



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

PL36336/2217

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/28/2022
 Serial No: PL36336/2217 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	13.70 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.3 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)	±1.8 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	5.3 ns	
12	Recovery Time:	60 ns Typical	41. ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 259 mA -12V @ 99 mA	PMI QA 2

QA/QC Approval: _____

PMI
QA 2

Date: 4/29/2022



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

PL36336/2217

Log Transfer Over Frequency +25°C

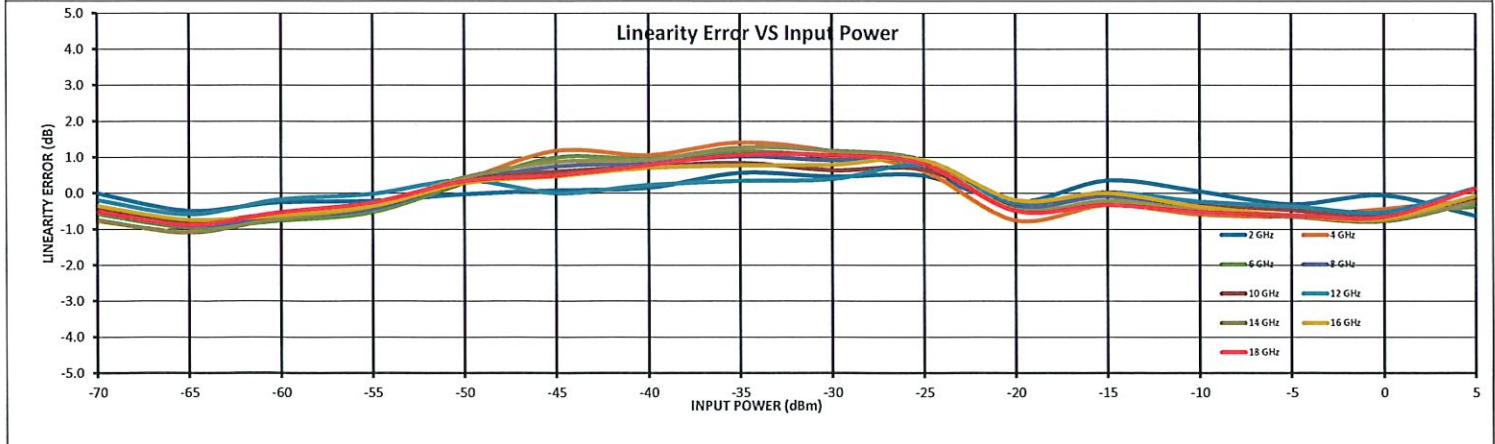
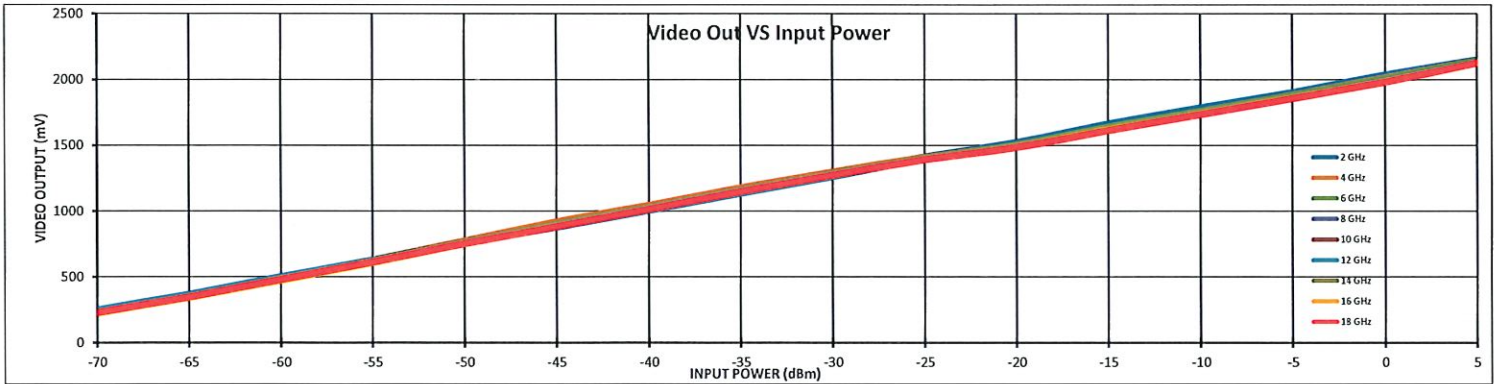


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36336/2217
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2045	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2045	257	372	506	635	767	897	1027	1165	1290	1419	1528	1671	1791	1909	2044	2167	Measured Value (mV)
	SLOPE (mV/dB)	25.5	0	-12	-6	-5	-1	2	4	15	12	13	-6	9	1	-8	-1	-16	Error (mV)
	LIN. ERR. (dB)	0.6	0.00	-0.49	-0.24	-0.21	-0.02	0.08	0.16	0.57	0.46	0.49	-0.24	0.36	0.06	-0.30	-0.05	-0.62	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2031	247	365	502	633	780	927	1050	1185	1304	1416	1508	1645	1765	1889	2020	2153	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-19	-27	-17	-11	9	30	27	36	29	15	-19	-8	-15	-16	-11	-5	Error (mV)
	LIN. ERR. (dB)	1.4	-0.76	-1.07	-0.67	-0.44	0.37	1.19	1.06	1.42	1.17	0.61	-0.75	-0.32	-0.58	-0.63	-0.43	-0.18	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2031	223	342	475	609	758	904	1031	1164	1289	1411	1509	1646	1764	1887	2017	2150	Measured Value (mV)
	SLOPE (mV/dB)	25.6	-14	-24	-19	-13	7	26	25	30	26	20	-10	-1	-11	-16	-14	-9	Error (mV)
	LIN. ERR. (dB)	1.2	-0.56	-0.95	-0.75	-0.52	0.29	1.00	0.96	1.17	1.03	0.79	-0.40	-0.04	-0.44	-0.64	-0.56	-0.36	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	2015	226	343	476	608	754	892	1021	1153	1277	1404	1499	1632	1751	1873	1999	2136	Measured Value (mV)
	SLOPE (mV/dB)	25.4	-13	-23	-17	-11	8	19	21	26	23	23	-9	-2	-11	-15	-16	-6	Error (mV)
	LIN. ERR. (dB)	1.0	-0.51	-0.89	-0.65	-0.43	0.33	0.75	0.84	1.04	0.92	0.91	-0.34	-0.08	-0.41	-0.61	-0.63	-0.23	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2009	228	345	477	610	753	886	1016	1145	1266	1393	1496	1630	1749	1871	1993	2132	Measured Value (mV)
	SLOPE (mV/dB)	25.3	-10	-20	-14	-8	9	15	19	21	16	17	-7	1	-7	-12	-16	-4	Error (mV)
	LIN. ERR. (dB)	0.9	-0.40	-0.79	-0.55	-0.33	0.35	0.61	0.74	0.85	0.65	0.66	-0.29	0.03	-0.29	-0.46	-0.63	-0.14	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2001	248	363	498	627	761	877	1008	1136	1262	1396	1495	1627	1746	1868	1989	2130	Measured Value (mV)
	SLOPE (mV/dB)	25.0	-5	-15	-4	0	9	0	6	9	10	19	-7	1	-6	-9	-13	4	Error (mV)
	LIN. ERR. (dB)	0.8	-0.18	-0.58	-0.17	-0.01	0.37	0.00	0.23	0.35	0.39	0.77	-0.26	0.02	-0.23	-0.35	-0.51	0.16	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	2009	234	351	487	620	766	902	1029	1163	1286	1405	1496	1628	1747	1868	1990	2129	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-19	-27	-17	-9	11	22	23	32	30	23	-12	-6	-12	-16	-19	-6	Error (mV)
	LIN. ERR. (dB)	1.3	-0.74	-1.09	-0.69	-0.36	0.44	0.87	0.93	1.28	1.19	0.91	-0.46	-0.20	-0.47	-0.63	-0.78	-0.23	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	2010	213	331	462	596	740	873	1007	1136	1264	1395	1495	1627	1745	1867	1992	2136	Measured Value (mV)
	SLOPE (mV/dB)	25.5	-9	-19	-16	-9	7	12	18	20	20	24	-5	0	-9	-15	-18	-2	Error (mV)
	LIN. ERR. (dB)	0.9	-0.35	-0.74	-0.61	-0.35	0.29	0.47	0.71	0.78	0.80	0.92	-0.18	0.01	-0.37	-0.60	-0.71	-0.07	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1998	230	346	480	612	753	882	1015	1147	1272	1392	1484	1614	1735	1858	1982	2127	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-13	-22	-13	-6	9	12	20	27	27	20	-12	8	-13	-15	-16	4	Error (mV)
	LIN. ERR. (dB)	1.1	-0.51	-0.87	-0.52	-0.26	0.34	0.50	0.79	1.08	1.06	0.81	-0.49	-0.32	-0.51	-0.60	-0.65	0.14	LINEARITY ERROR (dB)

Avg. Slope: 25.3 mV/dB

Flatness dB: ±1.2 dB





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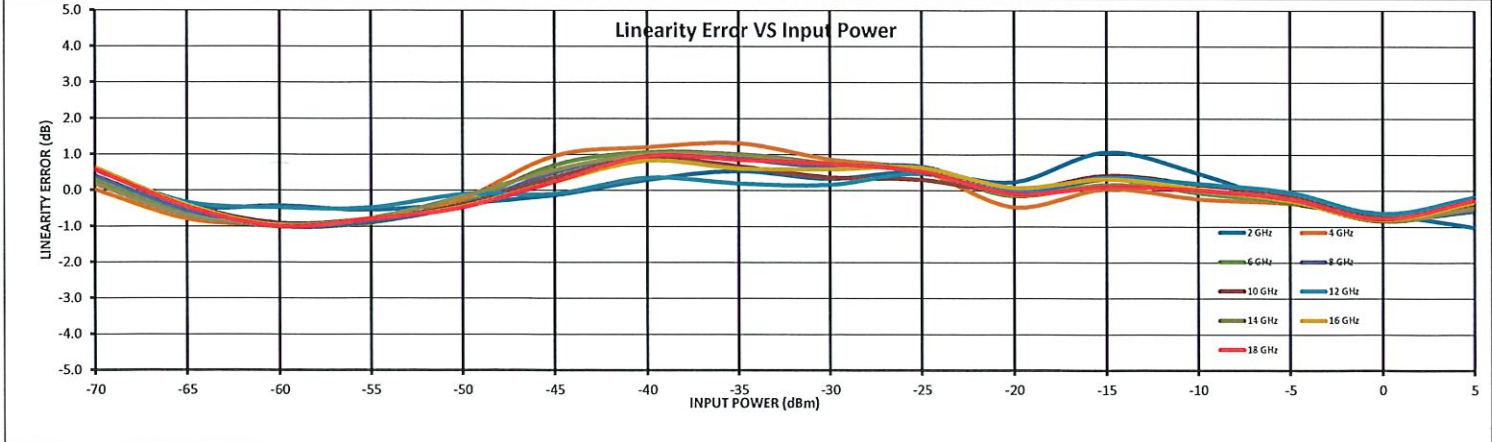
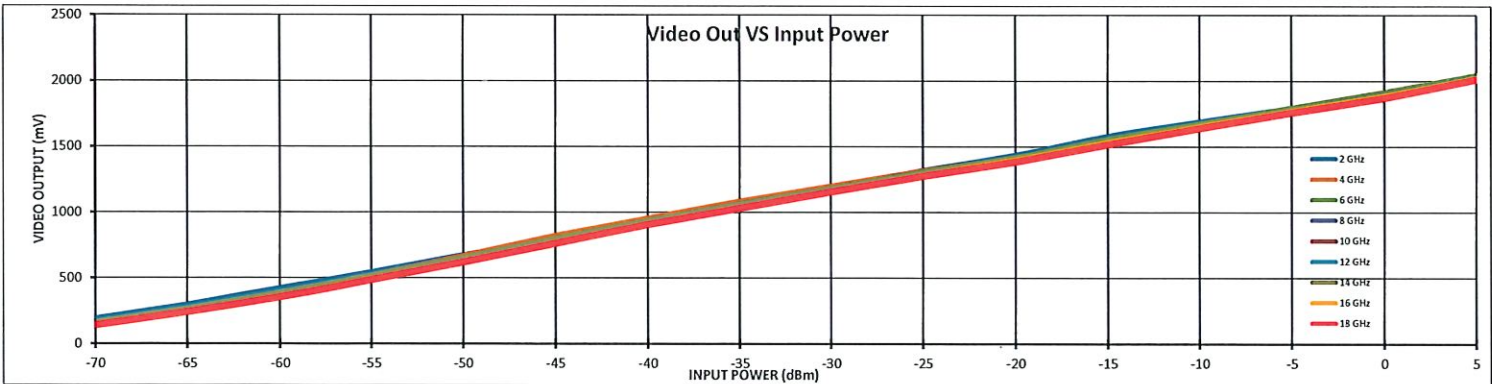
PL36336/2217

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36336/2217
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +85°C

Frequency	INTERCEPT (mV)	1926	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	1926	194	298	423	544	673	803	938	1069	1188	1318	1435	1580	1690	1794	1911	2025	Measured Value (mV)
	SLOPE (mV/dB)	24.9	9	-11	-11	-14	-9	-3	7	14	8	13	6	27	12	-8	-16	-25	ERROR (mV)
	LIN. ERR. (dB)	1.1	0.36	-0.45	-0.43	-0.54	-0.37	-0.13	0.30	0.55	0.34	0.54	0.24	1.07	0.49	-0.33	-0.62	-1.01	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1931	170	276	398	525	667	823	955	1084	1198	1316	1417	1555	1674	1797	1916	2046	Measured Value (mV)
	SLOPE (mV/dB)	25.2	1	-20	-24	-23	-6	24	30	33	22	14	-11	1	-6	-9	-16	-12	ERROR (mV)
	LIN. ERR. (dB)	1.3	0.03	-0.79	-0.94	-0.90	-0.25	0.97	1.20	1.32	0.87	0.56	-0.46	0.05	-0.22	-0.35	-0.63	-0.46	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1931	156	259	377	507	648	803	939	1065	1185	1309	1418	1557	1675	1795	1913	2044	Measured Value (mV)
	SLOPE (mV/dB)	25.5	8	-16	-26	-23	-9	18	27	26	18	15	-4	8	-1	-8	-18	-14	ERROR (mV)
	LIN. ERR. (dB)	1.1	0.29	-0.63	-1.01	-0.90	-0.36	0.71	1.07	1.00	0.70	0.59	-0.15	0.32	-0.06	-0.31	-0.71	-0.57	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1916	151	253	368	498	637	787	927	1051	1172	1299	1408	1544	1663	1782	1897	2029	Measured Value (mV)
	SLOPE (mV/dB)	25.4	10	-14	-25	-22	-10	13	26	23	16	17	-1	8	1	-7	-20	-14	ERROR (mV)
	LIN. ERR. (dB)	1.0	0.41	-0.55	-1.00	-0.88	-0.41	0.50	1.01	0.89	0.65	0.68	-0.02	0.32	0.03	-0.27	-0.78	-0.56	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1908	148	250	364	494	630	777	917	1038	1157	1282	1401	1538	1659	1778	1889	2024	Measured Value (mV)
	SLOPE (mV/dB)	25.3	14	-10	-23	-20	-10	9	23	17	9	8	0	11	4	-3	-19	-11	ERROR (mV)
	LIN. ERR. (dB)	0.9	0.57	-0.41	-0.92	-0.78	-0.40	0.37	0.90	0.68	0.37	0.30	-0.01	0.43	0.17	-0.11	-0.74	-0.42	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1902	169	272	393	518	652	777	913	1034	1158	1290	1403	1537	1658	1776	1886	2023	Measured Value (mV)
	SLOPE (mV/dB)	25.0	14	-8	-12	-12	-3	-2	9	6	4	12	0	9	5	-1	-16	-4	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.56	-0.33	-0.47	-0.48	-0.11	-0.09	0.36	0.20	0.16	0.47	0.00	0.37	0.20	-0.04	-0.63	-0.17	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1908	158	261	380	510	650	794	931	1056	1175	1296	1403	1536	1657	1776	1887	2021	Measured Value (mV)
	SLOPE (mV/dB)	25.1	5	-18	-24	-19	-4	14	25	26	19	15	-3	4	0	-7	-21	-12	ERROR (mV)
	LIN. ERR. (dB)	1.0	0.18	-0.70	-0.95	-0.77	-0.17	0.58	1.01	1.02	0.76	0.60	-0.13	0.17	-0.02	-0.27	-0.84	-0.47	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1909	139	240	352	485	621	767	909	1032	1159	1287	1401	1535	1655	1775	1889	2029	Measured Value (mV)
	SLOPE (mV/dB)	25.5	16	-10	-25	-20	-12	6	21	16	15	16	2	8	1	-7	-20	-8	ERROR (mV)
	LIN. ERR. (dB)	1.0	0.64	-0.40	-0.99	-0.79	-0.46	0.24	0.83	0.62	0.59	0.64	0.09	0.33	0.05	-0.27	-0.80	-0.32	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1893	140	240	353	484	618	763	907	1031	1154	1275	1386	1517	1641	1761	1873	2012	Measured Value (mV)
	SLOPE (mV/dB)	25.2	16	-11	-25	-20	-12	6	24	22	19	13	-2	3	1	6	-20	-6	ERROR (mV)
	LIN. ERR. (dB)	1.0	0.58	-0.45	-1.00	-0.79	-0.47	0.24	0.96	0.86	0.75	0.53	-0.09	0.11	0.02	-0.23	-0.78	-0.25	LINEARITY ERROR (dB)
Avg. Slope: 25.2 mV/dB			1.1	1.2	1.4	1.2	1.1	1.2	0.9	1.1	0.9	0.8	1	1.2	1	0.7	0.8	0.7	Flatness dB: ±1.4 dB





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

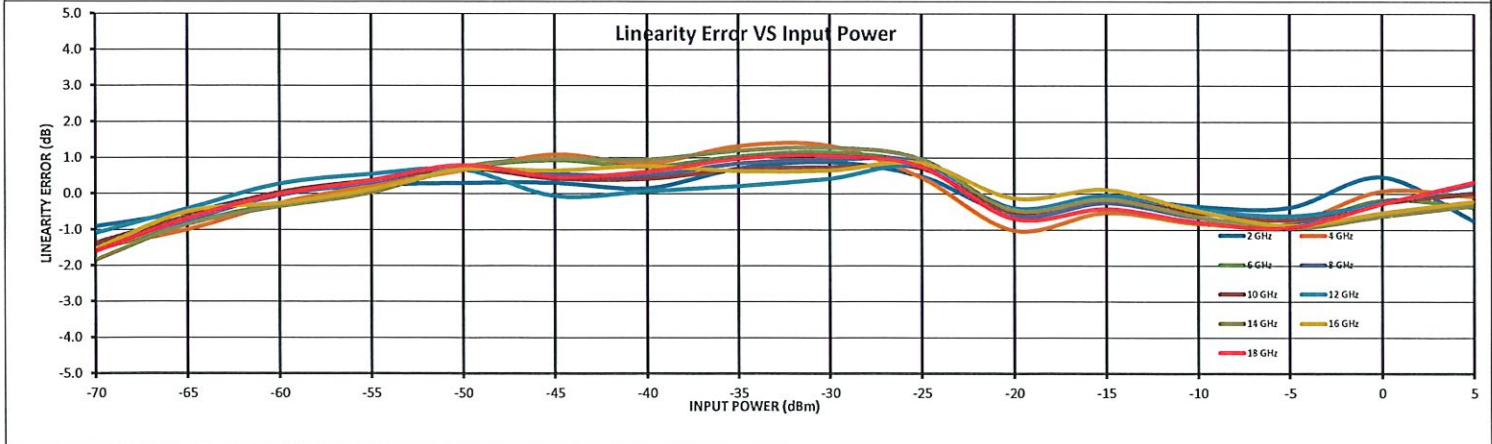
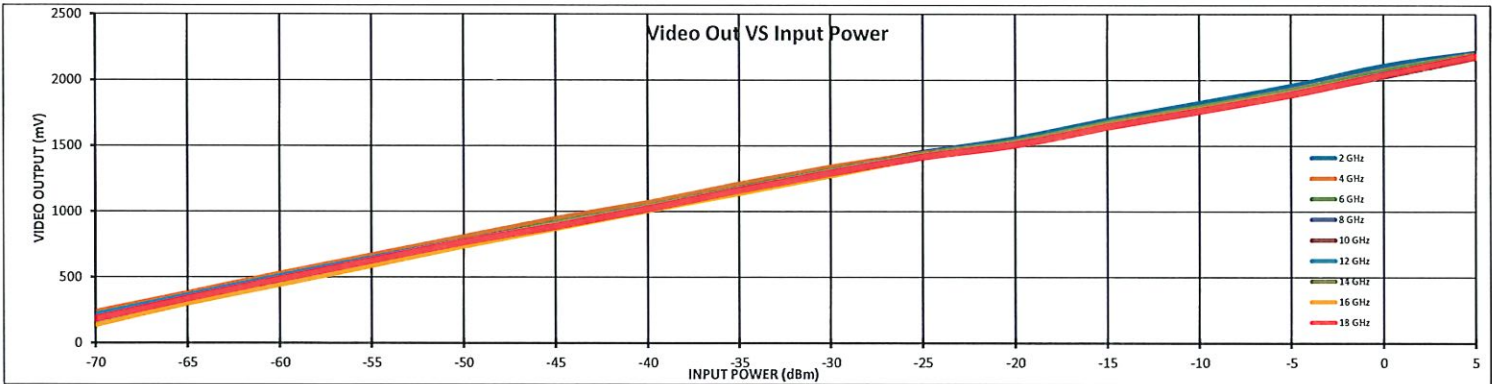
PL36336/2217

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36336/2217
Date: 4/28/2022
Tested By: RCombs
Test Temp: -40°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	RF Input Power (dBm)																
2 GHz	2097	26.4	0.9	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				225	367	513	651	785	917	1045	1192	1328	1450	1554	1698	1823	1955	2109	2209	
																				Measured Value (mV)
4 GHz	2073	25.7	1.5	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				237	379	526	666	806	946	1068	1209	1337	1443	1533	1674	1795	1923	2075	2199	
																				Measured Value (mV)
6 GHz	2074	26.3	1.6	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				188	340	486	627	776	913	1040	1180	1314	1436	1533	1674	1793	1919	2070	2196	
																				Measured Value (mV)
8 GHz	2054	25.9	1.5	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				203	351	499	638	778	903	1031	1170	1302	1429	1521	1659	1778	1903	2049	2185	
																				Measured Value (mV)
10 GHz	2051	25.9	1.4	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				205	353	500	638	776	898	1027	1163	1294	1423	1521	1661	1779	1903	2045	2181	
																				Measured Value (mV)
12 GHz	2042	25.8	1.1	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				210	356	503	639	771	881	1013	1146	1280	1418	1517	1655	1774	1898	2036	2179	
																				Measured Value (mV)
14 GHz	2057	26.3	1.8	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				167	325	469	611	762	899	1030	1168	1302	1425	1519	1658	1777	1900	2041	2180	
																				Measured Value (mV)
16 GHz	2058	26.9	1.5	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				135	297	438	582	732	866	1004	1134	1269	1409	1517	1658	1776	1900	2044	2187	
																				Measured Value (mV)
18 GHz	2046	26.0	1.598	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	
				185	338	485	626	767	888	1022	1162	1294	1416	1508	1645	1766	1892	2039	2185	
																				Measured Value (mV)
Avg. Slope: 26.1 mV/dB				2	1.6	1.7	1.6	1.4	1.5	1.2	1.4	1.3	0.8	0.9	1	1.1	1.2	1.4	0.6	Flatness dB: ±2 dB

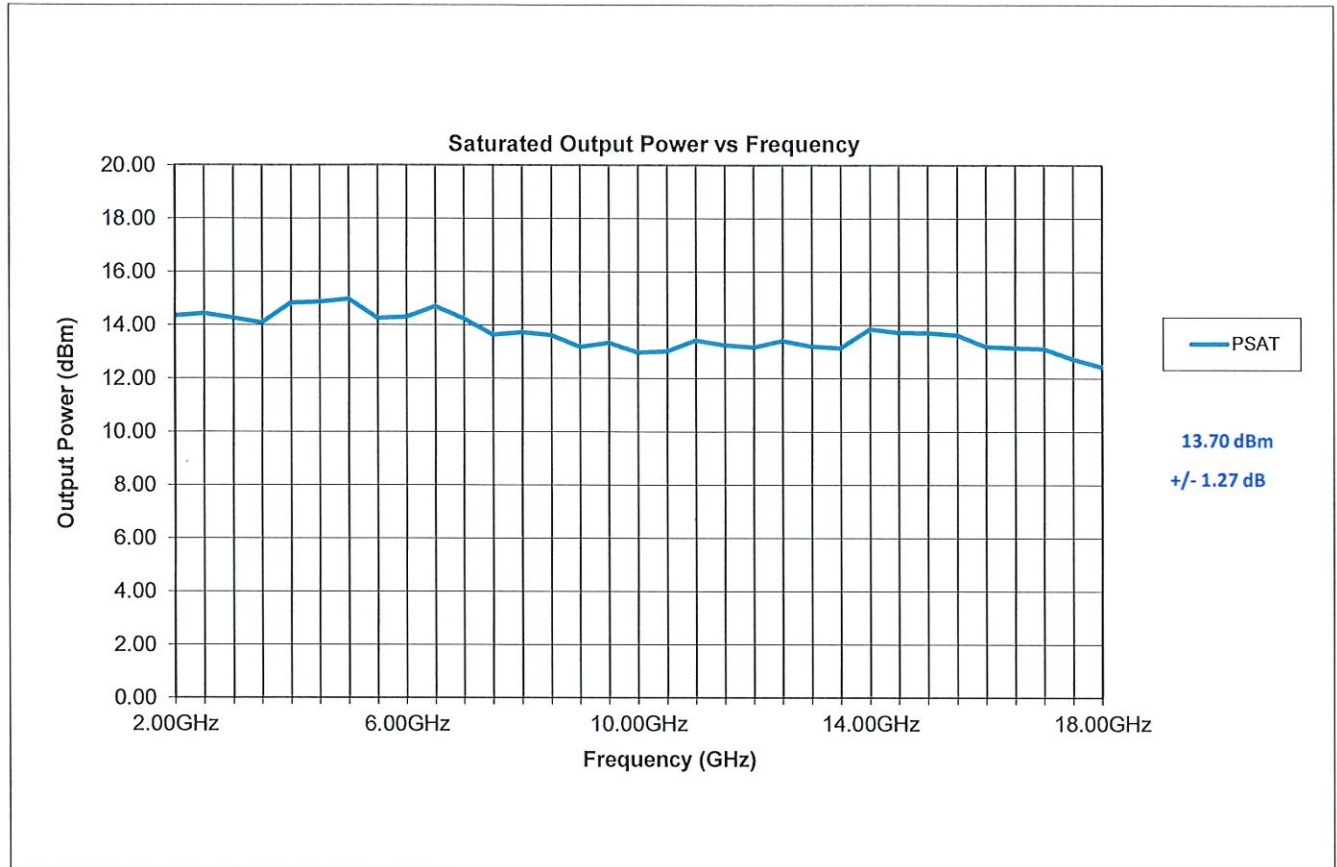




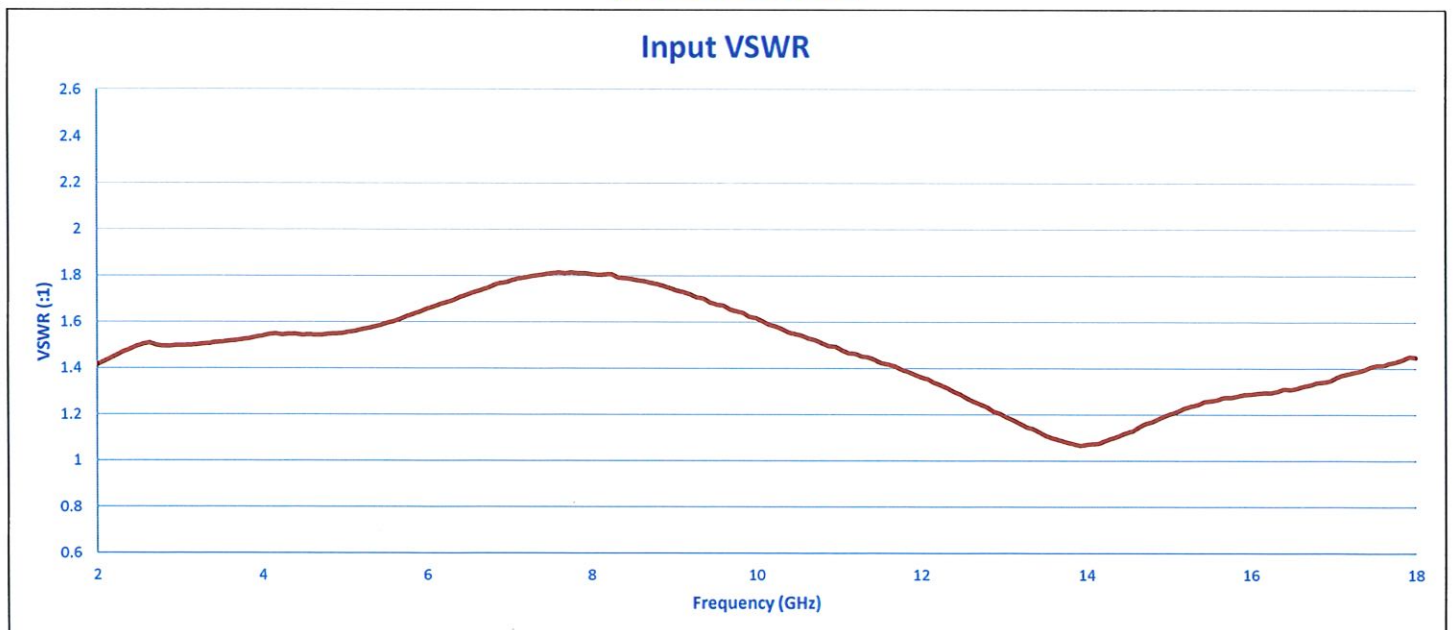
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PL36336/2217

PSAT



INPUT VSWR

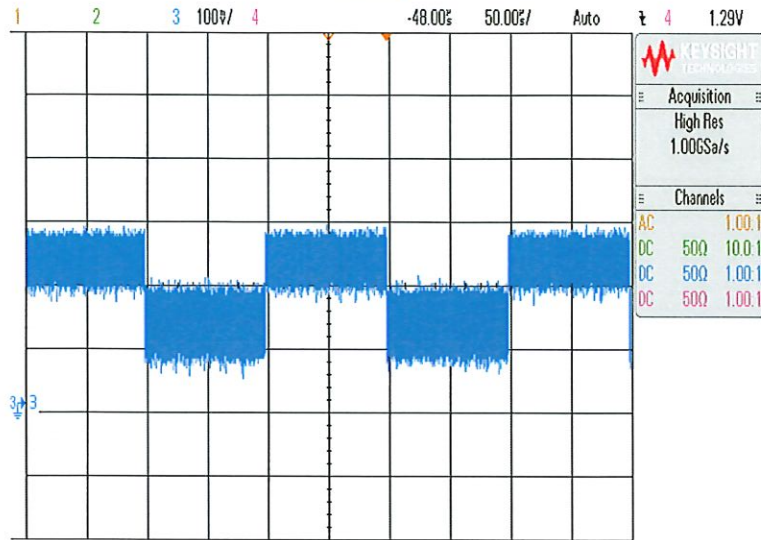




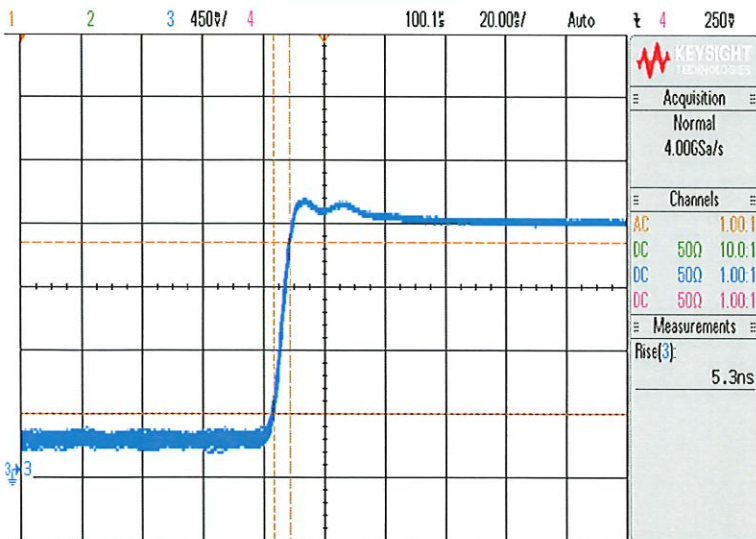
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36336/2217

TSS



Rise Time



Fall Time

