



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

PL36332/2217

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/22/2022
Serial No: PL36332/2217 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	±1.4 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	13.10 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)	±1.5 dB See Plots		
10	Pulse Range:	30 ns to CW	Pass		
11	Rise Time:	10 ns (6 ns Typical)	6.0 ns		
12	Recovery Time:	60 ns Typical	42.5 ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 262 mA -12V @ 99 mA		PMI QA 2

QA/QC Approval:  _____ PMI QA 2 Date: 4/25/2022



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

PL36332/2217

Log Transfer Over Frequency +25°C

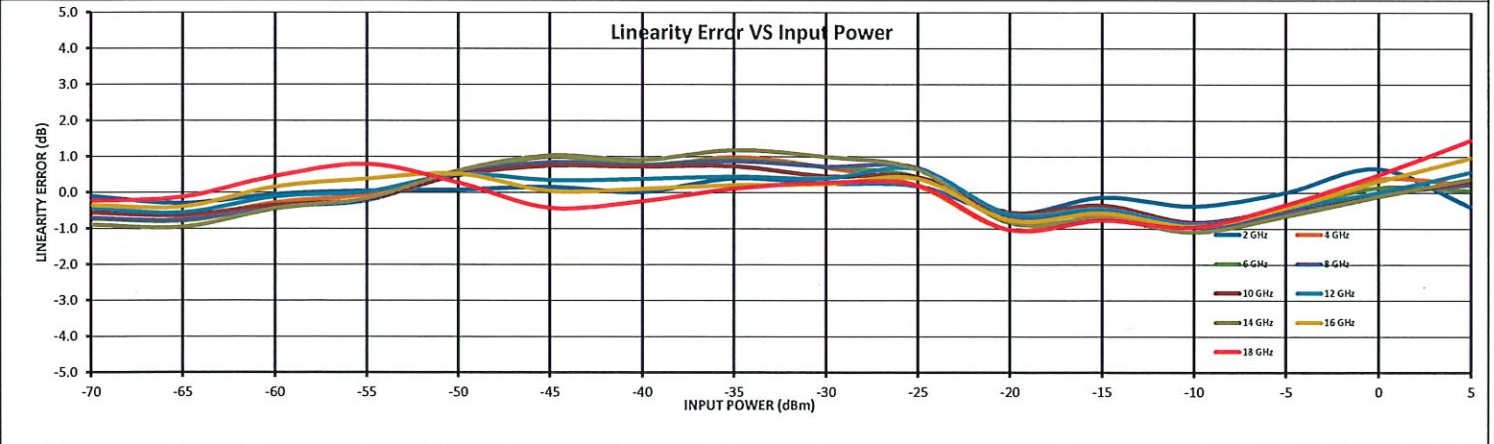
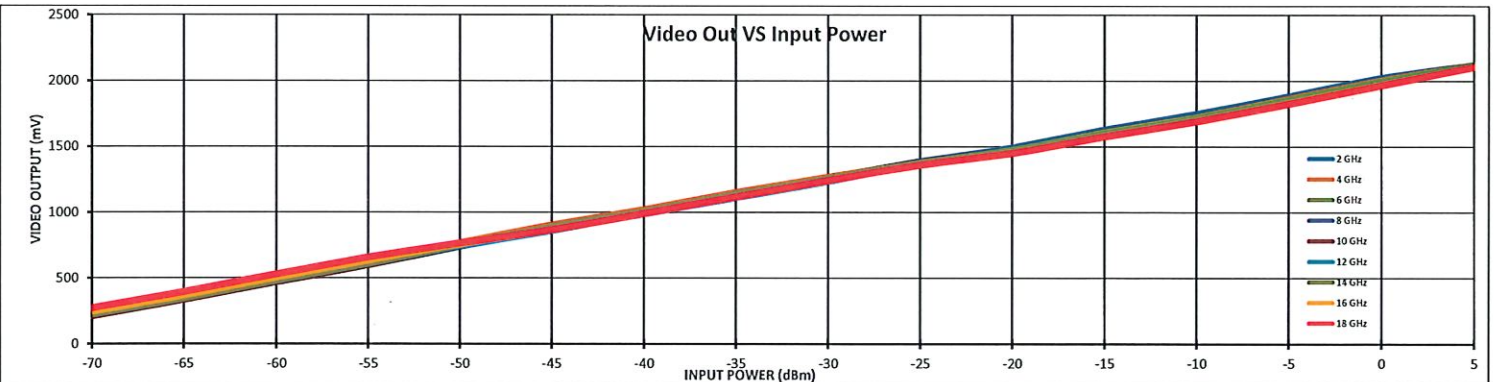


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36332/2217
 Date: 4/22/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2013	-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)	25.0	263	383	514	641	767	894	1015	1149	1271	1394	1499	1636	1754	1889	2030	2128	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-2	-7	-1	2	4	1	10	7	5	-16	-3	-9	0	17	-10	6	ERROR (mV)
				-0.09	-0.29	-0.04	0.06	0.08	0.17	0.03	0.40	0.26	0.19	-0.58	-0.12	-0.37	0.01	0.67	-0.39
4 GHz	SLOPE (mV/dB)	24.8	247	370	506	635	773	909	1027	1167	1274	1386	1479	1613	1729	1889	2010	2130	Measured Value (mV)
	LIN. ERR. (dB)	1.0	-18	-18	-7	-1	13	25	18	25	17	5	-26	-16	-24	-8	10	6	ERROR (mV)
			-0.73	-0.74	-0.27	-0.05	0.51	1.00	0.72	0.99	0.70	0.20	-1.03	-0.63	-0.95	-0.33	0.38	0.23	0.6
6 GHz	SLOPE (mV/dB)	25.2	215	339	475	606	751	889	1010	1140	1260	1379	1477	1610	1723	1862	2003	2127	Measured Value (mV)
	LIN. ERR. (dB)	1.0	-18	-20	-10	-5	13	25	20	24	18	11	-18	-11	-23	-11	4	2	ERROR (mV)
			-0.72	-0.78	-0.40	-0.20	0.53	1.01	0.79	0.94	0.72	0.44	-0.71	-0.43	-0.93	-0.45	0.14	0.06	0.6
8 GHz	SLOPE (mV/dB)	25.1	208	332	467	607	741	875	998	1127	1249	1373	1466	1595	1708	1844	1983	2115	Measured Value (mV)
	LIN. ERR. (dB)	1.0	-18	-19	-10	-5	13	21	19	22	18	17	-16	-12	-24	-14	-1	6	ERROR (mV)
			-0.70	-0.75	-0.40	-0.21	0.53	0.85	0.76	0.89	0.73	0.70	-0.62	-0.48	-0.96	-0.56	-0.03	0.23	0.6
10 GHz	SLOPE (mV/dB)	25.1	205	329	462	592	734	866	991	1117	1236	1361	1462	1592	1705	1841	1977	2111	Measured Value (mV)
	LIN. ERR. (dB)	0.8	-14	-16	-9	-5	12	19	18	19	12	11	-14	-9	-21	-11	-1	8	ERROR (mV)
			-0.55	-0.62	-0.34	-0.18	0.49	0.75	0.73	0.75	0.46	0.44	-0.54	-0.35	-0.83	-0.44	-0.05	0.31	0.6
12 GHz	SLOPE (mV/dB)	24.8	225	346	481	608	744	864	989	1114	1237	1368	1461	1588	1701	1836	1971	2109	Measured Value (mV)
	LIN. ERR. (dB)	0.9	-11	-14	-3	1	13	9	10	11	10	17	-14	-11	-21	-11	0	14	ERROR (mV)
			-0.43	-0.55	-0.10	0.03	0.51	0.35	0.39	0.46	0.67	-0.58	-0.45	-0.87	-0.44	0.01	0.58	0.6	0.6
14 GHz	SLOPE (mV/dB)	24.7	223	345	482	613	756	890	1010	1141	1260	1376	1462	1589	1703	1838	1975	2111	Measured Value (mV)
	LIN. ERR. (dB)	1.2	-22	-24	-11	-4	16	26	23	30	25	16	-21	-17	-27	-16	-3	10	ERROR (mV)
			-0.89	-0.95	-0.45	-0.15	0.62	1.04	0.91	1.19	1.00	0.65	-0.84	-0.70	-1.09	-0.64	-0.10	0.39	0.6
16 GHz	SLOPE (mV/dB)	24.6	239	361	498	626	753	864	988	1114	1238	1365	1459	1587	1701	1837	1978	2117	Measured Value (mV)
	LIN. ERR. (dB)	1.0	-9	-10	4	10	13	1	3	5	6	10	-19	-14	-23	-10	8	24	ERROR (mV)
			-0.35	-0.39	0.17	0.39	0.53	0.05	0.11	0.22	0.24	0.39	-0.76	-0.55	-0.93	-0.41	0.32	0.97	0.6
18 GHz	SLOPE (mV/dB)	23.9	273	396	529	657	764	867	991	1120	1243	1361	1451	1577	1692	1827	1967	2110	Measured Value (mV)
	LIN. ERR. (dB)	1.5	-5	-3	11	19	7	-10	-6	3	7	5	-25	-18	-23	-8	12	35	ERROR (mV)
			-0.23	-0.12	0.45	0.80	0.28	-0.42	-0.24	0.12	0.28	0.21	-1.03	-0.77	-0.96	-0.34	0.50	1.47	0.6

Avg. Slope: 24.8 mV/dB

1.4 1.3 1.4 1.3 0.8 0.9 0.8 0.9 0.8 0.7 1 1.2 1.2 1.2 1.3 0.4 Flatness dB: ±1.4 dB





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

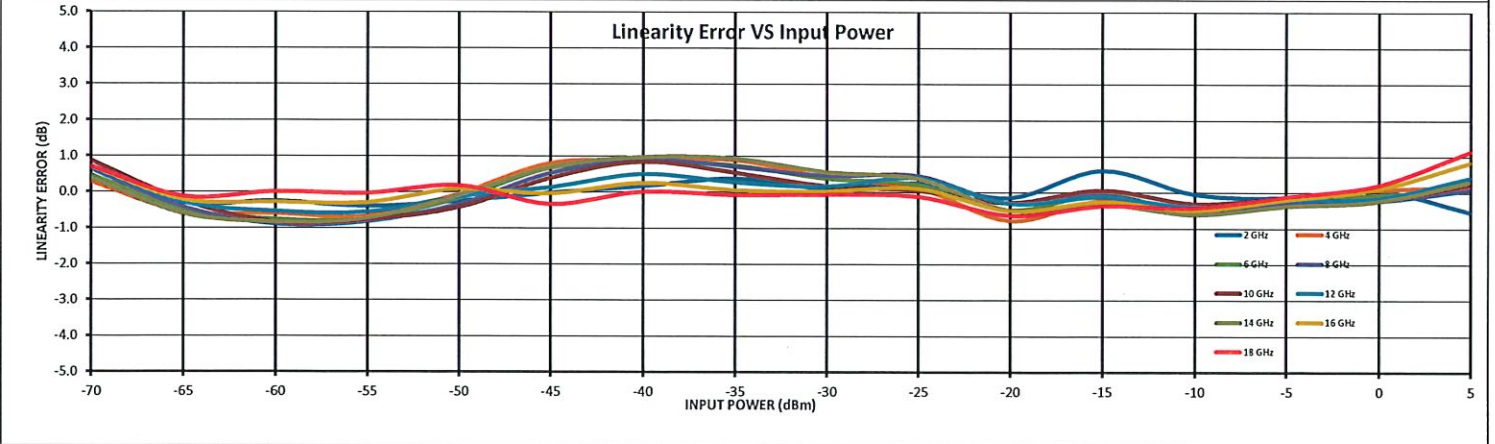
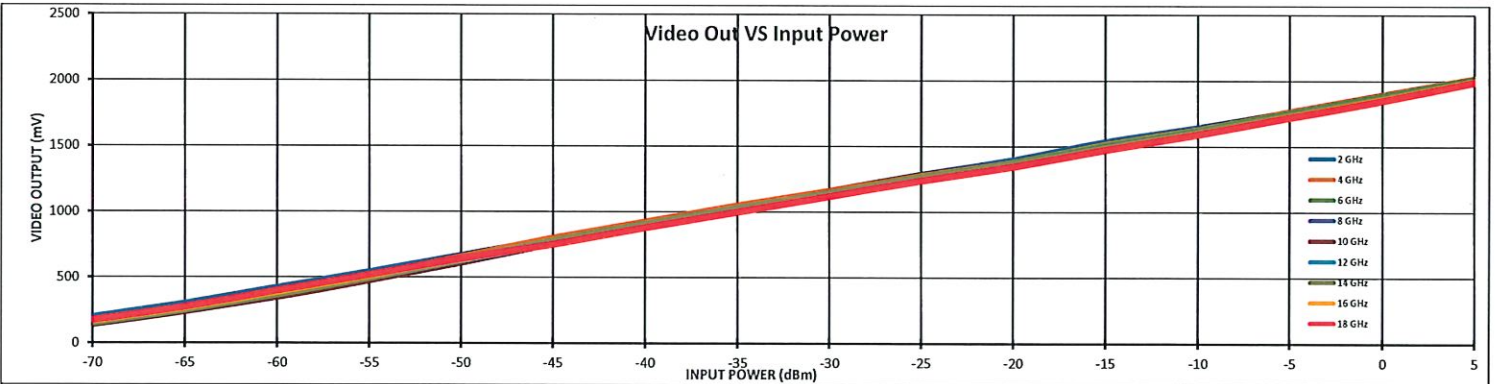
PL36332/2217

Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL36332/2217
Date: 4/22/2022
Tested By: RCombs
Test Temp: +85°C

Log Transfer Over Frequency +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	1891	24.3	0.6	202	305	428	546	670	798	924	1050	1165	1290	1402	1542	1647	1766	1892	1999	Measured Value (mV)	
				11	-7	-6	-10	-6	0	4	9	3	6	-3	15	-1	-3	2	-13	4	ERROR (mV)
				0.44	-0.30	-0.25	-0.39	-0.25	-0.02	0.17	0.39	0.11	0.26	-0.14	0.62	-0.04	-0.13	0.07	-0.54	0.16	LINEARITY ERROR (dB)
4 GHz	1896	24.7	0.9	174	277	399	521	660	804	929	1054	1165	1282	1383	1520	1634	1768	1898	2023	Measured Value (mV)	
				7	-14	-15	-17	-1	20	21	22	10	3	-19	-5	-15	-4	2	4	2	ERROR (mV)
				0.29	-0.56	-0.59	-0.67	-0.06	0.81	0.86	0.90	0.42	0.13	-0.78	-0.22	-0.61	-0.17	0.09	0.16	0.16	LINEARITY ERROR (dB)
6 GHz	1892	25.0	0.9	154	255	373	499	638	784	914	1036	1152	1273	1380	1516	1629	1762	1890	2019	Measured Value (mV)	
				12	-12	-19	-18	-4	17	22	19	10	6	-12	-1	-13	-5	-2	2	2	ERROR (mV)
				0.48	-0.48	-0.75	-0.73	-0.17	0.68	0.87	0.75	0.38	0.22	-0.48	-0.03	-0.52	-0.21	-0.06	0.07	0.07	LINEARITY ERROR (dB)
8 GHz	1878	25.0	0.9	141	240	353	480	618	765	899	1019	1138	1263	1370	1501	1615	1745	1872	2005	Measured Value (mV)	
				16	-11	-22	-20	-8	13	23	18	12	12	-7	-1	-12	-8	-6	2	2	ERROR (mV)
				0.64	-0.42	-0.89	-0.81	-0.34	0.54	0.91	0.72	0.46	0.46	-0.30	-0.06	-0.48	-0.31	-0.23	0.09	0.09	LINEARITY ERROR (dB)
10 GHz	1869	25.1	0.9	135	233	343	471	605	750	887	1005	1121	1244	1361	1495	1611	1740	1865	2000	Measured Value (mV)	
				22	-6	-21	-19	-11	10	21	14	4	2	-7	2	-8	-4	-5	6	6	ERROR (mV)
				0.87	-0.24	-0.84	-0.76	-0.43	0.39	0.85	0.85	0.17	0.06	-0.28	0.07	-0.31	-0.15	-0.19	0.23	0.23	LINEARITY ERROR (dB)
12 GHz	1864	24.7	0.7	155	254	371	494	628	758	890	1008	1128	1257	1363	1491	1608	1736	1861	1998	Measured Value (mV)	
				17	-7	-13	-14	-3	3	13	7	4	10	-7	-3	-10	-5	-4	11	11	ERROR (mV)
				0.71	-0.29	-0.53	-0.55	-0.12	0.14	0.51	0.28	0.17	0.40	-0.30	-0.11	-0.40	-0.20	-0.15	0.43	0.43	LINEARITY ERROR (dB)
14 GHz	1870	24.7	1.0	162	251	369	495	634	777	907	1029	1144	1262	1364	1492	1608	1737	1864	2001	Measured Value (mV)	
				9	-16	-20	-18	-2	17	24	23	14	9	-12	-8	-15	-9	-6	8	8	ERROR (mV)
				0.38	-0.60	-0.83	-0.72	-0.08	0.70	0.98	0.94	0.57	0.38	-0.50	-0.32	-0.61	-0.37	-0.24	0.31	0.31	LINEARITY ERROR (dB)
16 GHz	1862	24.5	0.8	161	261	382	505	637	756	886	1004	1126	1251	1359	1487	1604	1735	1865	2005	Measured Value (mV)	
				18	-5	-7	-7	2	-1	6	1	1	3	-12	-6	-12	-5	3	21	21	ERROR (mV)
				0.72	-0.20	-0.28	-0.29	0.09	-0.03	0.26	0.06	0.03	0.11	-0.50	-0.25	-0.48	-0.19	0.11	0.84	0.84	LINEARITY ERROR (dB)
18 GHz	1844	24.1	1.1	175	275	399	518	644	762	881	999	1120	1239	1347	1474	1593	1721	1849	1992	Measured Value (mV)	
				17	-3	0	-1	4	-8	0	-2	-1	-3	-15	-9	-10	-3	5	28	28	ERROR (mV)
				0.72	-0.12	0.01	-0.03	0.18	-0.33	0.02	-0.07	-0.06	-0.11	-0.64	-0.37	-0.42	-0.11	0.21	1.14	1.14	LINEARITY ERROR (dB)
Avg. Slope: 24.7 mV/dB				1.3	1.5	1.7	1.5	1.3	1.1	1.1	1.1	0.9	1	1.1	1.4	1.1	1	1	0.6	0.6	Flatness dB: ±1.7 dB





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

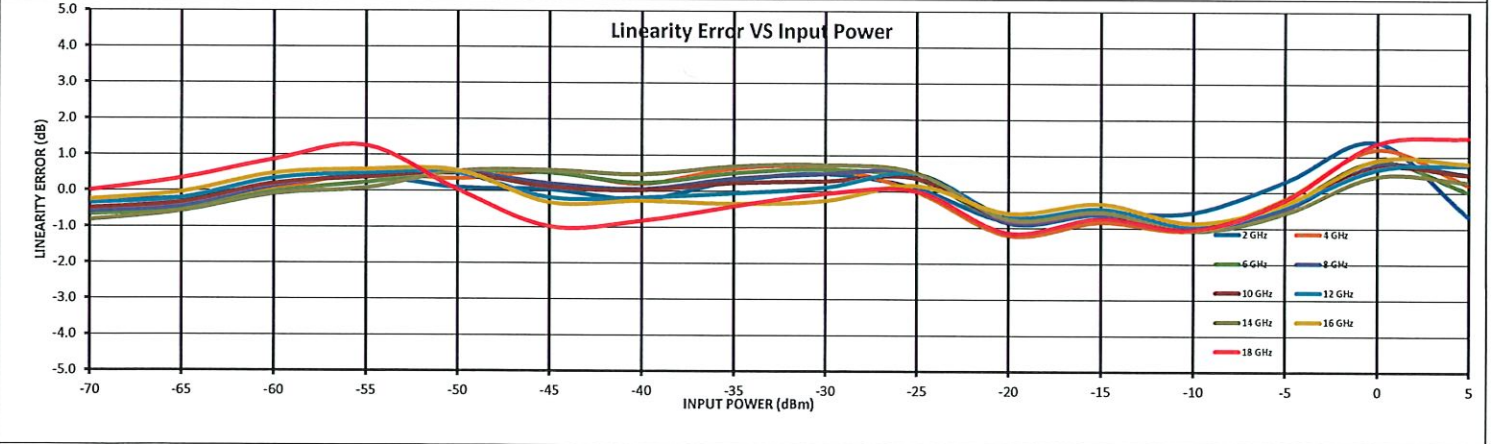
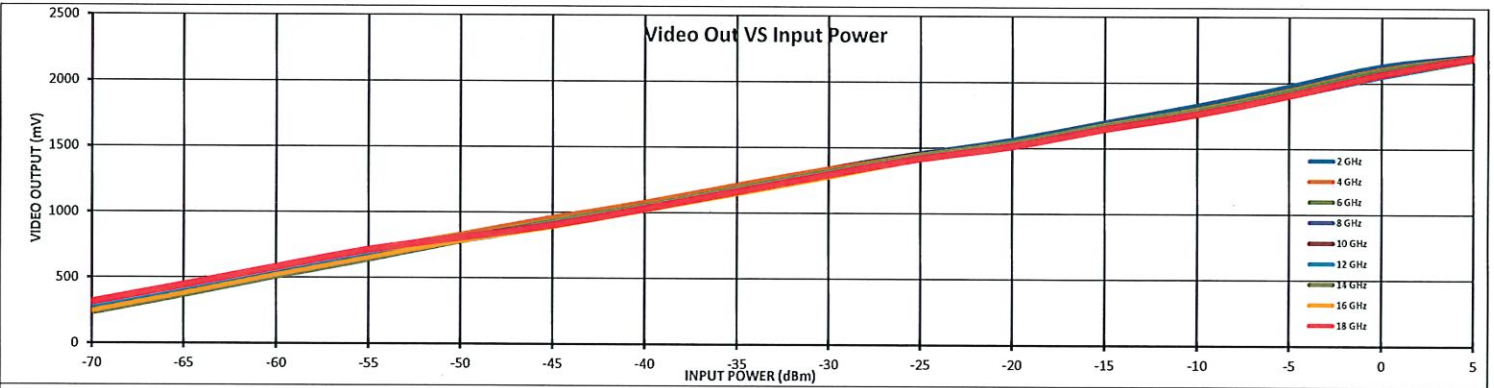
PL36332/2217

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36332/2217
 Date: 4/22/2022
 Tested By: RCombs
 Test Temp: -40°C

Frequency	INTERCEPT (mV)	2095	-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)	25.6	295	425	562	697	817	944	1065	1206	1339	1457	1562	1696	1825	1975	2131	2206	Measured Value (mV)
	LIN. ERR. (dB)	1.4	-7	-5	4	10	2	1	-6	8	13	3	-21	-15	-14	8	36	-17	ERROR (mV)
				-0.26	-0.20	0.14	0.41	0.10	0.05	-0.22	0.30	0.50	0.10	-0.82	-0.58	-0.55	0.30	1.40	-0.66
4 GHz	SLOPE (mV/dB)	25.0	305	435	571	708	830	959	1076	1212	1338	1447	1542	1676	1796	1943	2102	2203	Measured Value (mV)
	LIN. ERR. (dB)	1.2	-16	-10	1	12	9	13	5	16	17	0	-30	-21	-26	-4	30	5	ERROR (mV)
			-0.62	-0.42	0.03	0.47	0.35	0.53	0.21	0.64	0.67	0.01	-1.21	-0.84	-1.06	-0.18	1.21	0.21	
6 GHz	SLOPE (mV/dB)	25.6	261	392	533	668	803	931	1052	1187	1318	1440	1538	1672	1790	1935	2094	2200	Measured Value (mV)
	LIN. ERR. (dB)	1.0	-17	-14	0	6	14	13	6	13	16	9	-21	-15	-25	-9	22	1	ERROR (mV)
			-0.65	-0.53	-0.01	0.24	0.53	0.51	0.23	0.51	0.62	0.36	-0.81	-0.57	-0.99	-0.34	0.87	0.02	
8 GHz	SLOPE (mV/dB)	25.3	268	398	539	673	802	920	1043	1177	1307	1434	1525	1658	1773	1915	2073	2193	Measured Value (mV)
	LIN. ERR. (dB)	1.1	-15	-11	4	11	13	6	2	9	13	13	-22	-16	-27	-12	19	13	ERROR (mV)
			-0.58	-0.43	0.15	0.42	0.53	0.21	0.06	0.36	0.50	0.51	-0.86	-0.62	-1.07	-0.46	0.77	0.51	
10 GHz	SLOPE (mV/dB)	25.4	262	393	533	665	795	912	1037	1168	1297	1426	1524	1658	1773	1914	2068	2190	Measured Value (mV)
	LIN. ERR. (dB)	0.9	-12	-8	5	10	13	3	1	6	7	9	-19	-12	-24	-9	18	13	ERROR (mV)
			-0.48	-0.32	0.20	0.38	0.50	0.12	0.03	0.23	0.29	0.37	-0.75	-0.47	-0.95	-0.35	0.69	0.50	
12 GHz	SLOPE (mV/dB)	25.3	264	394	534	664	791	900	1027	1156	1287	1423	1520	1651	1766	1906	2059	2188	Measured Value (mV)
	LIN. ERR. (dB)	0.9	-9	-5	9	12	13	-4	-4	-1	3	13	-17	-12	-24	-9	16	19	ERROR (mV)
			-0.34	-0.20	0.35	0.49	0.50	-0.18	-0.17	-0.05	0.12	0.50	-0.67	-0.46	-0.94	-0.37	0.65	0.77	
14 GHz	SLOPE (mV/dB)	25.6	239	374	514	647	787	916	1041	1175	1305	1428	1523	1656	1771	1912	2067	2191	Measured Value (mV)
	LIN. ERR. (dB)	1.1	-21	-15	-2	2	14	15	12	18	19	14	-19	-14	-28	-16	12	8	ERROR (mV)
			-0.82	-0.57	-0.08	0.09	0.55	0.58	0.47	0.70	0.75	0.53	-0.76	-0.55	-1.08	-0.58	0.46	0.30	
16 GHz	SLOPE (mV/dB)	25.6	249	383	524	655	782	887	1016	1142	1273	1411	1520	1654	1769	1911	2070	2195	Measured Value (mV)
	LIN. ERR. (dB)	0.9	-6	-1	12	15	15	-8	-7	-9	-7	4	-15	-8	-22	-8	23	21	ERROR (mV)
			-0.24	-0.04	0.48	0.60	0.57	-0.31	-0.27	-0.34	-0.28	0.17	-0.59	-0.33	-0.86	-0.31	0.31	0.51	
18 GHz	SLOPE (mV/dB)	24.6	314	445	581	713	806	904	1030	1163	1295	1420	1514	1647	1763	1906	2067	2195	Measured Value (mV)
	LIN. ERR. (dB)	1.53	0	8	21	31	1	-24	-20	-10	-1	0	-28	-18	-26	-5	38	38	ERROR (mV)
			0.01	0.34	0.87	1.26	0.04	-0.99	-0.83	-0.42	-0.06	0.01	-1.14	-0.74	-1.04	-0.22	1.36	1.53	
Avg. Slope: 25.3 mV/dB			1.5	1.4	1.3	1.3	0.9	1.4	1.2	1.4	1.3	0.9	0.9	1	1.2	1.4	1.4	0.4	Flatness dB: ±1.5 dB

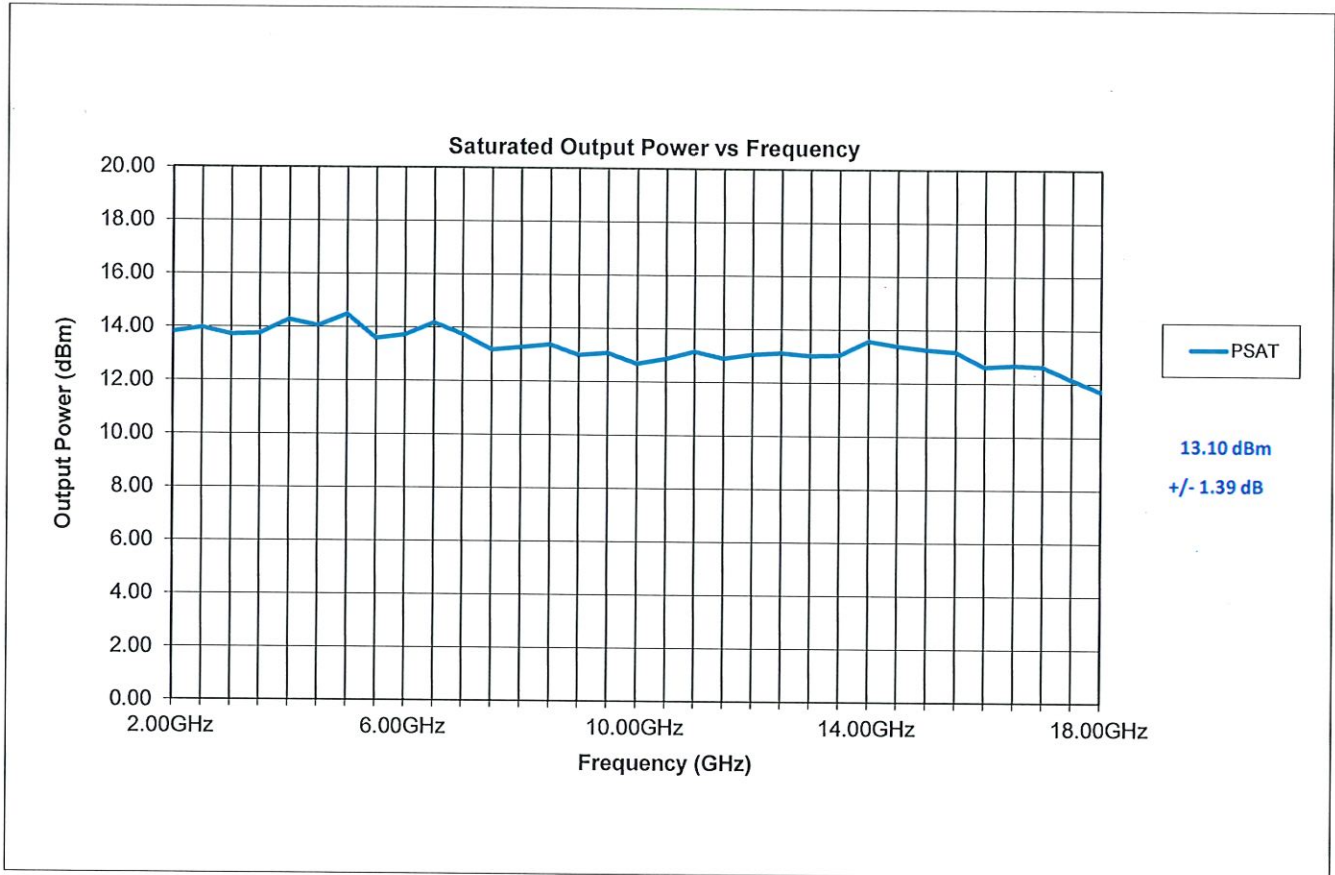




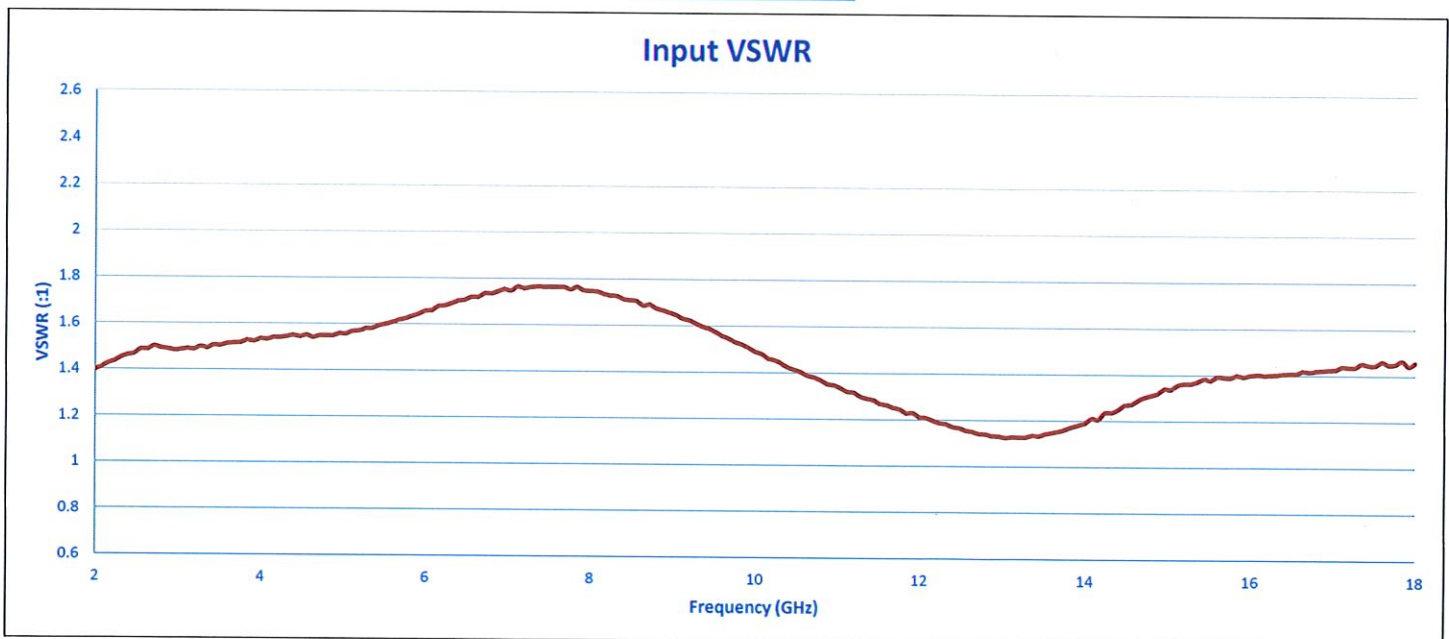
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36332/2217

PSAT



INPUT VSWR

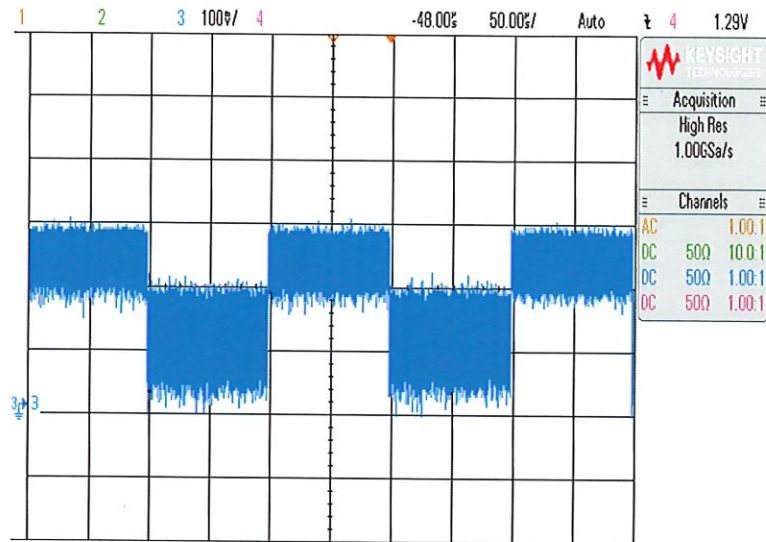




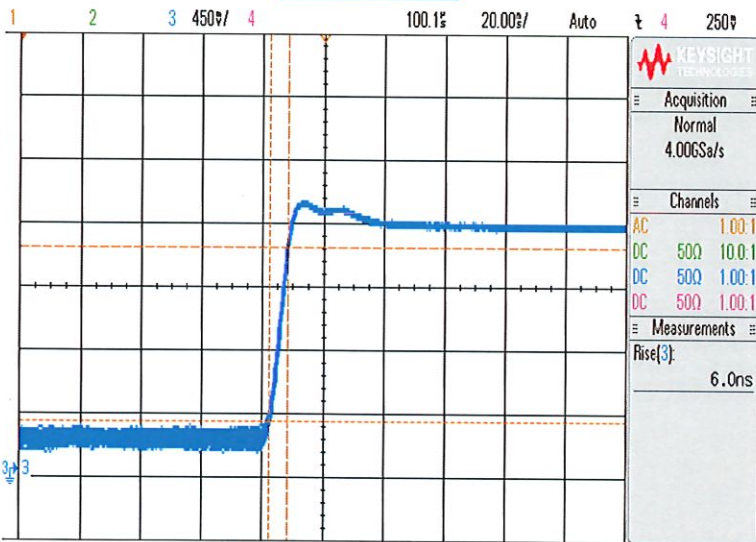
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36332/2217

TSS



Rise Time



Fall Time

