



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

PL36335/2217

Customer: _____ Tested By: Rcombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/28/2022
Serial No: PL36335/2217 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)	1.7:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	13.42 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.9 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)	±1.3 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	7.0 ns	
12	Recovery Time:	60 ns Typical	47.5 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 257 mA -12V @ 96 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: _____

4/29/2022



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

PL36335/2217

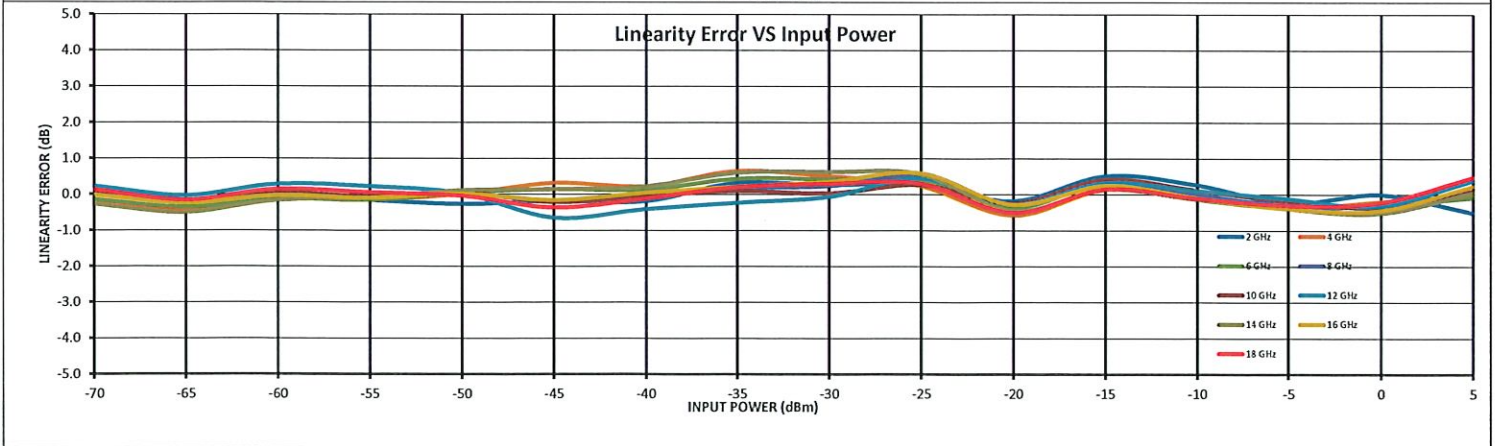
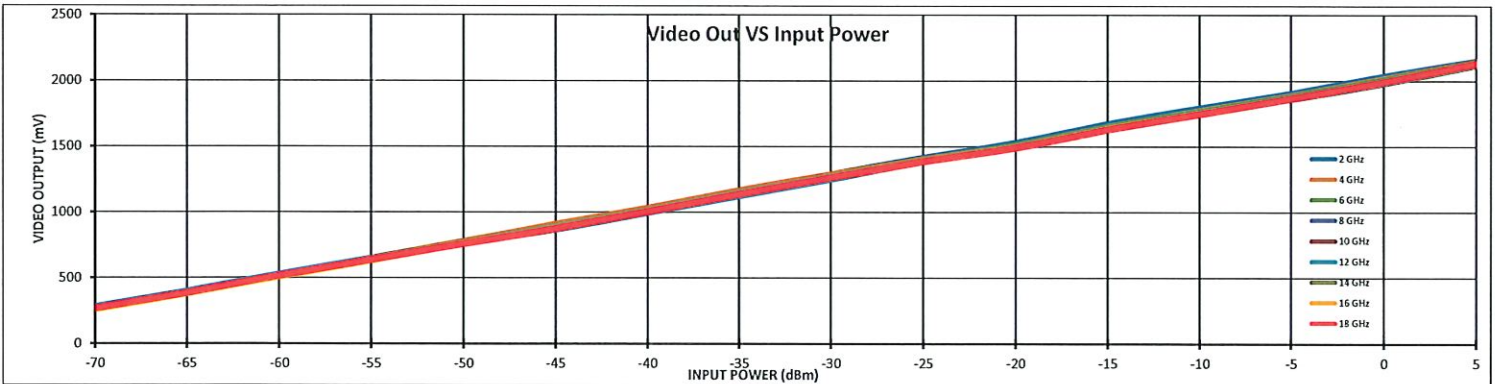
Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36335/2217
 Date: 4/28/2022
 Tested By: Rcombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2041	-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)	25.2	282	398	527	651	774	902	1028	1167	1292	1419	1533	1676	1795	1909	2041	2155	Measured Value (mV)
	LIN. ERR. (dB)	0.5	6	-5	-1	-4	-7	-4	-5	8	7	8	-5	13	7	-6	0	-13	ERROR (mV)
			0.24	-0.18	-0.05	-0.15	-0.27	-0.17	-0.18	0.32	0.26	0.31	-0.18	0.52	0.27	-0.23	0.00	-0.50	LINEARITY ERROR (dB)
4 GHz	SLOPE (mV/dB)	24.9	278	398	530	653	781	914	1035	1170	1291	1409	1513	1655	1774	1891	2020	2149	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-6	-10	-3	-3	0	8	6	16	13	6	-14	4	-2	-9	-5	0	ERROR (mV)
			-0.23	-0.39	-0.12	-0.14	0.01	0.32	0.23	0.65	0.51	0.24	-0.57	0.15	-0.09	-0.36	-0.19	-0.01	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	25.1	261	381	513	637	768	896	1021	1154	1279	1404	1511	1653	1770	1887	2014	2145	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-4	-9	-3	-4	1	4	3	11	11	10	-9	8	-1	-9	-7	-2	ERROR (mV)
			-0.14	-0.36	-0.11	-0.15	0.05	0.16	0.13	0.44	0.42	0.38	-0.35	0.30	-0.04	-0.37	-0.29	-0.08	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	25.0	261	379	510	632	760	879	1007	1138	1264	1396	1501	1641	1758	1875	2000	2134	Measured Value (mV)
	LIN. ERR. (dB)	0.5	1	-5	1	-2	1	-5	-2	4	6	13	-7	8	0	-8	-7	2	ERROR (mV)
			0.04	-0.20	0.03	-0.08	0.03	-0.20	-0.07	0.17	0.24	0.50	-0.28	0.33	0.01	-0.30	-0.30	0.09	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	24.9	259	377	507	629	756	874	1002	1131	1253	1384	1496	1637	1754	1871	1991	2127	Measured Value (mV)
	LIN. ERR. (dB)	0.4	2	-4	1	-1	1	-5	-1	3	1	7	-6	11	3	-4	-9	3	ERROR (mV)
			0.09	-0.16	0.05	-0.06	0.06	-0.21	-0.05	0.10	0.03	0.27	-0.24	0.42	0.12	-0.17	-0.36	0.10	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	24.6	278	394	525	646	764	870	999	1126	1253	1389	1493	1631	1748	1866	1983	2124	Measured Value (mV)
	LIN. ERR. (dB)	0.6	6	-1	7	6	1	-16	-10	-6	-2	11	-7	8	3	-3	-8	10	ERROR (mV)
			0.24	-0.03	0.29	0.23	0.03	-0.65	-0.41	-0.23	-0.06	0.46	-0.27	0.33	0.11	-0.11	-0.31	0.40	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	24.7	266	384	516	641	769	894	1019	1152	1276	1398	1498	1634	1751	1868	1989	2126	Measured Value (mV)
	LIN. ERR. (dB)	0.6	-7	-12	-4	-2	3	4	6	16	15	14	-11	4	-3	-10	-13	1	ERROR (mV)
			-0.27	-0.50	-0.15	-0.10	0.12	0.15	0.23	0.61	0.62	0.57	-0.45	0.14	-0.13	-0.39	-0.52	0.06	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	25.0	250	369	500	623	752	872	1003	1132	1261	1392	1495	1634	1750	1868	1992	2134	Measured Value (mV)
	LIN. ERR. (dB)	0.6	0	-6	-1	-3	1	-4	1	6	9	15	-7	6	-2	-10	-11	6	ERROR (mV)
			-0.01	-0.24	-0.03	-0.10	0.02	-0.15	0.05	0.22	0.35	0.60	-0.28	0.25	-0.10	-0.38	-0.44	0.24	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	24.8	269	385	517	638	760	875	1005	1137	1263	1387	1491	1631	1748	1867	1993	2134	Measured Value (mV)
	LIN. ERR. (dB)	0.5	3	-4	4	1	-1	-9	-3	5	7	8	-12	4	-2	-7	-5	12	ERROR (mV)
			0.14	-0.15	0.15	0.06	-0.04	-0.36	-0.11	0.20	0.30	0.31	-0.50	0.15	-0.10	-0.30	-0.22	0.48	LINEARITY ERROR (dB)

Avg. Slope: 24.9 mV/dB 0.7 0.6 0.6 0.6 0.6 0.9 0.7 0.9 0.8 0.7 0.8 0.9 1 0.9 1.2 0.6 Flatness dB: ±1.2 dB





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

PL36335/2217

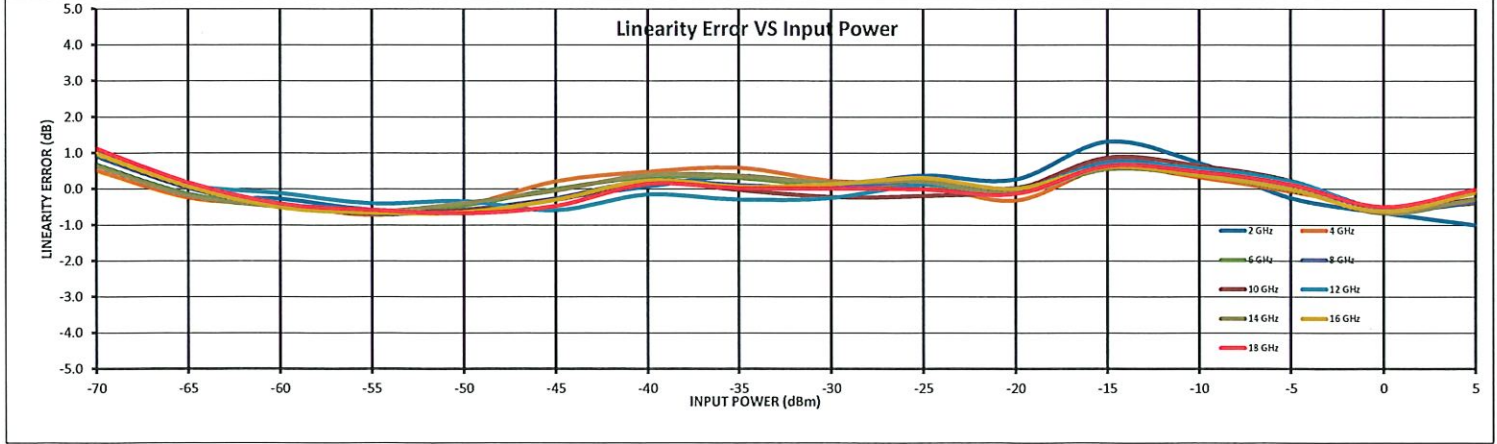
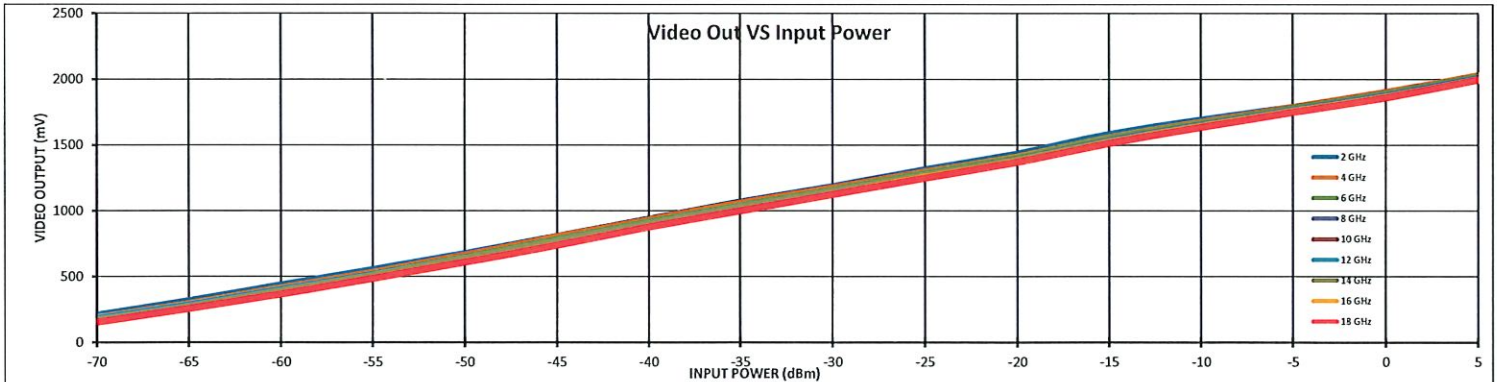
Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36335/2217
 Date: 4/28/2022
 Tested By: Rcombs
 Test Temp: +85°C

Frequency	INTERCEPT (mV)	1924	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	1924	216	321	442	557	680	811	942	1072	1189	1318	1439	1587	1696	1795	1908	2022	Measured Value (mV)
	SLOPE (mV/dB)	24.6	13	-6	-7	-14	-14	-7	2	9	3	9	7	32	18	-6	-16	-25	ERROR (mV)
	LIN. ERR. (dB)	1.3	0.52	-0.20	-0.27	-0.58	-0.57	-0.27	0.07	0.37	0.12	0.38	0.27	1.32	0.73	-0.25	-0.65	-1.00	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1920	195	300	420	537	667	808	939	1066	1181	1303	1416	1563	1680	1794	1907	2034	Measured Value (mV)
	SLOPE (mV/dB)	24.8	13	-6	-11	-18	-12	5	12	15	6	3	-8	15	8	-1	-12	-10	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.52	-0.24	-0.44	-0.72	-0.46	0.22	0.48	0.59	0.23	0.14	-0.31	0.61	0.33	-0.06	-0.50	-0.39	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1912	183	288	405	524	654	790	923	1047	1166	1292	1410	1557	1672	1786	1898	2027	Measured Value (mV)
	SLOPE (mV/dB)	24.9	17	-3	-11	-17	-11	0	8	8	2	3	-3	19	10	0	-13	-9	ERROR (mV)
	LIN. ERR. (dB)	0.8	0.69	-0.13	-0.43	-0.66	-0.46	0.00	0.33	0.31	0.10	0.13	-0.12	0.76	0.41	-0.02	-0.53	-0.38	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1897	169	272	385	504	631	765	902	1024	1147	1277	1397	1541	1659	1773	1882	2012	Measured Value (mV)
	SLOPE (mV/dB)	25.0	23	1	-11	-17	-15	-6	6	3	1	6	1	20	12	1	-14	-9	ERROR (mV)
	LIN. ERR. (dB)	0.9	0.91	0.03	-0.45	-0.68	-0.59	-0.26	0.23	0.11	0.04	0.23	0.03	0.80	0.50	0.04	-0.57	-0.37	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1884	162	264	375	495	620	752	890	1009	1129	1255	1384	1531	1650	1765	1870	2002	Measured Value (mV)
	SLOPE (mV/dB)	25.0	26	4	-10	-16	-15	-8	5	-1	-5	-5	0	22	16	6	-14	-7	ERROR (mV)
	LIN. ERR. (dB)	1.0	1.05	0.15	-0.42	-0.60	-0.59	-0.30	0.20	-0.02	-0.21	-0.19	0.00	0.87	0.65	0.24	-0.54	-0.27	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1876	182	284	401	517	641	758	891	1010	1134	1266	1385	1525	1645	1759	1863	1997	Measured Value (mV)
	SLOPE (mV/dB)	24.5	24	3	-3	-10	-8	-14	-4	-7	-6	3	0	17	14	6	-13	-1	ERROR (mV)
	LIN. ERR. (dB)	1.0	0.96	0.12	-0.12	-0.39	-0.33	-0.59	-0.15	-0.29	-0.25	0.13	-0.01	0.70	0.58	0.23	-0.52	-0.06	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1883	171	274	390	510	639	771	905	1028	1147	1271	1386	1526	1646	1760	1866	1999	Measured Value (mV)
	SLOPE (mV/dB)	24.7	16	-5	-12	-16	-10	-1	10	9	6	5	-3	14	10	1	-17	-7	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.65	-0.18	-0.49	-0.63	-0.39	-0.04	0.40	0.38	0.18	0.21	-0.12	0.56	0.39	0.02	-0.67	-0.28	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1883	154	257	367	489	614	748	887	1008	1135	1264	1382	1523	1642	1758	1867	2006	Measured Value (mV)
	SLOPE (mV/dB)	25.0	25	2	-13	-16	-16	-7	6	2	3	8	0	15	10	0	-16	-3	ERROR (mV)
	LIN. ERR. (dB)	1.0	1.00	0.08	-0.51	-0.65	-0.64	-0.30	0.24	0.07	0.13	0.31	0.01	0.61	0.38	-0.01	-0.62	-0.10	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1873	154	255	365	486	608	738	878	1000	1125	1249	1370	1514	1635	1751	1860	1997	Measured Value (mV)
	SLOPE (mV/dB)	25.0	28	5	-10	-14	-17	-12	4	1	1	0	-3	16	12	3	-12	0	ERROR (mV)
	LIN. ERR. (dB)	1.1	1.13	0.18	-0.41	-0.57	-0.67	-0.47	0.14	0.02	0.02	-0.01	-0.13	0.64	0.49	0.13	-0.49	-0.01	LINEARITY ERROR (dB)

Avg. Slope: 24.8 mV/dB Flatness dB: ±1.5 dB





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

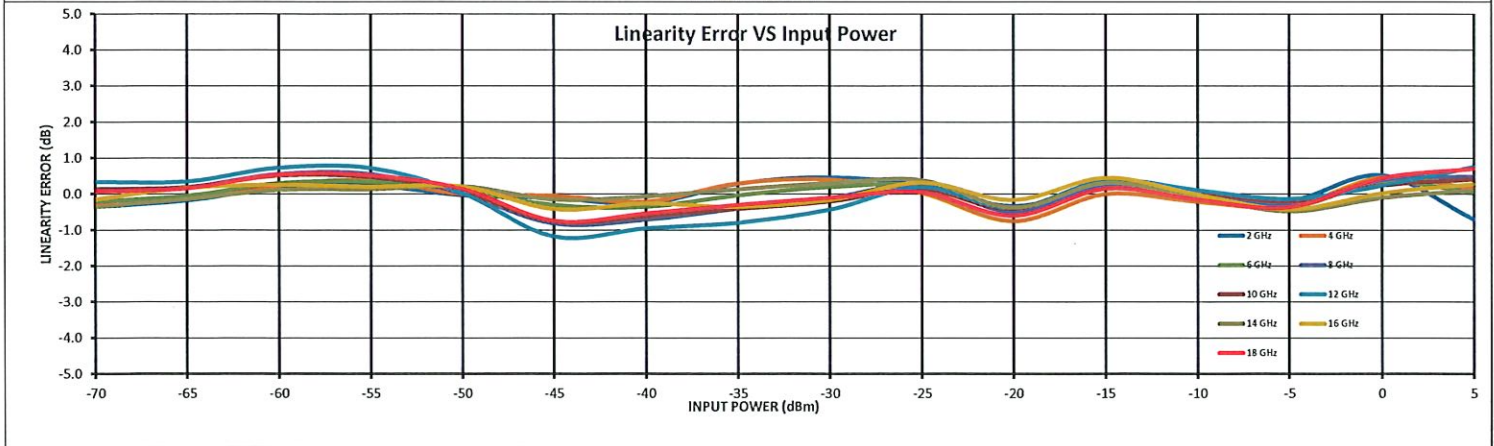
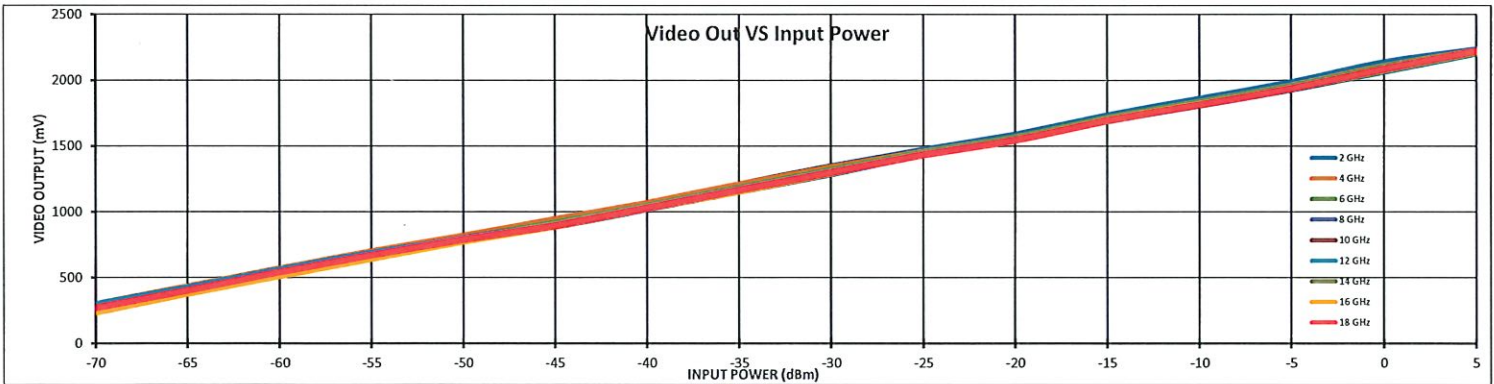
Log Transfer Over Frequency -40°C

PL36335/2217



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36335/2217
Date: 4/28/2022
Tested By: Rcombs
Test Temp: -40°C

Frequency	INTERCEPT (mV)	2126	-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)	26.3	274	410	551	685	809	939	1066	1212	1348	1474	1590	1736	1863	1989	2140	2239	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-9	-5	6	7	-1	-3	-7	8	12	6	-9	5	0	-5	14	-18	ERROR (mV)
			-0.35	-0.17	0.17	0.25	-0.03	-0.10	-0.26	0.29	0.47	0.24	-0.34	0.20	0.01	-0.18	0.53	-0.70	LINEARITY ERROR (dB)
4 GHz	SLOPE (mV/dB)	2099	302	434	572	703	821	948	1071	1212	1342	1461	1569	1716	1838	1962	2111	2231	Measured Value (mV)
	LIN. ERR. (dB)	0.8	-7	-4	6	10	0	-1	-5	8	10	1	-19	0	-5	-9	12	4	ERROR (mV)
			-0.29	-0.14	0.24	0.39	-0.01	-0.04	-0.21	0.30	0.40	0.03	-0.75	0.00	-0.21	-0.35	0.46	0.16	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	2096	275	409	548	679	802	921	1050	1188	1323	1454	1566	1714	1835	1957	2105	2227	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-5	-1	8	9	3	-8	-9	-1	5	6	-11	6	-2	-9	9	1	ERROR (mV)
			-0.20	-0.05	0.30	0.34	0.10	-0.30	-0.36	-0.03	0.20	0.24	-0.43	0.24	-0.08	-0.36	0.33	0.05	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	2079	293	422	559	687	801	908	1038	1174	1309	1447	1555	1702	1823	1944	2089	2219	Measured Value (mV)
	LIN. ERR. (dB)	0.8	4	5	14	14	0	-21	-18	-10	-3	7	-13	7	-1	-7	10	13	ERROR (mV)
			0.14	0.19	0.56	0.56	0.00	-0.81	-0.71	-0.40	-0.11	0.26	-0.49	0.26	-0.03	-0.29	0.40	0.49	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	2075	283	413	550	677	794	901	1033	1167	1300	1437	1551	1700	1820	1941	2081	2213	Measured Value (mV)
	LIN. ERR. (dB)	0.8	3	5	13	12	2	-19	-16	-10	-5	4	-10	10	2	-5	6	11	ERROR (mV)
			0.12	0.18	0.52	0.47	0.06	-0.76	-0.62	-0.41	-0.21	0.14	-0.41	0.38	0.07	-0.20	0.24	0.41	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	2063	294	422	558	685	794	891	1023	1154	1290	1434	1546	1692	1812	1933	2069	2209	Measured Value (mV)
	LIN. ERR. (dB)	1.2	9	9	19	18	1	-30	-24	-20	-11	5	-10	10	3	-3	6	19	ERROR (mV)
			0.34	0.35	0.74	0.73	0.03	-1.18	-0.95	-0.79	-0.43	0.20	-0.38	0.38	0.11	-0.13	0.24	0.76	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	2081	249	385	522	653	785	905	1038	1173	1308	1440	1550	1698	1818	1938	2078	2214	Measured Value (mV)
	LIN. ERR. (dB)	0.5	-9	-4	3	4	6	-4	-2	4	8	10	-10	8	-2	-12	-3	3	ERROR (mV)
			-0.35	-0.14	0.12	0.14	0.22	-0.15	-0.07	0.14	0.31	0.39	-0.37	0.31	-0.09	-0.47	-0.10	0.11	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	2080	228	368	502	633	765	881	1017	1147	1284	1428	1548	1696	1816	1937	2081	2220	Measured Value (mV)
	LIN. ERR. (dB)	0.5	-4	5	7	5	6	-11	-7	-9	-4	8	-4	12	0	-11	1	8	ERROR (mV)
			-0.15	0.18	0.26	0.20	0.21	-0.42	-0.26	-0.35	-0.16	0.32	-0.16	0.46	-0.01	-0.42	0.02	0.28	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	2076	271	402	541	670	789	895	1030	1165	1299	1432	1544	1693	1814	1938	2088	2223	Measured Value (mV)
	LIN. ERR. (dB)	0.743	2	4	14	14	4	-19	-14	-8	-3	1	-16	4	-4	9	11	18	ERROR (mV)
			0.07	0.16	0.54	0.52	0.15	-0.74	-0.54	-0.30	-0.11	0.05	-0.60	0.15	-0.15	-0.36	0.44	0.71	LINEARITY ERROR (dB)
Avg. Slope: 25.9 mV/dB			1.4	1.3	1.3	1.4	1.1	1.3	1	1.3	1.3	0.9	0.9	0.9	1	1.1	1.4	0.6	Flatness dB: ±1.4 dB

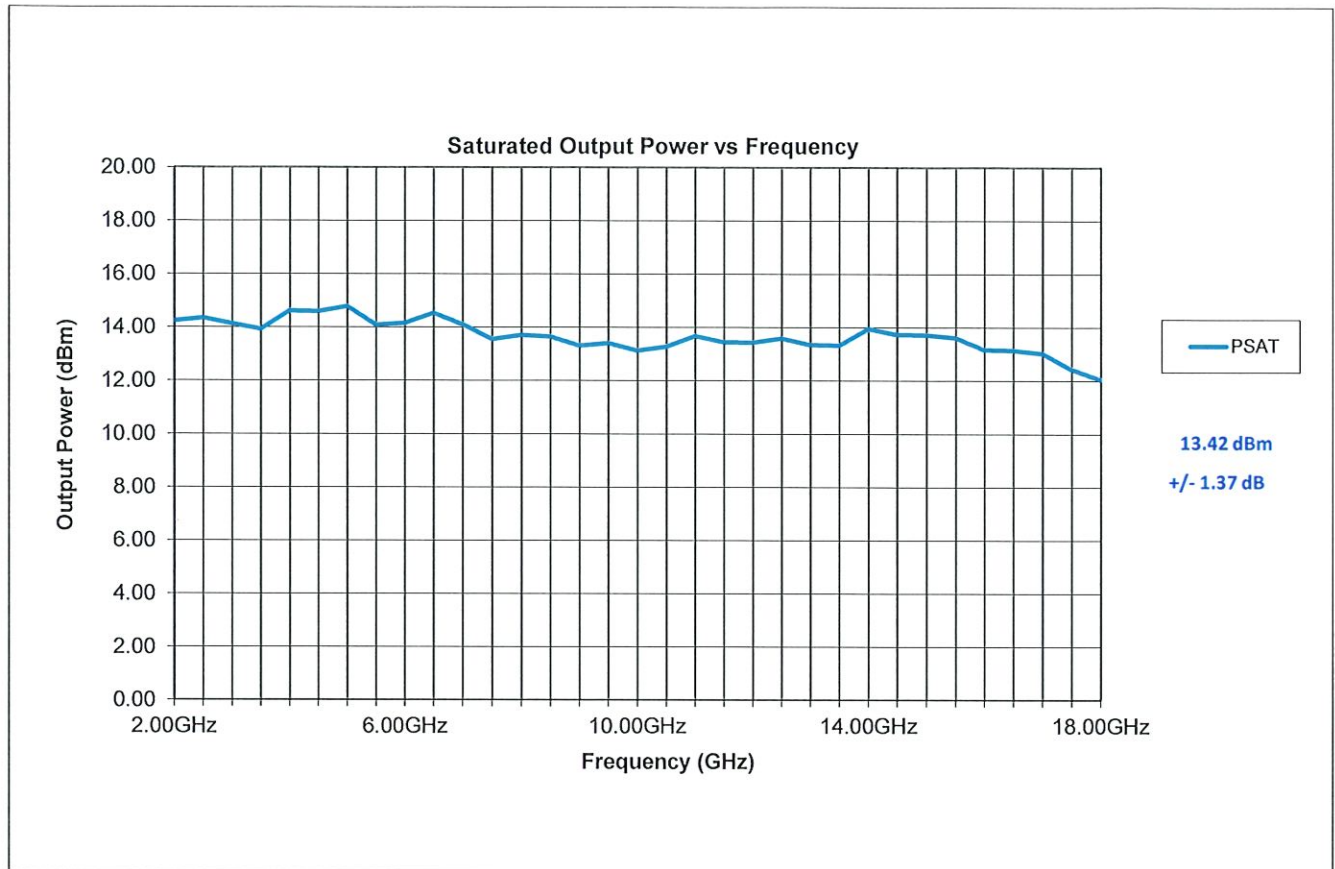




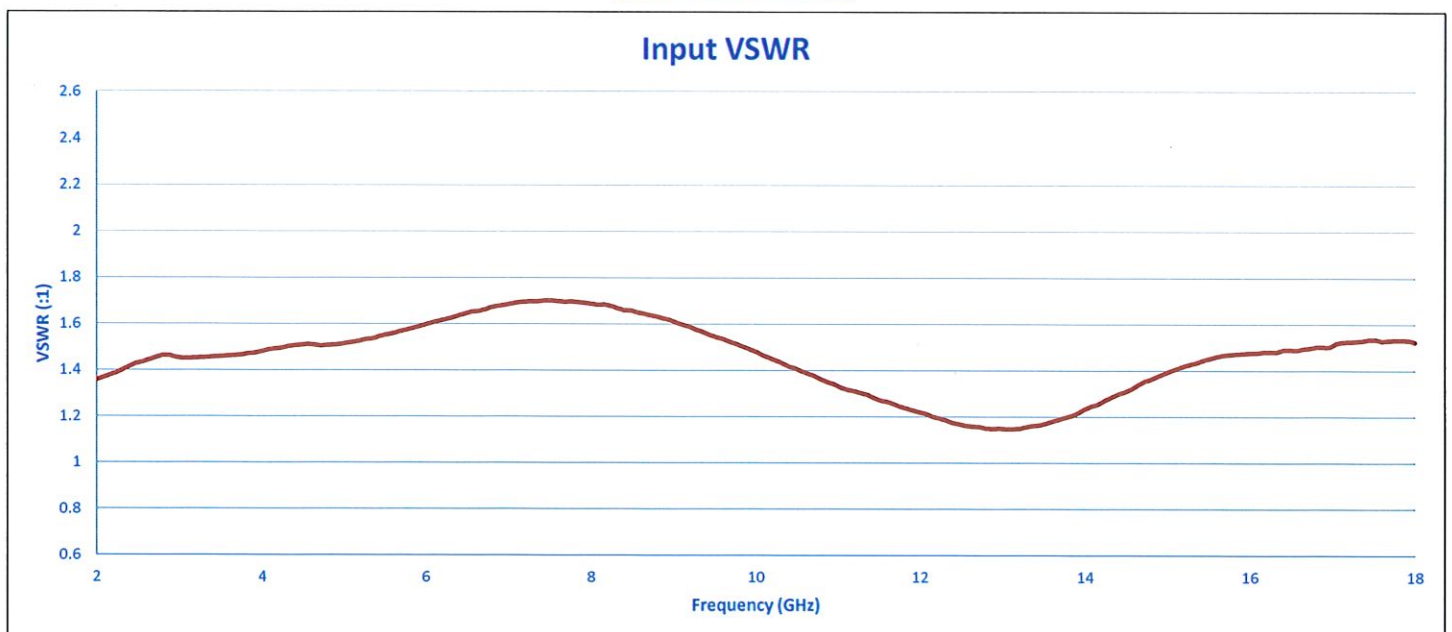
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36335/2217

PSAT



INPUT VSWR

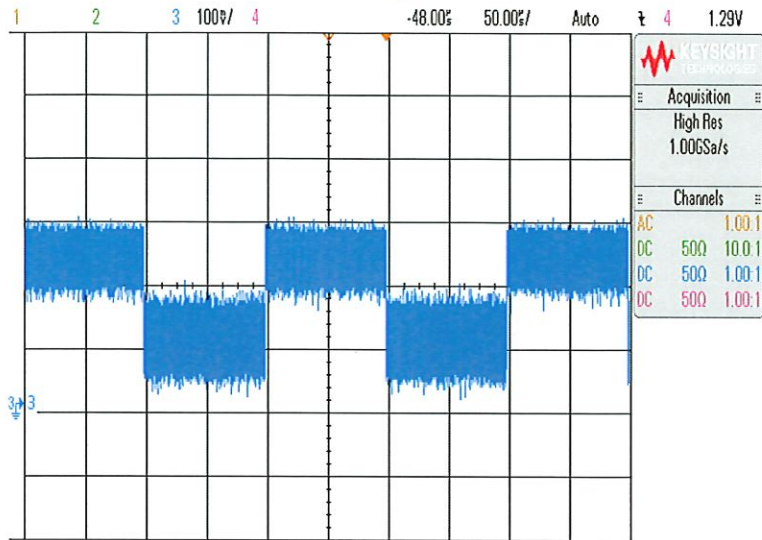




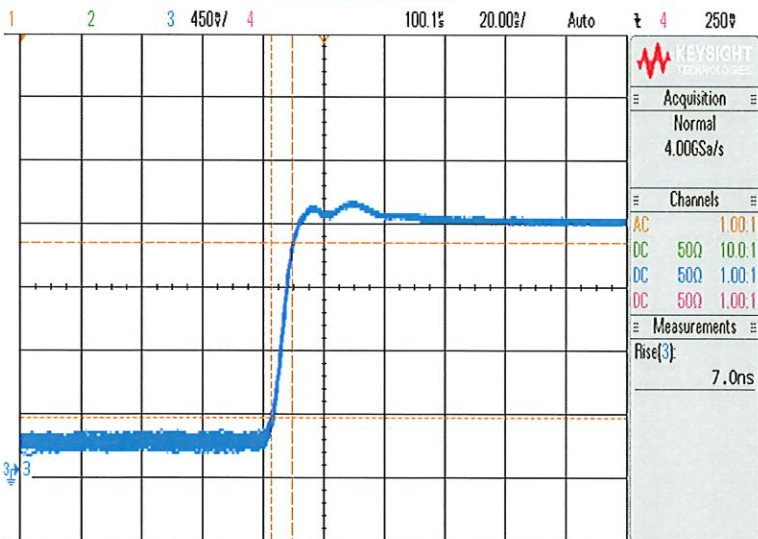
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36335/2217

TSS



Rise Time



Fall Time

