



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

PL41945/2335

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 8/31/2023
Serial No: PL41945/2335 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	±0.9 dB 25°C See Plots	
3	TSS:	-70 dBm Minimum	-72 dBm	
4	VSWR:	2.0:1 (Input)	1.5:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	11.17 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	25.6 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)	±1740.4 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.5 ns	
12	Recovery Time:	60 ns Typical	50.8 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 261 mA -12V @ 97 mA	PMI QA2

QA/QC Approval: _____

Camery Kelly

PMI
QA2

Date: _____



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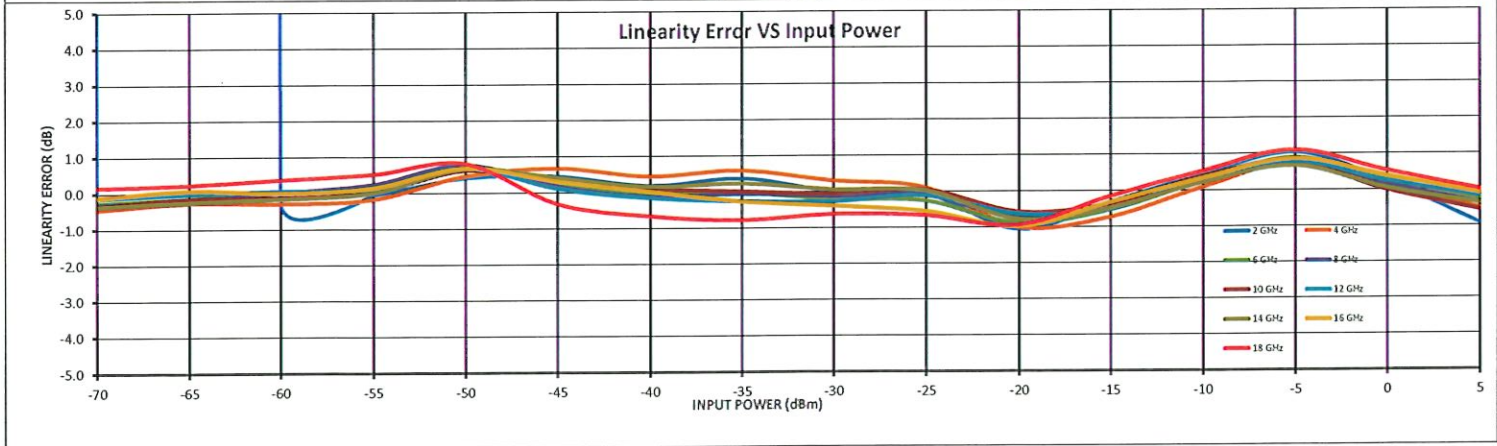
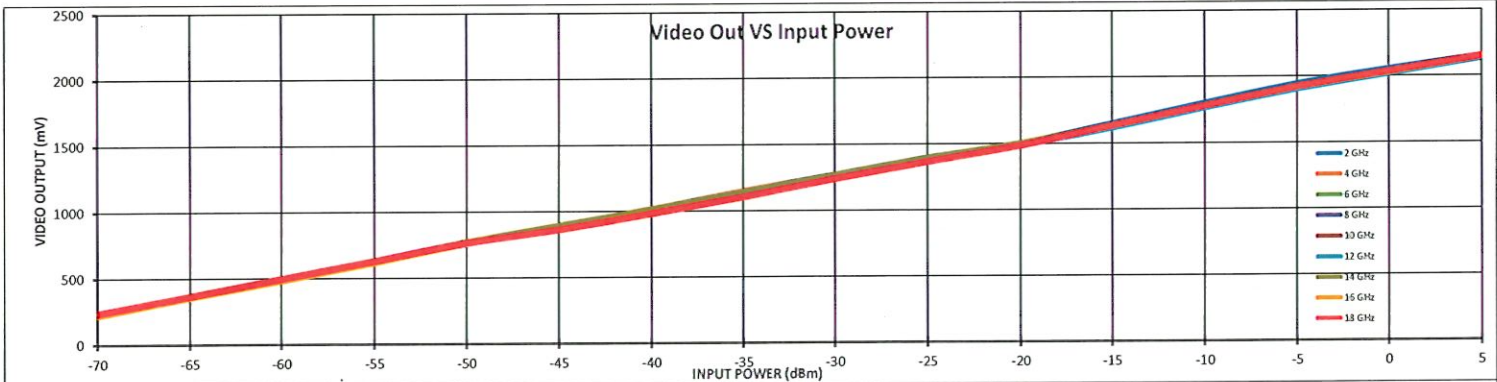
PL41945/2335

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL41945/2335
 Date: 8/31/2023
 Tested By: RCombs
 Test Temp: +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	2051	26.0	1737.9	223	357	487	621	763	893	1016	1151	1272	1400	1504	1653	1803	1948	2057	2157	Measured Value (mV)
				-9	45169	-5	-1	11	12	5	10	0	-2	-28	-8	11	27	6	-24	ERROR (mV)
				-0.33	1737.86	-0.18	-0.04	0.41	0.45	0.18	0.38	0.01	-0.07	-1.06	-0.32	0.43	1.03	0.22	-0.93	LINEARITY ERROR (dB)
4 GHz	2037	25.8	1.0	219	353	481	613	759	893	1016	1149	1271	1395	1495	1631	1781	1928	2041	2153	Measured Value (mV)
				-12	-7	-7	-5	12	17	11	15	8	2	-26	-19	2	19	3	-14	ERROR (mV)
				-0.46	-0.27	-0.29	-0.19	0.45	0.66	0.43	0.59	0.30	0.09	-1.01	-0.74	0.08	0.75	0.13	-0.53	LINEARITY ERROR (dB)
6 GHz	2029	25.5	0.9	238	369	500	632	773	889	1008	1136	1259	1385	1496	1633	1781	1924	2036	2150	Measured Value (mV)
				-7	-4	1	5	18	7	-1	0	-5	-7	-23	-14	6	23	7	-6	ERROR (mV)
				-0.26	-0.14	0.03	0.20	0.72	0.26	-0.05	-0.02	-0.21	-0.26	-0.90	-0.54	0.25	0.89	0.27	-0.24	LINEARITY ERROR (dB)
8 GHz	2022	25.3	0.8	240	369	502	634	774	886	1005	1134	1258	1386	1496	1630	1777	1916	2026	2139	Measured Value (mV)
				-8	-5	1	6	20	4	-3	-1	-3	-3	-19	-12	9	21	4	-9	ERROR (mV)
				-0.31	-0.20	0.02	0.24	0.77	0.17	-0.13	-0.05	-0.13	-0.11	-0.74	-0.47	0.34	0.82	0.15	-0.37	LINEARITY ERROR (dB)
10 GHz	2018	25.5	0.7	222	355	483	614	757	878	999	1125	1251	1381	1493	1626	1773	1910	2018	2132	Measured Value (mV)
				-9	-4	-3	0	16	8	2	0	-2	1	-15	-9	10	19	0	-14	ERROR (mV)
				-0.36	-0.15	-0.12	0.01	0.62	0.33	0.08	0.01	-0.06	0.04	-0.58	-0.37	0.38	0.75	-0.01	-0.56	LINEARITY ERROR (dB)
12 GHz	2016	25.4	0.8	232	362	491	620	761	874	995	1119	1246	1377	1491	1622	1770	1909	2022	2139	Measured Value (mV)
				-3	0	2	3	17	3	-4	-6	-7	-3	-16	-13	8	20	6	-5	ERROR (mV)
				-0.13	-0.02	0.06	0.12	0.68	0.11	-0.16	-0.25	-0.27	-0.12	-0.64	-0.51	0.31	0.77	0.23	-0.18	LINEARITY ERROR (dB)
14 GHz	2031	25.6	0.8	230	361	491	623	768	889	1011	1141	1264	1391	1499	1634	1780	1920	2032	2149	Measured Value (mV)
				-9	-6	-4	0	17	10	4	6	1	0	-20	-12	5	17	1	-9	ERROR (mV)
				-0.37	-0.25	-0.16	0.00	0.66	0.40	0.15	0.24	0.06	0.01	-0.79	-0.49	0.21	0.66	0.04	-0.37	LINEARITY ERROR (dB)
16 GHz	2034	26.0	1.0	211	346	474	607	751	872	994	1117	1243	1369	1488	1635	1782	1926	2044	2161	Measured Value (mV)
				-3	2	0	4	18	8	0	-7	-10	-15	-26	-9	8	22	10	-3	ERROR (mV)
				-0.12	0.07	0.00	0.14	0.68	0.31	0.01	-0.27	-0.40	-0.56	-0.99	-0.33	0.32	0.66	0.38	-0.10	LINEARITY ERROR (dB)
18 GHz	2022	25.6	1.1	233	363	495	627	762	861	980	1105	1237	1364	1485	1633	1779	1922	2035	2150	Measured Value (mV)
				4	6	9	13	21	-8	-17	-20	-16	-17	-24	-4	13	28	13	0	ERROR (mV)
				0.15	0.23	0.36	0.51	0.80	-0.32	-0.68	-0.79	-0.63	-0.67	-0.95	-0.16	0.52	1.09	0.52	0.01	LINEARITY ERROR (dB)
Avg. Slope: 25.6 mV/dB				0.6 0.5 0.5 0.5 0.4 0.6 0.7 0.9 0.7 0.7 0.4 0.6 0.6 0.8 0.8 0.6 Flatness dB: ±0.9 dB																





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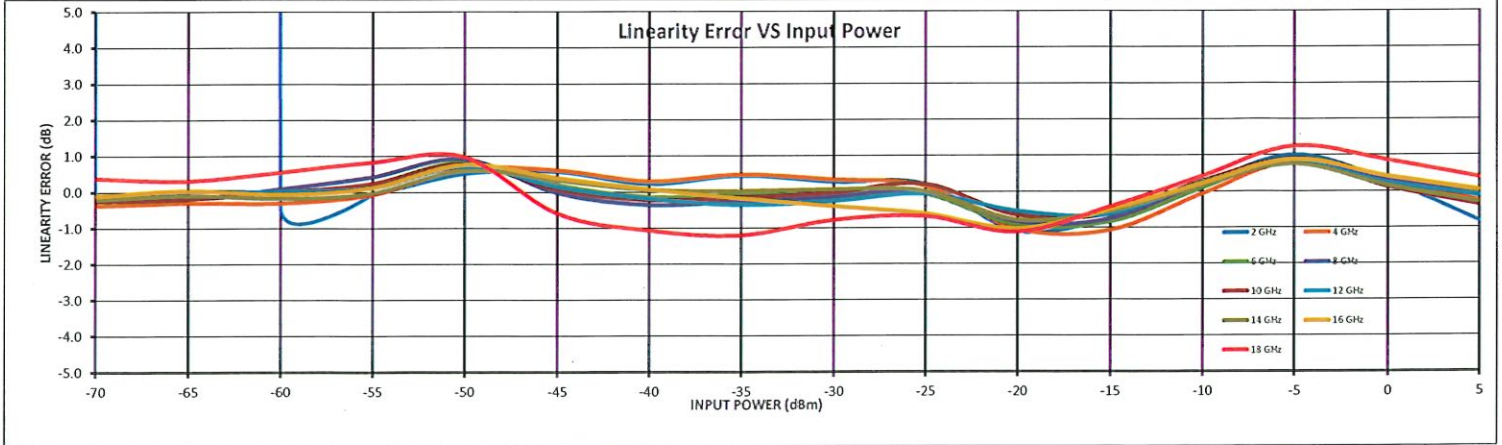
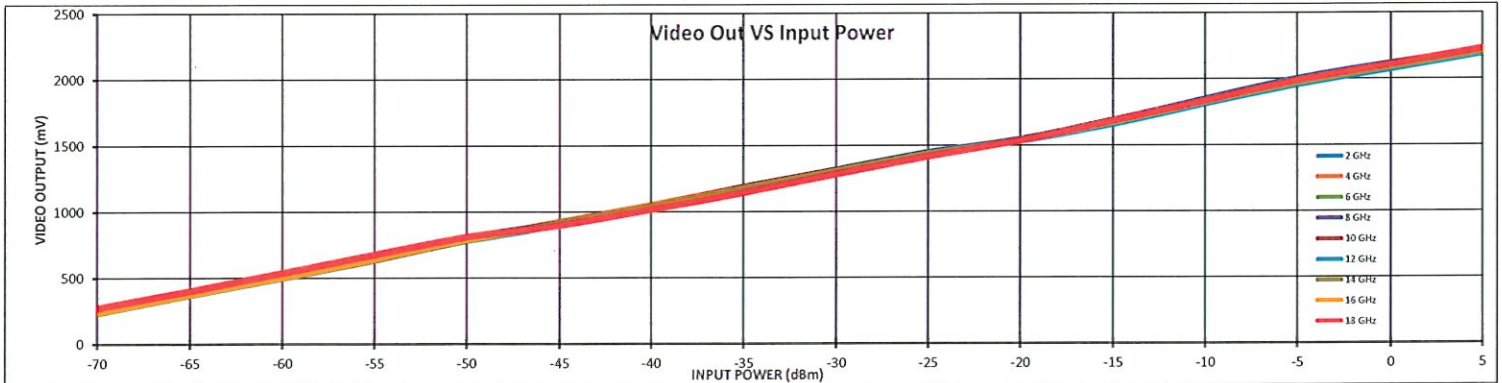
PL41945/2335

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL41945/2335
Date: 8/31/2023
Tested By: RCombs
Test Temp: -40°C

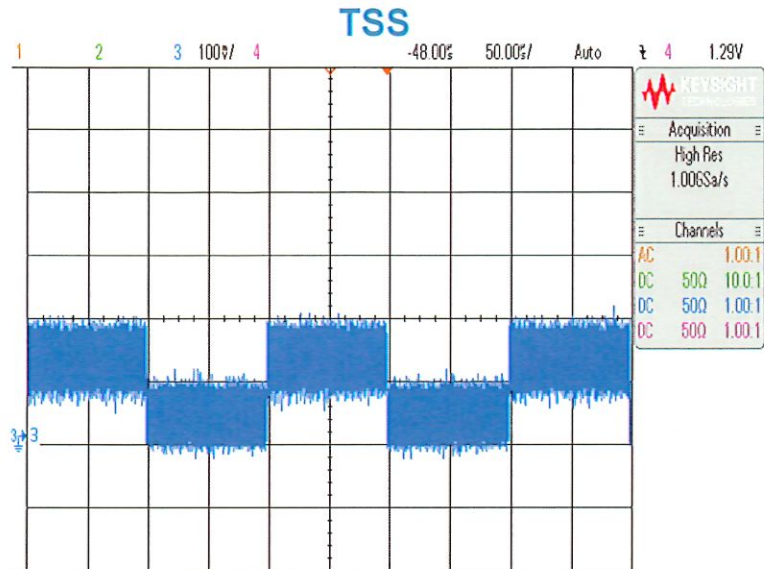
Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	Measured Value (mV)	ERROR (mV)	LINEARITY ERROR (dB)
2 GHz	2113	26.7	1692.4	236	371	502	644	792	927	1052	1191	1320	1452	1550	1693	1851	2007	2121	2225				
				-9	45169	-10	-1	14	15	6	12	7	6	-29	-20	5	27	7	-22				
				-0.34	1692.42	-0.37	-0.05	0.51	0.56	0.22	0.45	0.27	0.21	-1.10	-0.73	0.19	1.01	0.27	-0.82				
4 GHz	2092	26.2	1.1	245	378	509	647	797	927	1050	1186	1314	1440	1540	1670	1828	1982	2098	2218				
				-10	-8	-8	-2	17	16	8	12	9	4	-27	-28	-2	21	6	-7				
				-0.38	-0.30	-0.31	-0.07	0.64	0.60	0.29	0.48	0.34	0.15	-1.04	-1.08	-0.08	0.81	0.23	-0.27				
6 GHz	2084	26.0	0.9	257	389	522	659	805	919	1040	1171	1302	1432	1540	1672	1826	1978	2094	2212				
				-5	-4	-1	6	22	5	-4	-2	-2	-2	-24	-22	2	23	9	-2				
				-0.21	-0.15	-0.03	0.23	0.83	0.20	-0.14	-0.09	-0.07	-0.07	-0.93	-0.85	0.09	0.90	0.36	-0.10				
8 GHz	2075	25.7	0.9	271	400	535	672	813	918	1037	1168	1300	1432	1539	1669	1823	1969	2083	2200				
				-5	-5	2	11	24	-1	-9	-7	-4	0	-21	-20	6	23	8	-3				
				-0.19	-0.18	0.09	0.43	0.92	-0.02	-0.36	-0.26	-0.14	0.01	-0.83	-0.76	0.21	0.90	0.32	-0.12				
10 GHz	2072	25.7	0.8	264	394	527	662	805	915	1035	1167	1299	1434	1540	1670	1821	1965	2075	2191				
				-6	-5	0	6	20	2	-6	-4	-1	5	-17	-16	7	22	3	-10				
				-0.25	-0.19	-0.01	0.23	0.78	0.07	-0.23	-0.16	-0.03	0.21	-0.66	-0.62	0.28	0.85	0.12	-0.38				
12 GHz	2070	26.1	0.8	242	377	507	640	785	901	1022	1148	1281	1417	1534	1652	1815	1960	2076	2197				
				-3	1	1	3	19	4	-5	-9	-7	-1	-14	-16	6	21	6	-3				
				-0.13	0.02	0.02	0.12	0.71	0.15	-0.19	-0.36	-0.26	-0.06	-0.54	-0.63	0.24	0.79	0.23	-0.12				
14 GHz	2087	26.3	0.8	237	372	502	637	785	910	1035	1165	1298	1429	1539	1677	1828	1975	2091	2211				
				-6	-2	-5	-1	16	9	1	2	0	-21	-14	4	20	4	-8					
				-0.21	-0.09	-0.17	-0.03	0.59	0.33	0.05	0.02	0.07	0.02	-0.79	-0.55	0.17	0.75	0.15	-0.30				
16 GHz	2093	26.6	1.0	231	368	498	635	785	908	1032	1159	1285	1413	1535	1682	1833	1984	2104	2227				
				-3	1	-2	3	20	10	2	-5	-11	-16	-27	-13	6	23	11	1				
				-0.11	0.04	-0.06	0.12	0.76	0.38	0.07	-0.18	-0.41	-0.61	-1.03	-0.50	0.22	0.88	0.40	0.03				
18 GHz	2087	26.1	1.244	272	400	537	674	809	898	1016	1143	1284	1417	1536	1684	1837	1989	2109	2227				
				10	8	14	22	25	-15	-28	-32	-21	-18	-29	-11	11	32	22	10				
				0.38	0.31	0.55	0.83	0.97	-0.59	-1.08	-1.21	-0.79	-0.68	-1.13	-0.43	0.41	1.24	0.85	0.38				
Avg. Slope: 26.2 mV/dB				0.8	0.6	0.7	0.7	0.5	0.6	0.7	0.9	0.7	0.7	0.3	0.6	0.7	0.9	0.9	0.7	Flatness dB: ±0.9 dB			



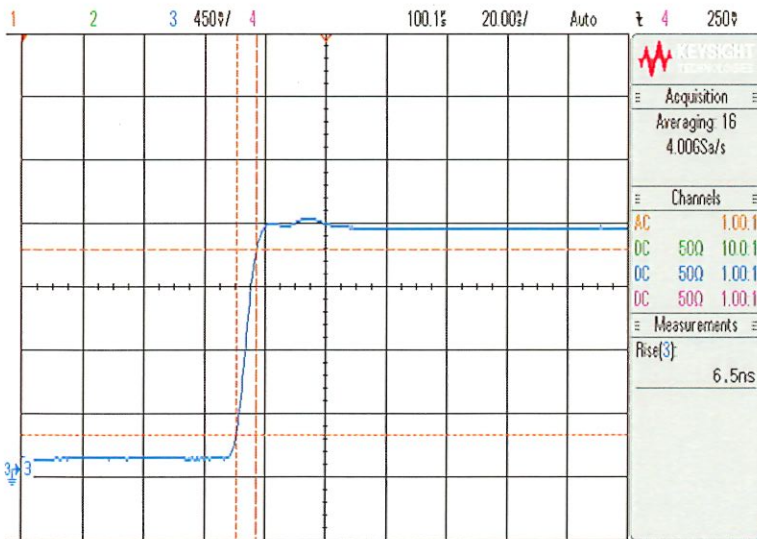


SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL41945/2335



Rise Time



Fall Time

