25.9	1.992	251	340	469	600	716	828	942	1067	1208	1329	1464	1623	1764	1905	2036	2171				
				52	11	11	12	-1	-18	-33	-38	-27	-34	-29	1	13	24	26	31				
				1.99	0.43	0.41	0.48	-0.04	-0.70	-1.29	-1.45	-1.03	-1.33	-1.11	0.03	0.49	0.93	0.99	1.20				
Avg. Slope: 25.8 mV/dB				0.8	1.6	1.5	1.6	1.4	1.5	1.6	2	2.2	2.1	1.3	1	1.4	1.7	1.7	1.2	Flatness dB: ±2.2 dB			

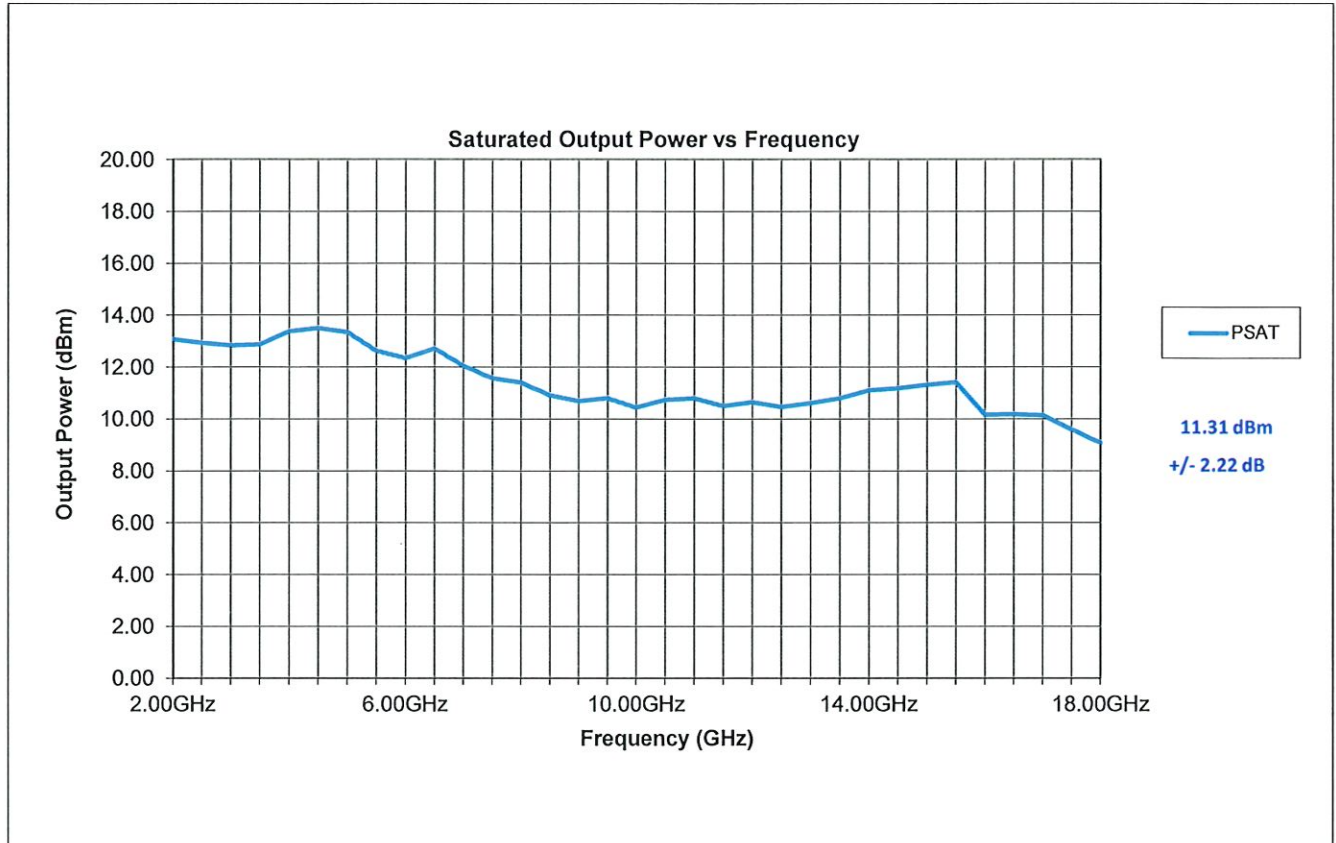




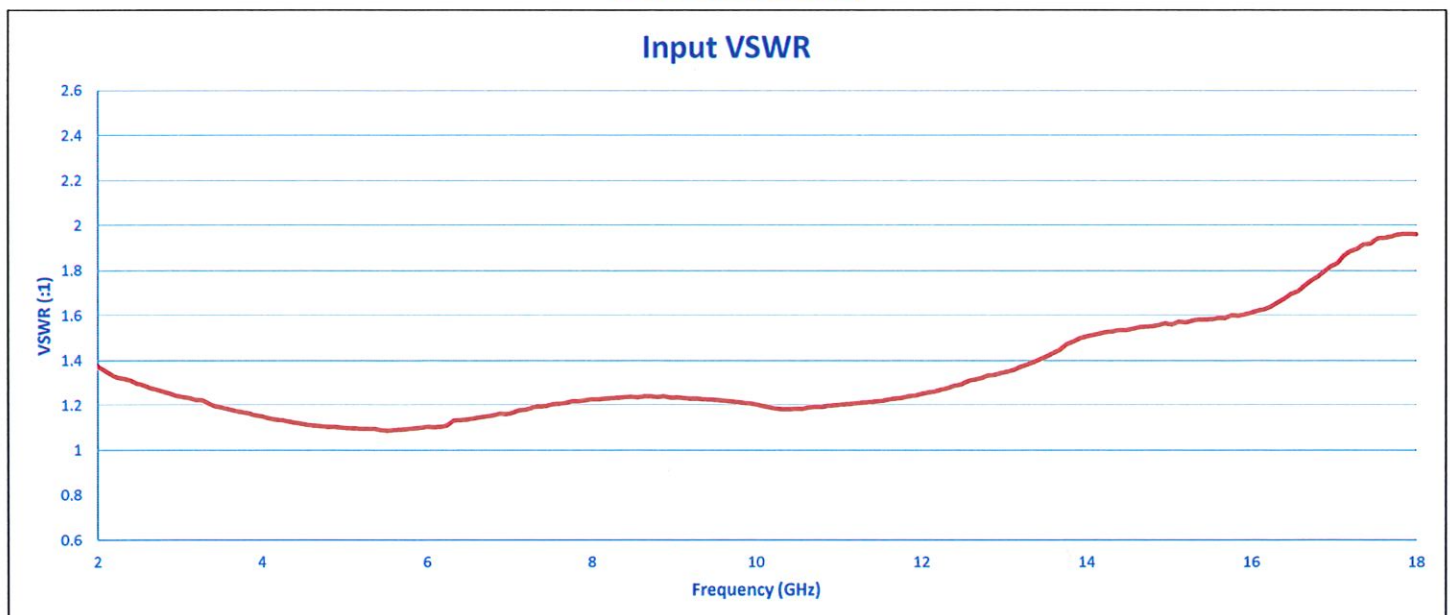
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37927/2239

PSAT



INPUT VSWR

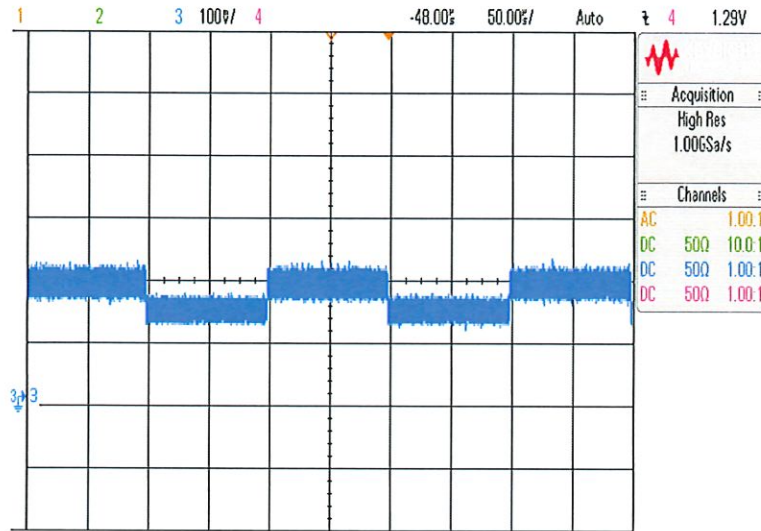




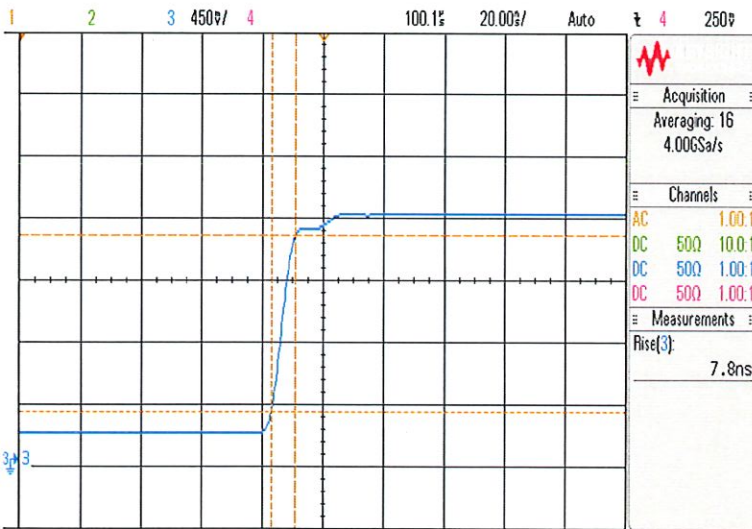
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37927/2239

TSS



Rise Time



Fall Time

