



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

PL36658/2221

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 6/9/2022
Serial No: PL36658/2221 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	±1.3 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	12.75 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.6 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)	±1.6 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.3 ns	
12	Recovery Time:	60 ns Typical	42.0 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 307 mA -12V @ 94 mA	PMI QA 2

QA/QC Approval:  PMI
QA 2

Date: 6/10/2022



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

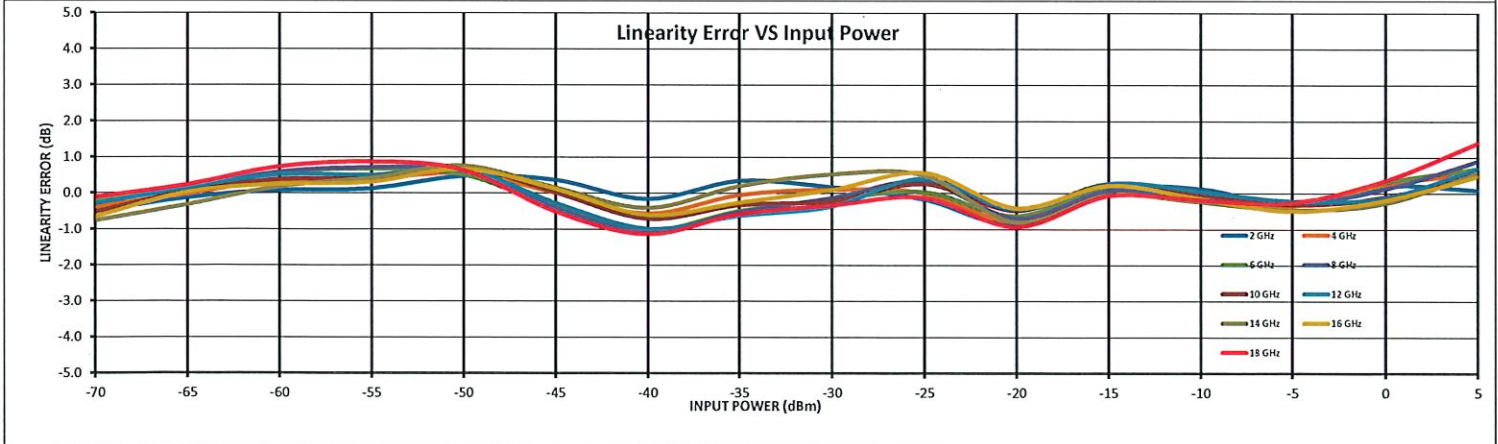
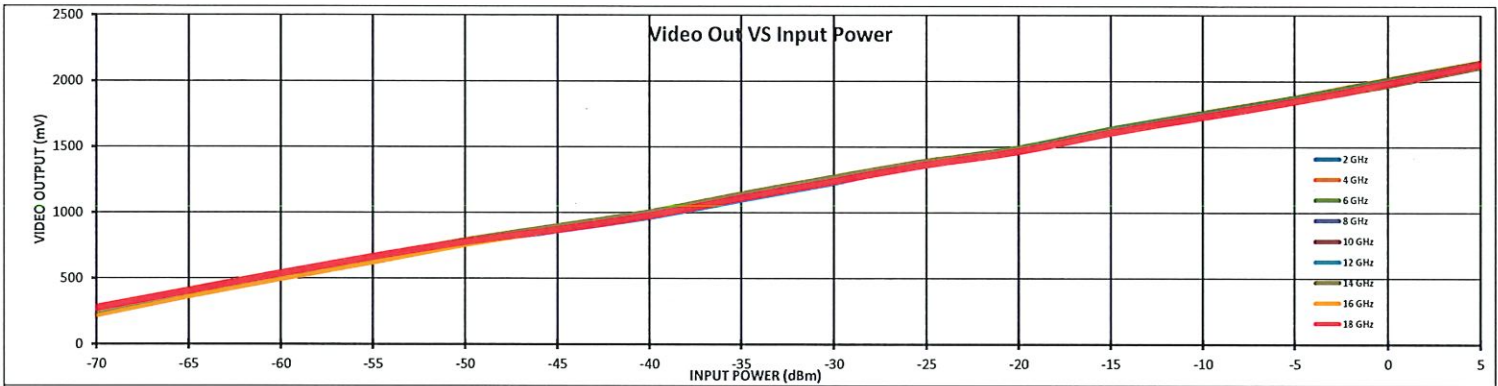
PL36658/2221

Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36658/2221
Date: 6/9/2022
Tested By: RCombs
Test Temp: +25°C

Log Transfer Over Frequency +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	1986	24.8	0.9	240	373	502	627	759	881	991	1128	1247	1363	1469	1617	1741	1854	1991	2112	Measured Value (mV)
				-13	-3	2	3	12	9	-4	9	4	-4	-22	3	3	-8	5	2	ERROR (mV)
				-0.51	-0.12	0.08	0.13	0.48	0.37	-0.16	0.35	0.17	-0.16	-0.87	0.12	0.13	-0.32	0.21	0.10	LINEARITY ERROR (dB)
4 GHz	2007	24.7	0.8	268	401	534	658	786	896	1005	1141	1269	1390	1494	1638	1757	1875	2014	2144	Measured Value (mV)
				-10	0	8	10	13	0	-14	-1	3	0	-19	2	-4	-9	6	14	ERROR (mV)
				-0.39	-0.01	0.34	0.39	0.54	0.01	-0.56	-0.05	0.10	0.01	-0.78	0.07	-0.14	-0.35	0.26	0.56	LINEARITY ERROR (dB)
6 GHz	2001	24.5	1.0	279	411	543	668	787	888	994	1130	1261	1388	1495	1638	1755	1871	2008	2140	Measured Value (mV)
				-5	4	14	17	13	-9	-25	-12	-4	1	-15	5	-1	-6	8	17	ERROR (mV)
				-0.20	0.17	0.57	0.68	0.51	-0.39	-1.03	-0.49	-0.17	0.04	-0.63	0.21	-0.03	-0.26	0.32	0.70	LINEARITY ERROR (dB)
8 GHz	1982	24.3	1.1	273	405	538	662	781	878	983	1118	1249	1382	1479	1619	1736	1853	1985	2126	Measured Value (mV)
				-7	3	14	17	15	-10	-26	-13	-3	8	-17	2	-3	-7	3	22	ERROR (mV)
				-0.28	0.14	0.59	0.71	0.62	-0.40	-1.07	-0.52	-0.13	0.33	-0.69	0.08	-0.11	-0.29	0.13	0.91	LINEARITY ERROR (dB)
10 GHz	1988	24.8	0.7	240	378	511	635	767	873	979	1112	1239	1375	1480	1623	1739	1856	1985	2125	Measured Value (mV)
				-13	1	9	10	18	1	-17	-8	-6	6	-12	7	-1	-8	-2	14	ERROR (mV)
				-0.52	0.05	0.38	0.41	0.72	0.02	-0.71	-0.33	-0.22	0.26	-0.47	0.28	-0.02	-0.31	-0.10	0.56	LINEARITY ERROR (dB)
12 GHz	1978	24.5	1.0	254	387	519	641	768	868	973	1104	1234	1375	1477	1617	1734	1851	1976	2118	Measured Value (mV)
				-7	4	13	12	16	-7	-24	-15	-9	10	-11	7	1	-5	-3	17	ERROR (mV)
				-0.28	0.15	0.52	0.51	0.67	-0.28	-0.98	-0.62	-0.36	0.41	-0.45	0.28	0.05	-0.21	-0.12	0.70	LINEARITY ERROR (dB)
14 GHz	1982	24.3	0.8	262	394	528	655	785	892	1000	1136	1265	1386	1476	1616	1733	1849	1975	2117	Measured Value (mV)
				-19	-8	4	10	19	4	-10	5	13	12	-20	-1	-6	-11	-7	14	ERROR (mV)
				-0.76	-0.32	0.18	0.42	0.76	0.15	-0.40	0.20	0.53	0.50	-0.80	-0.06	-0.24	-0.46	-0.28	0.56	LINEARITY ERROR (dB)
16 GHz	1992	25.1	0.7	215	358	489	616	751	863	971	1105	1240	1377	1479	1620	1736	1853	1987	2129	Measured Value (mV)
				-17	1	6	8	17	3	-15	-6	2	14	-10	6	-4	-12	-5	12	ERROR (mV)
				-0.66	0.03	0.25	0.30	0.67	0.12	-0.60	-0.25	0.10	0.57	-0.40	0.22	-0.15	-0.50	-0.19	0.48	LINEARITY ERROR (dB)
18 GHz	1975	24.3	1.4	274	404	537	662	778	871	977	1112	1239	1366	1467	1609	1728	1847	1983	2130	Measured Value (mV)
				-3	6	18	21	16	-13	-28	-14	-8	-3	-23	-2	-4	-6	8	34	ERROR (mV)
				-0.11	0.24	0.73	0.87	0.64	-0.52	-1.14	-0.58	-0.33	-0.12	-0.93	-0.06	-0.18	-0.26	0.35	1.40	LINEARITY ERROR (dB)
Avg. Slope: 24.6 mV/dB				1.3	1.1	1.1	1.1	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.8	0.7	Flatness dB: ±1.3 dB





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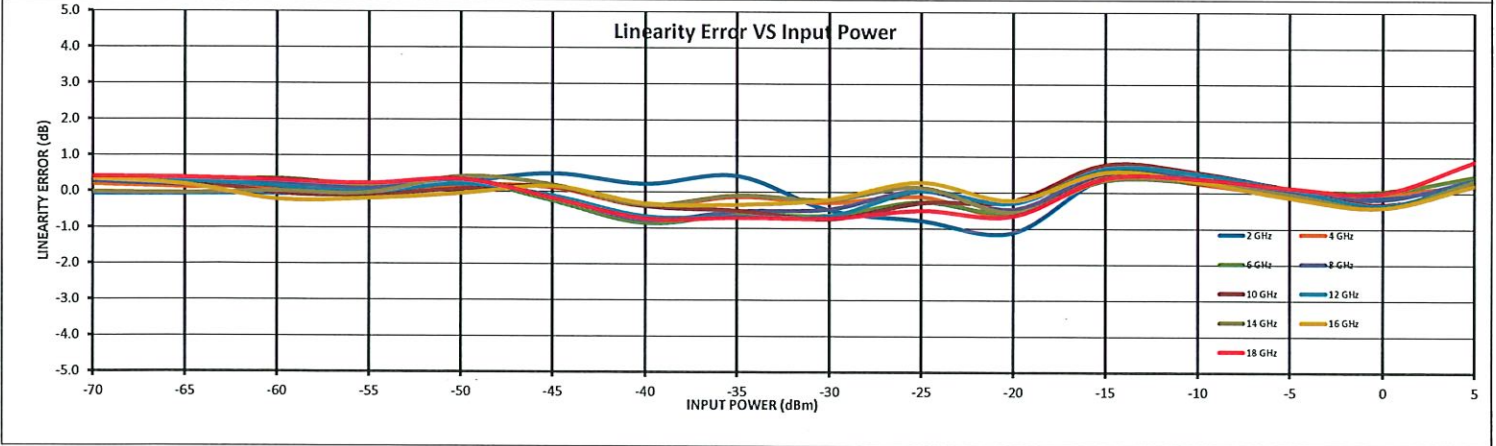
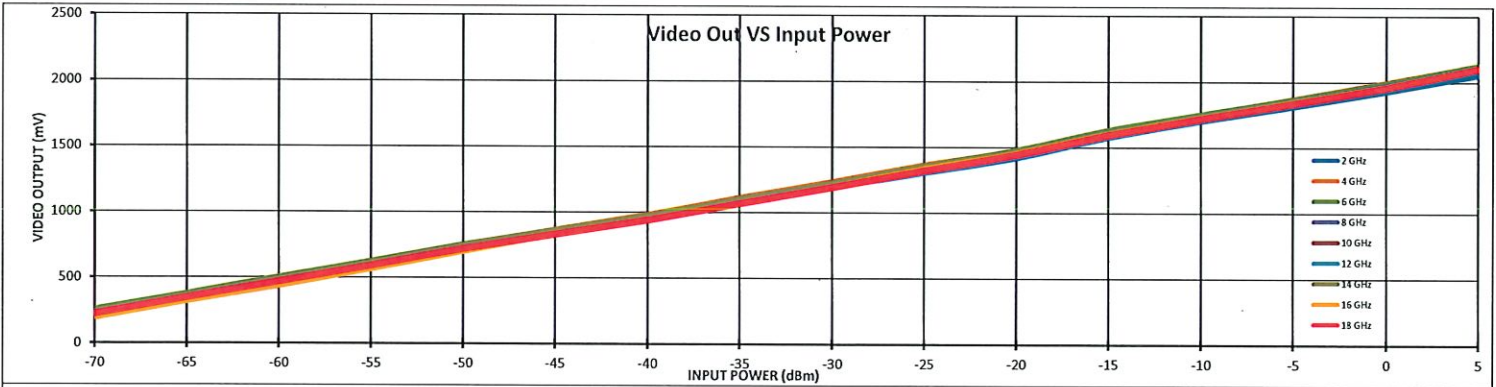
PL36658/2221

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36658/2221
 Date: 6/9/2022
 Tested By: RCombs
 Test Temp: +85°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																
2 GHz	1930	24.2	1.1	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	Measured Value (mV)
				234	355	476	597	726	853	967	1094	1192	1306	1419	1578	1701	1811	1928	2056	Error (mV)
				-0.07	-0.06	-0.06	-0.06	0.26	0.51	0.23	0.45	-0.50	-0.78	-1.11	0.44	0.55	0.09	-0.08	0.20	LINEARITY ERROR (dB)
4 GHz	1995	25.1	0.6	242	366	491	611	744	868	981	1113	1235	1365	1477	1632	1751	1811	1995	2127	Measured Value (mV)
				5	3	3	-3	4	3	-10	-3	-7	-3	-16	13	7	-1	0	6	Error (mV)
				0.20	0.12	0.10	-0.12	0.17	0.12	-0.39	-0.13	-0.29	-0.12	-0.64	0.52	0.26	-0.03	-0.01	0.24	LINEARITY ERROR (dB)
6 GHz	1990	24.9	0.9	257	378	505	625	753	864	973	1104	1227	1361	1479	1633	1751	1868	1992	2127	Measured Value (mV)
				10	6	9	4	8	-6	-22	-15	-16	-7	-13	16	10	2	1	12	Error (mV)
				0.40	0.25	0.36	0.18	0.32	-0.24	-0.86	-0.61	-0.64	-0.26	-0.52	0.64	0.40	0.09	0.04	0.47	LINEARITY ERROR (dB)
8 GHz	1978	24.9	0.8	241	363	489	610	741	853	962	1093	1219	1356	1468	1618	1739	1854	1974	2112	Measured Value (mV)
				7	5	6	2	8	-4	-19	-13	-12	1	-11	14	10	1	-4	9	Error (mV)
				0.29	0.19	0.23	0.08	0.34	-0.15	-0.77	-0.53	-0.47	0.05	-0.46	0.55	0.40	0.04	-0.16	0.37	LINEARITY ERROR (dB)
10 GHz	1975	25.5	0.8	199	325	443	569	701	831	945	1069	1191	1330	1459	1612	1734	1850	1987	2108	Measured Value (mV)
				10	8	-1	-2	2	4	-10	-13	-19	-7	-6	20	14	3	-8	5	Error (mV)
				0.38	0.32	-0.04	-0.09	0.08	0.15	-0.38	-0.51	-0.74	-0.29	-0.23	0.78	0.56	0.12	-0.32	0.21	LINEARITY ERROR (dB)
12 GHz	1972	25.1	0.7	223	346	468	589	721	838	950	1075	1201	1345	1462	1612	1734	1849	1963	2106	Measured Value (mV)
				10	8	4	0	6	-3	-17	-17	-17	1	-7	17	13	3	-9	9	Error (mV)
				0.39	0.30	0.15	-0.02	0.22	-0.11	-0.67	-0.68	-0.66	0.05	-0.29	0.67	0.53	0.12	-0.35	0.35	LINEARITY ERROR (dB)
14 GHz	1972	24.8	0.6	234	357	483	606	741	860	970	1101	1222	1355	1462	1608	1731	1847	1962	2105	Measured Value (mV)
				0	-1	0	-1	11	5	-9	-2	-5	3	-14	8	7	-1	-10	8	Error (mV)
				-0.02	-0.04	0.01	-0.03	0.42	0.20	-0.36	-0.09	-0.21	0.14	-0.55	0.34	0.29	-0.03	-0.41	0.33	LINEARITY ERROR (dB)
16 GHz	1981	25.8	0.6	186	311	429	559	691	825	942	1070	1203	1344	1460	1609	1731	1849	1970	2115	Measured Value (mV)
				9	5	-6	-5	-1	4	-8	-9	-5	7	-6	15	8	-3	-11	5	Error (mV)
				0.35	0.20	-0.22	-0.19	-0.05	0.15	-0.31	-0.35	-0.20	0.28	-0.22	0.57	0.32	-0.13	-0.41	0.21	LINEARITY ERROR (dB)
18 GHz	1957	24.9	0.9	222	346	469	591	719	831	941	1067	1191	1321	1442	1593	1718	1836	1957	2104	Measured Value (mV)
				10	10	8	6	9	-4	-16	-18	-18	-13	-16	10	10	4	0	22	Error (mV)
				0.42	0.39	0.32	0.22	0.35	-0.17	-0.74	-0.70	-0.73	-0.51	-0.65	0.40	0.39	0.14	0.00	0.87	LINEARITY ERROR (dB)
Avg. Slope: 25 mV/dB				1.4	1.3	1.5	1.3	1.2	0.9	0.8	0.9	0.9	1.2	1.2	1.1	1	1.2	1.3	1.4	Flatness dB: ±1.5 dB





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

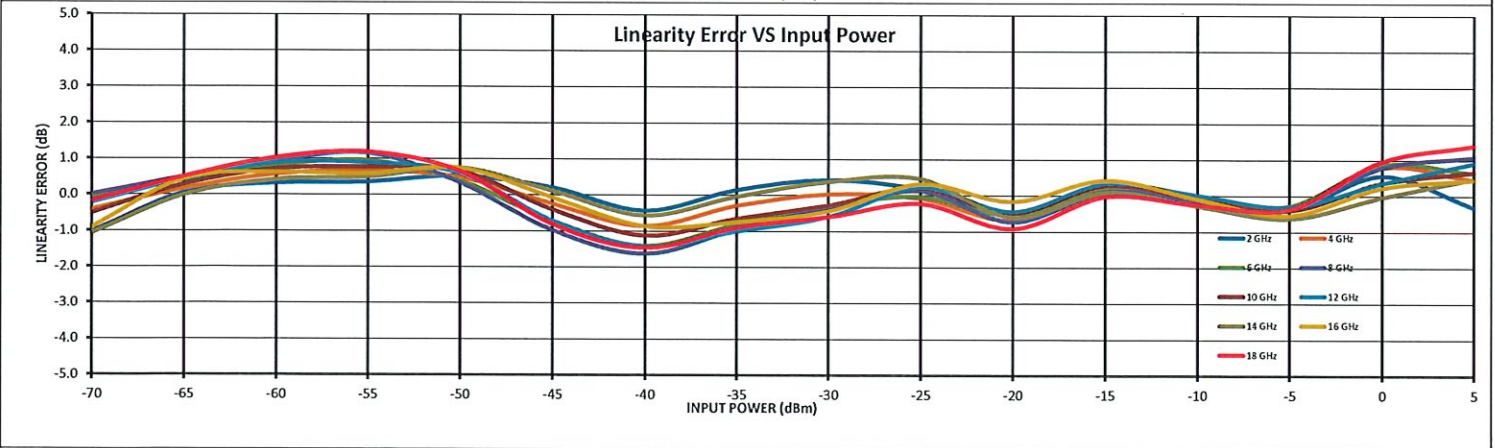
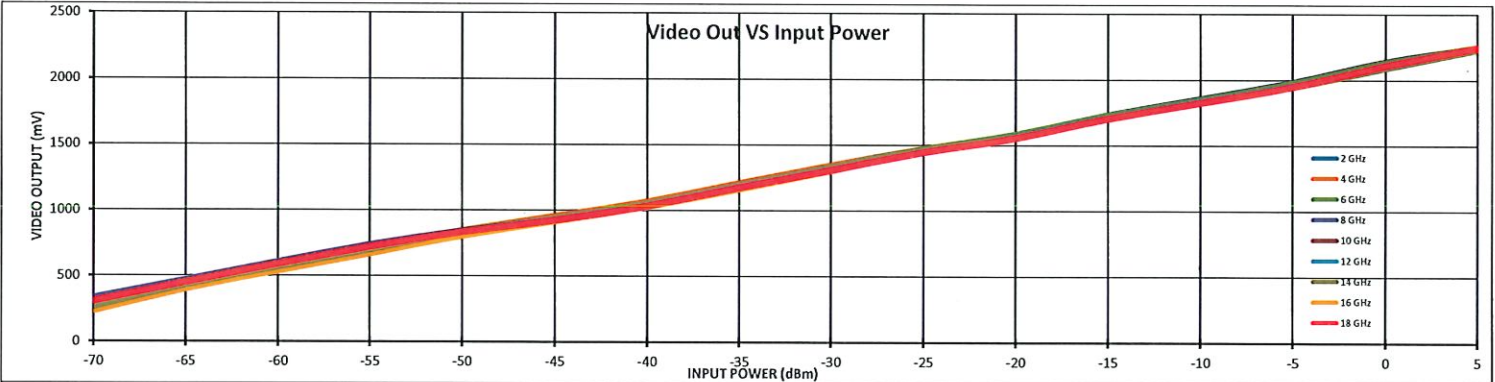
PL36658/2221

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36658/2221
Date: 6/9/2022
Tested By: RCombs
Test Temp: -40°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																
2 GHz	2129	26.4	1.0	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
	256	416	555	688	824	948	1063	1210	1349	1474	1587	1736	1860	1986	2144	2252	Measured Value (mV)	Measured Value (mV)		
	-27	1	9	10	14	6	-11	4	11	4	-14	2	-5	-10	15	-8	Error (mV)	Error (mV)		
	-1.03	0.05	0.33	0.36	0.53	0.21	-0.43	0.15	0.43	0.17	-0.54	0.09	-0.18	-0.39	0.57	-0.31	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
4 GHz	2116	25.6	0.9	312	455	594	724	848	957	1069	1212	1348	1474	1586	1732	1854	1979	2137	2256	
	-11	4	15	17	12	-6	-22	-8	1	-2	-18	0	-6	-9	20	11	Measured Value (mV)	Measured Value (mV)		
	-0.42	0.17	0.57	0.67	0.49	-0.25	-0.86	-0.29	0.03	-0.08	-0.70	0.02	-0.23	-0.35	0.79	0.44	Error (mV)	Error (mV)		
	-0.42	0.17	0.57	0.67	0.49	-0.25	-0.86	-0.29	0.03	-0.08	-0.70	0.02	-0.23	-0.35	0.79	0.44	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
6 GHz	2110	25.5	1.4	322	463	601	732	845	944	1054	1197	1338	1472	1586	1732	1852	1975	2132	2254	
	-3	11	21	24	10	-18	-36	-21	-7	-1	-14	5	-2	-7	22	16	Measured Value (mV)	Measured Value (mV)		
	-0.11	0.41	0.81	0.95	0.40	-0.72	-1.41	-0.81	-0.28	-0.03	-0.54	0.19	-0.09	-0.27	0.87	0.64	Error (mV)	Error (mV)		
	-0.11	0.41	0.81	0.95	0.40	-0.72	-1.41	-0.81	-0.28	-0.03	-0.54	0.19	-0.09	-0.27	0.87	0.64	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
8 GHz	2091	25.1	1.6	336	474	610	741	846	938	1047	1190	1330	1467	1571	1718	1837	1957	2111	2243	
	0	13	23	29	9	-25	-41	-24	-9	3	-18	3	-3	-8	20	27	Measured Value (mV)	Measured Value (mV)		
	0.01	0.50	0.93	1.16	0.35	-0.98	-1.63	-0.95	-0.33	0.12	-0.73	0.12	-0.12	-0.33	0.79	1.08	Error (mV)	Error (mV)		
	0.01	0.50	0.93	1.16	0.35	-0.98	-1.63	-0.95	-0.33	0.12	-0.73	0.12	-0.12	-0.33	0.79	1.08	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
10 GHz	2094	25.6	1.1	289	438	577	706	831	932	1042	1182	1319	1460	1570	1717	1836	1956	2104	2239	
	-13	7	18	20	17	-10	-29	-17	-7	5	-13	7	-2	-10	9	17	Measured Value (mV)	Measured Value (mV)		
	-0.51	0.28	0.71	0.77	0.66	-0.40	-1.13	-0.65	-0.28	0.21	-0.49	0.28	-0.08	-0.40	0.37	0.67	Error (mV)	Error (mV)		
	-0.51	0.28	0.71	0.77	0.66	-0.40	-1.13	-0.65	-0.28	0.21	-0.49	0.28	-0.08	-0.40	0.37	0.67	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
12 GHz	2087	25.4	1.4	301	445	583	711	830	924	1033	1171	1309	1457	1567	1714	1833	1952	2096	2237	
	-6	11	22	23	15	-18	-35	-25	-15	6	-11	9	1	-8	9	23	Measured Value (mV)	Measured Value (mV)		
	-0.22	0.44	0.88	0.90	0.60	-0.71	-1.43	-1.00	-0.59	0.23	-0.44	0.34	0.02	-0.30	0.36	0.92	Error (mV)	Error (mV)		
	-0.22	0.44	0.88	0.90	0.60	-0.71	-1.43	-1.00	-0.59	0.23	-0.44	0.34	0.02	-0.30	0.36	0.92	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
14 GHz	2094	25.7	1.1	265	421	561	691	827	939	1050	1192	1332	1462	1564	1710	1829	1949	2093	2235	
	-28	0	11	13	19	3	-14	-1	10	12	-15	3	-7	-16	-1	13	Measured Value (mV)	Measured Value (mV)		
	-1.07	-0.01	0.42	0.49	0.75	0.11	-0.56	-0.04	0.38	0.47	-0.60	0.10	-0.28	-0.63	-0.03	0.49	Error (mV)	Error (mV)		
	-1.07	-0.01	0.42	0.49	0.75	0.11	-0.56	-0.04	0.38	0.47	-0.60	0.10	-0.28	-0.63	-0.03	0.49	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
16 GHz	2101	26.5	0.9	221	390	527	659	796	907	1018	1154	1294	1447	1567	1715	1834	1955	2107	2246	
	-24	12	16	15	20	-2	-23	-20	-12	8	-4	11	-2	-14	6	12	Measured Value (mV)	Measured Value (mV)		
	-0.92	0.45	0.62	0.58	0.75	-0.07	-0.87	-0.74	-0.44	0.32	-0.17	0.43	-0.09	-0.54	0.23	0.45	Error (mV)	Error (mV)		
	-0.92	0.45	0.62	0.58	0.75	-0.07	-0.87	-0.74	-0.44	0.32	-0.17	0.43	-0.09	-0.54	0.23	0.45	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
18 GHz	2086	25.4	1.47	306	450	590	721	834	924	1034	1175	1309	1446	1555	1704	1826	1950	2110	2248	
	-4	13	26	30	16	-21	-37	-23	-15	-6	-23	-1	6	-9	25	35	Measured Value (mV)	Measured Value (mV)		
	-0.16	0.51	1.03	1.18	0.65	-0.82	-1.47	-0.90	-0.61	-0.23	-0.92	-0.03	-0.25	-0.36	0.97	1.40	Error (mV)	Error (mV)		
	-0.16	0.51	1.03	1.18	0.65	-0.82	-1.47	-0.90	-0.61	-0.23	-0.92	-0.03	-0.25	-0.36	0.97	1.40	LINEARITY ERROR (dB)	LINEARITY ERROR (dB)		
Avg. Slope: 25.7 mV/dB				2.2	1.6	1.6	1.6	1	1	1	1.1	1.1	0.6	0.6	0.6	0.7	0.7	1	0.4	Flatness dB: ±2.2 dB

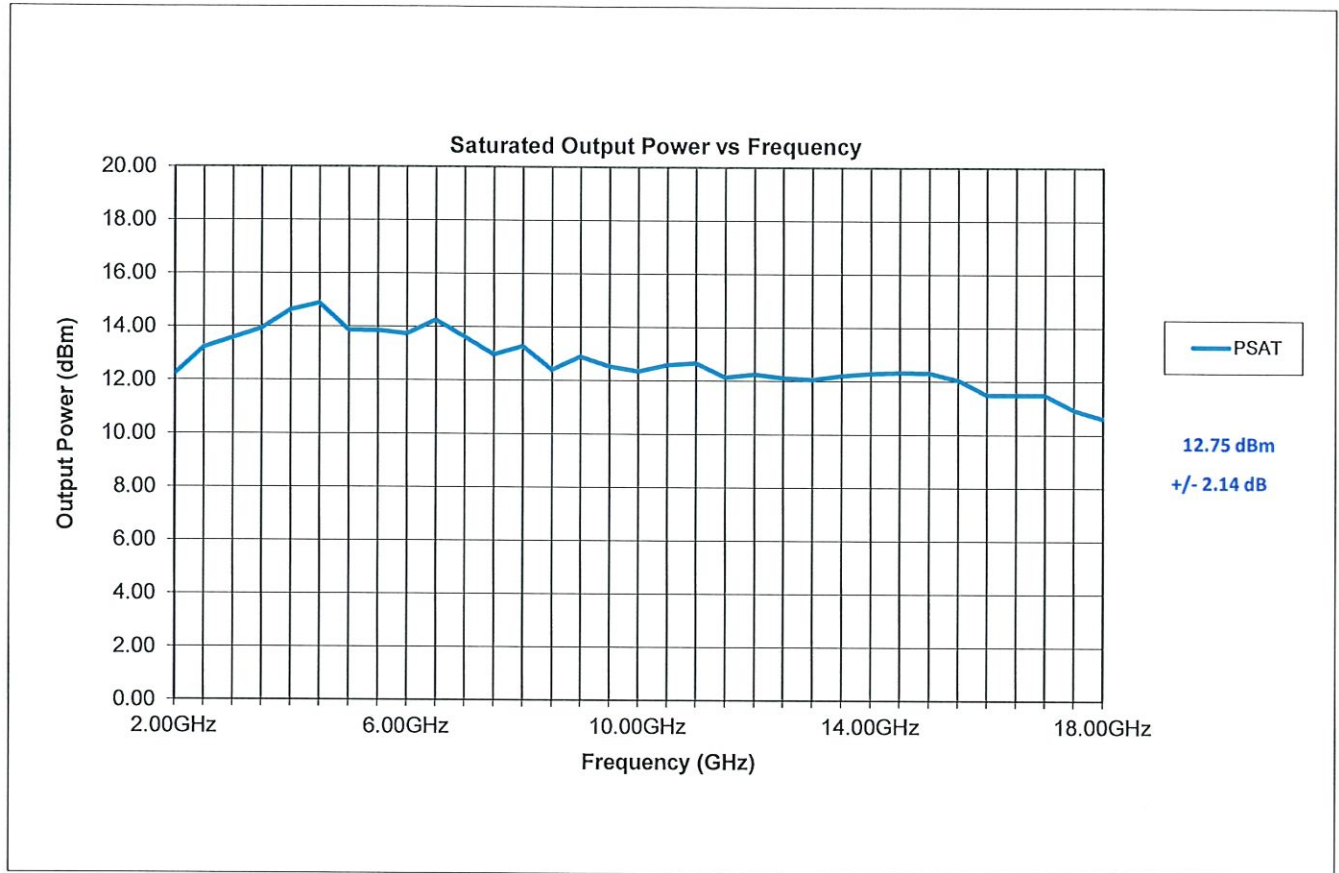




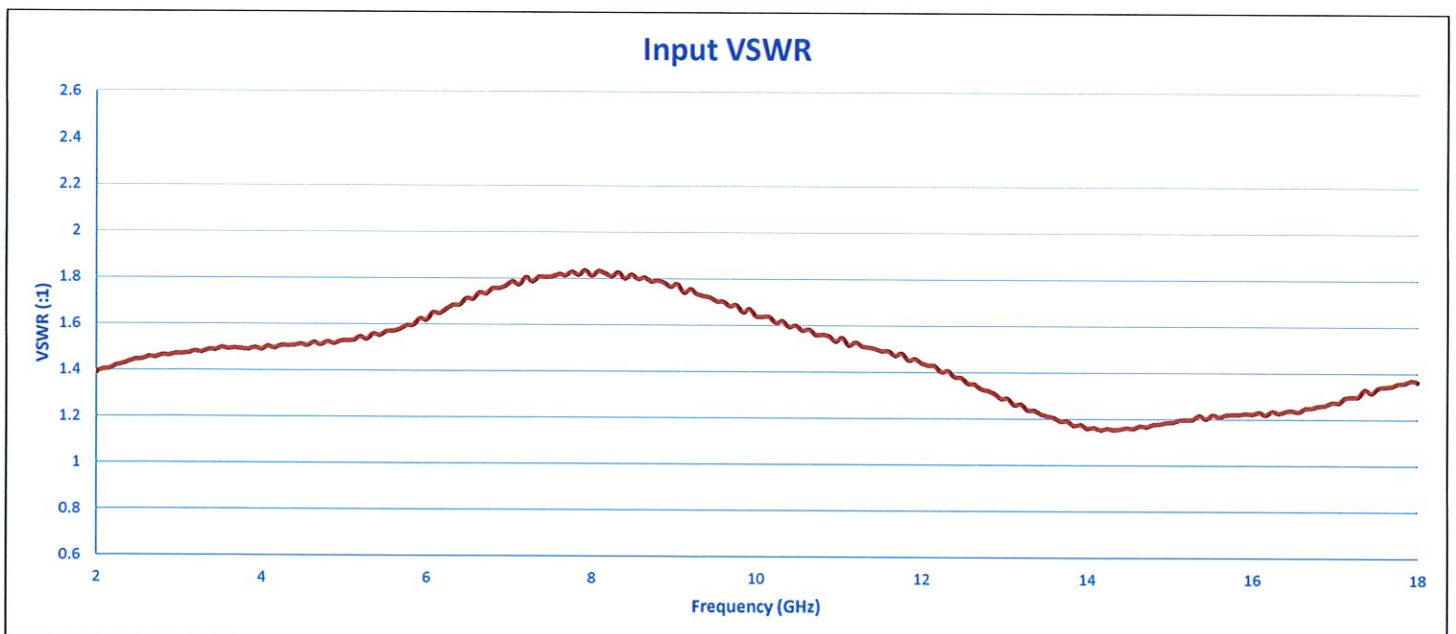
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36658/2221

PSAT



INPUT VSWR

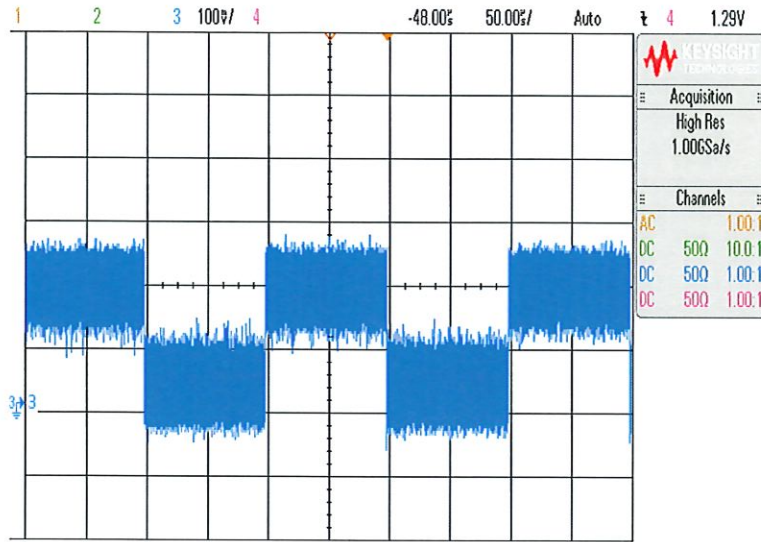




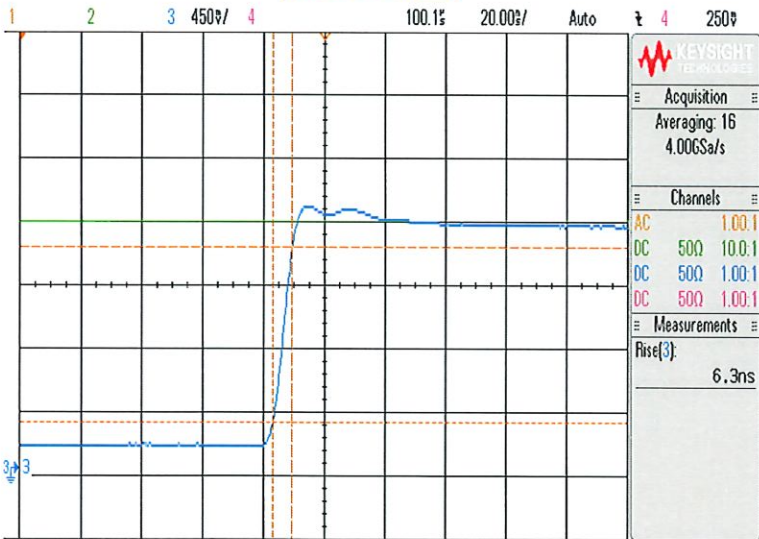
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36658/2221

TSS



Rise Time



Fall Time

