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

PL26260/1934

Customer:		**Tested By:**	Simon K.
SO No:		**Temperature:**	+25°C
Model No:	SDLVA-6G18G-CD-2-OPT218-NRF	**Date:**	08/20/2019
Serial No:	PL26260/1934	**Drawing No:**	27630483 **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**	PMI QA1
2	Flatness:	± 2.0 dB Maximum	**±1.2 dB 25°C**	
3	TSS:	-70 dBm Minimum	**-72 dBm**	
4	VSWR:	2.0:1 (Input)	**1.98:1 (Input)**	
5	Power Input:	+17 dBm CW Maximum	**Pass**	
6	RF Out:	Not Connected	**Not Connected**	
7	Log Slope	25 mV/dB (±10%) 50Ω	**26.14 mV/dB See Plot**	
8	Log Range:	-70 to +5 dBm	**-70 to +5 dBm See Plots**	
9	Log Linearity:	±2.5 dB (-40°C - +85°C)	**+1.13 / -1.34 dB See Plots**	
10	Pulse Range:	30 ns to CW	**Pass**	
11	Rise Time:	10 ns (6 ns Typical)	**9 ns**	
12	Recovery Time:	60 ns Typical	**53 ns**	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	**+235 mA** **-97 mA**	PMI QA1

QA/QC Approval: PMI QA1 **Date:** 8/20/19

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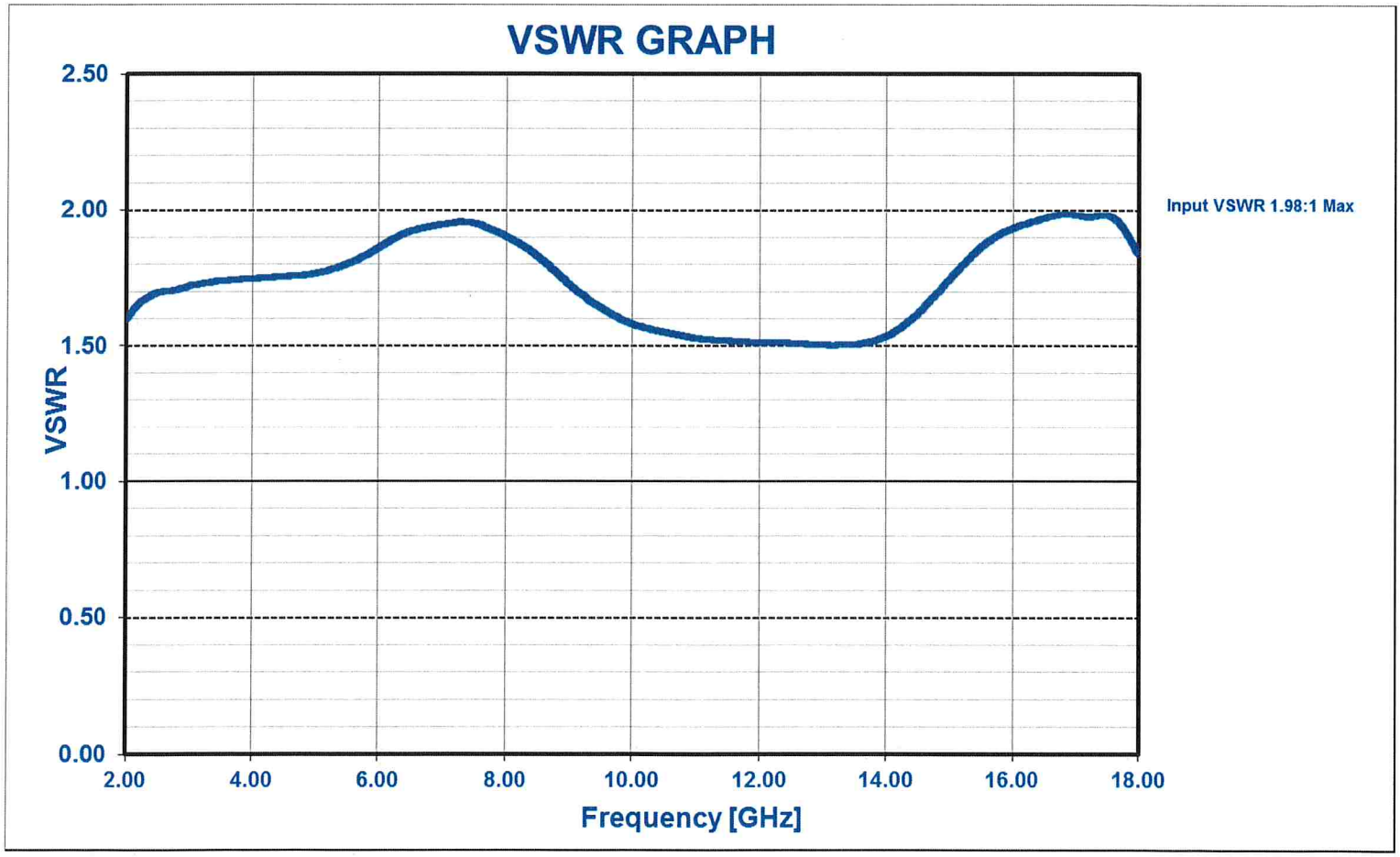
PL26260/1934

VSWR



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

PL26260/1934

Transfer Data @ 25°C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-6G18G-CD-2-OPT218-NRF
TESTED BY: Simon K.
DATE: 08/20/2019
SERIAL NO: PL26260
Test Temp: +25C

PLANAR MONOLITHICS INDUSTRIES
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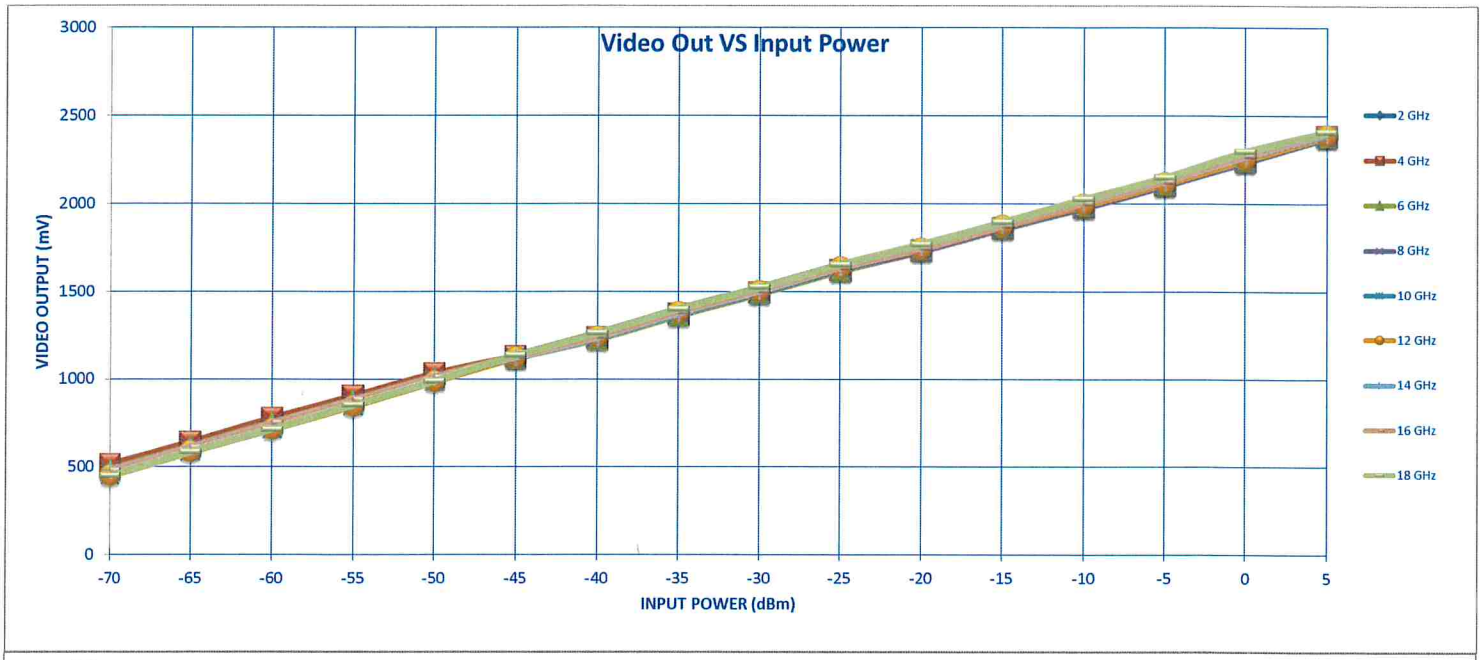
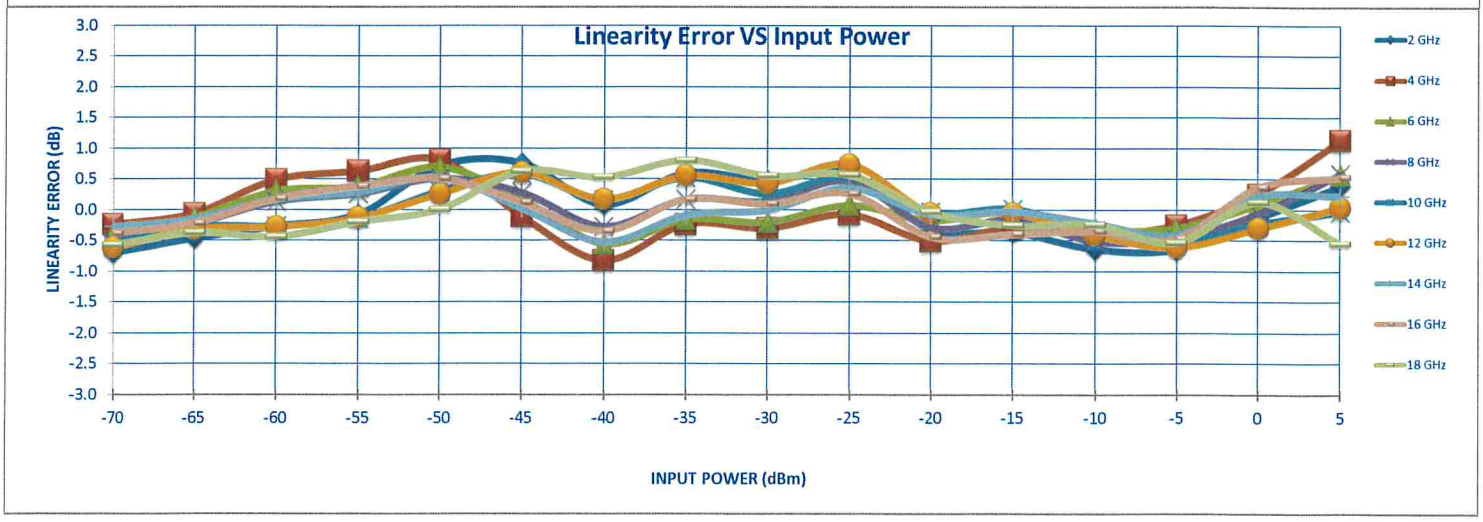
Frequency			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2247	465	597	728	859	1005	1132	1241	1380	1503	1632	1735	1860	1979	2105	2244	2383	Measured Value (mV)
	SLOPE (mV/dB)	25.21	-18	-12	-7	-2	18	19	2	15	12	15	-8	-9	-16	-16	-3	10	Error (mV)
			-0.70	-0.47	-0.27	-0.07	0.72	0.76	0.08	0.60	0.48	0.59	-0.32	-0.36	-0.64	-0.64	-0.13	0.39	0.76
4 GHz	INTERCEPT (mV)	2234	512	639	775	901	1028	1128	1233	1370	1491	1619	1731	1859	1979	2105	2240	2384	Measured Value (mV)
	SLOPE (mV/dB)	24.51	-6	-2	12	15	20	-3	-20	-6	-7	-2	-13	-7	-10	-6	6	28	Error (mV)
			-0.24	-0.06	0.49	0.63	0.81	-0.11	-0.83	-0.24	-0.30	-0.08	-0.51	-0.29	-0.39	-0.25	0.26	1.13	1.13
6 GHz	INTERCEPT (mV)	2243	481	613	749	876	1009	1121	1228	1363	1487	1619	1738	1867	1985	2110	2245	2382	Measured Value (mV)
	SLOPE (mV/dB)	25.02	-10	-3	8	9	17	4	-14	-4	-5	2	-4	0	-8	-8	2	14	Error (mV)
			-0.41	-0.14	0.30	0.38	0.69	0.17	-0.56	-0.16	-0.20	0.07	-0.17	-0.02	-0.30	-0.31	0.09	0.57	0.69
8 GHz	INTERCEPT (mV)	2240	479	611	745	873	1004	1123	1234	1370	1494	1627	1733	1861	1977	2103	2238	2379	Measured Value (mV)
	SLOPE (mV/dB)	24.96	-13	-6	3	6	13	7	-7	4	3	12	-7	-4	-13	-12	-2	15	Error (mV)
			-0.52	-0.23	0.13	0.26	0.51	0.27	-0.28	0.17	0.14	0.46	-0.29	-0.16	-0.52	-0.47	-0.06	0.59	0.59
10 GHz	INTERCEPT (mV)	2258	455	590	718	849	988	1123	1240	1377	1498	1633	1746	1875	1994	2117	2252	2385	Measured Value (mV)
	SLOPE (mV/dB)	25.55	-14	-7	-7	-4	8	15	4	13	7	14	-1	0	-8	-13	-6	-1	Error (mV)
			-0.56	-0.28	-0.27	-0.14	0.30	0.58	0.16	0.52	0.26	0.54	-0.03	0.01	-0.33	-0.51	-0.23	-0.03	0.58
12 GHz	INTERCEPT (mV)	2259	449	585	714	846	984	1121	1238	1376	1501	1637	1745	1873	1992	2115	2251	2388	Measured Value (mV)
	SLOPE (mV/dB)	25.63	-16	-8	-7	-3	7	15	4	14	11	19	-1	-1	-11	-16	-8	1	Error (mV)
			-0.62	-0.31	-0.28	-0.13	0.26	0.60	0.17	0.55	0.43	0.74	-0.05	-0.06	-0.41	-0.61	-0.31	0.04	0.74
14 GHz	INTERCEPT (mV)	2264	481	611	746	876	1009	1123	1236	1374	1503	1639	1755	1883	2005	2127	2270	2397	Measured Value (mV)
	SLOPE (mV/dB)	25.38	-7	-4	4	7	13	1	-13	-2	0	9	-2	-1	-6	-11	6	6	Error (mV)
			-0.28	-0.16	0.16	0.29	0.53	0.02	-0.53	-0.09	0.00	0.35	-0.07	-0.03	-0.22	-0.41	0.22	0.23	0.53
16 GHz	INTERCEPT (mV)	2266	480	611	748	880	1010	1127	1242	1382	1507	1638	1747	1875	2003	2127	2275	2406	Measured Value (mV)
	SLOPE (mV/dB)	25.37	-10	-6	5	10	13	3	-9	4	2	7	-11	-10	-9	-12	9	13	Error (mV)
			-0.38	-0.22	0.18	0.38	0.51	0.12	-0.35	0.17	0.10	0.26	-0.44	-0.40	-0.35	-0.47	0.37	0.53	0.53
18 GHz	INTERCEPT (mV)	2294	449	585	714	851	987	1134	1262	1400	1524	1655	1770	1895	2026	2149	2297	2410	Measured Value (mV)
	SLOPE (mV/dB)	26.14	-15	-10	-11	-5	0	16	14	21	14	15	-1	-7	-6	-14	3	-14	Error (mV)
			-0.58	-0.37	-0.44	-0.20	0.01	0.63	0.53	0.81	0.55	0.56	-0.04	-0.26	-0.24	-0.54	0.12	-0.55	0.81
	Average Slope (mV)	25.31																	Maximum Flatness
	Flatness	± dB	1.2	1.1	1.2	1.1	0.9	0.3	0.7	0.7	0.7	0.7	0.8	0.7	1.0	0.9	1.2	0.6	1.2

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

PL26260/1934

Transfer Plots @ 25°C





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

PL26260/1934

Transfer Data @ -40°C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-6G18G-CD-2-OPT218-NRF
TESTED BY: Simon K.
DATE: 08/20/2019
SERIAL NO: PL26260
Test Temp: -40C

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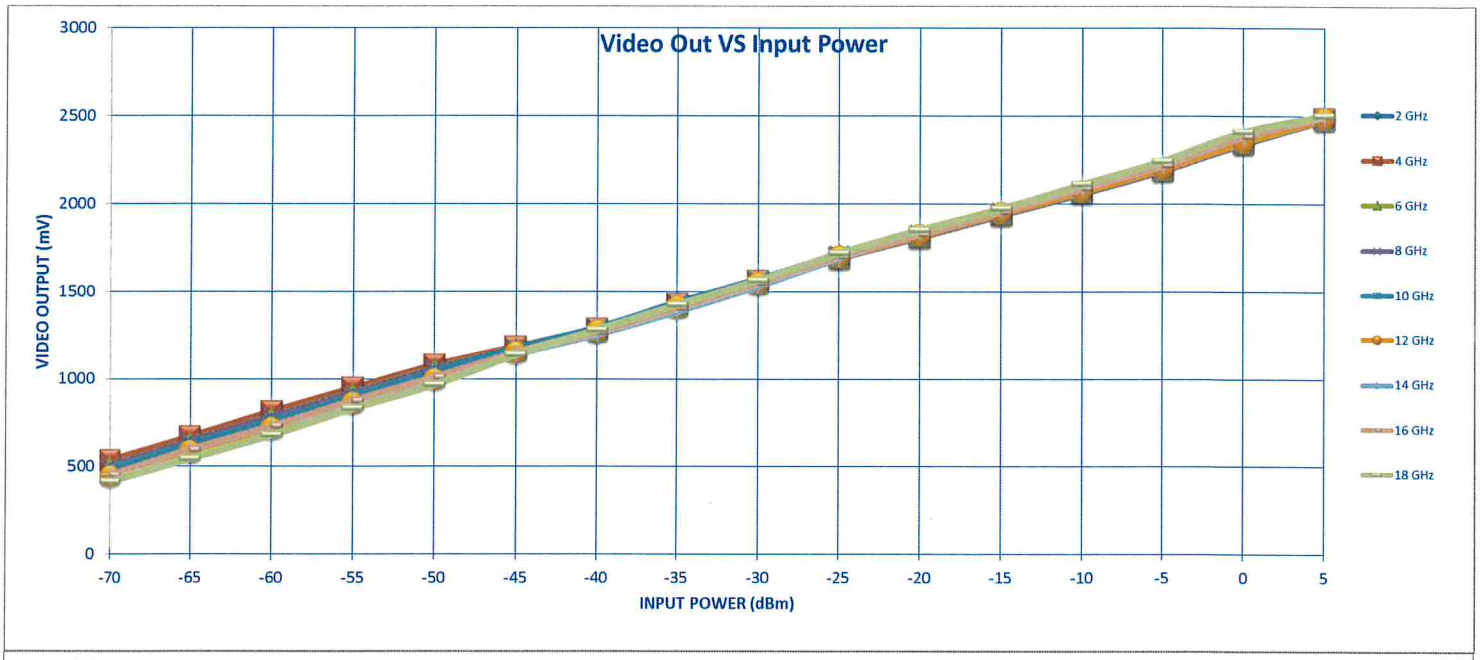
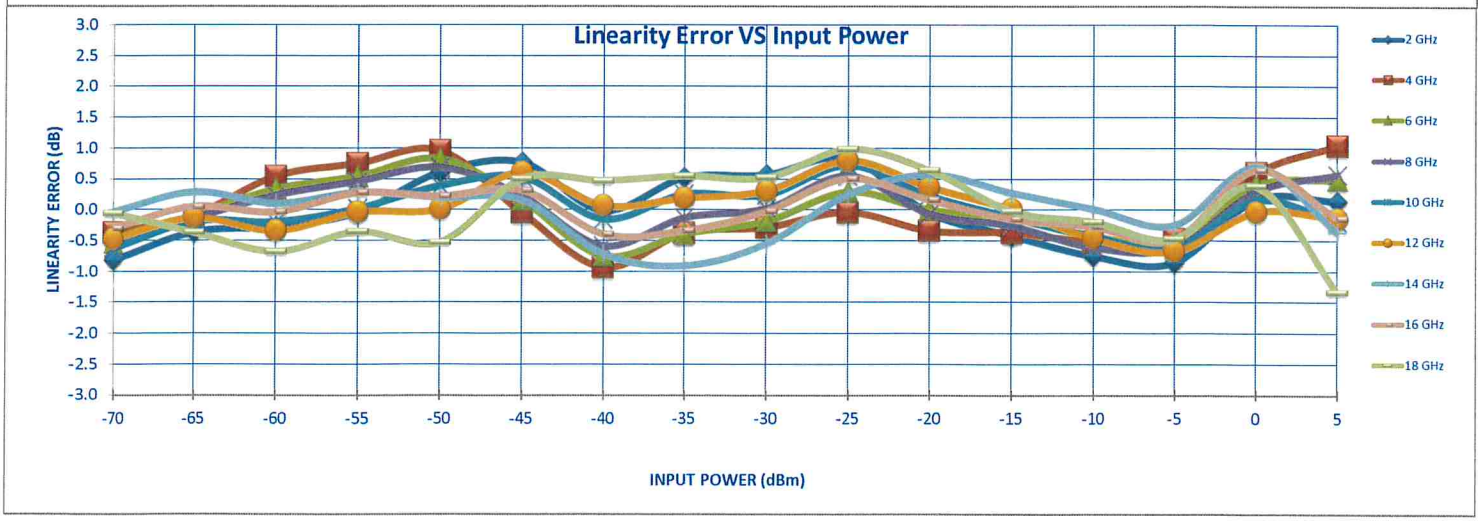
Frequency			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2351	471	616	751	890	1040	1177	1289	1436	1570	1710	1819	1942	2066	2196	2356	2488	Measured Value (mV)
	SLOPE (mV/dB)	26.55	-22	-10	-7	-1	16	20	0	14	15	22	-1	-11	-20	-23	5	4	Error (mV)
			-0.82	-0.36	-0.28	-0.04	0.61	0.77	-0.02	0.52	0.57	0.84	-0.05	-0.42	-0.75	-0.86	0.17	0.14	0.86
4 GHz	INTERCEPT (mV)	2331	533	668	812	945	1078	1180	1285	1427	1557	1691	1811	1938	2062	2191	2346	2485	Measured Value (mV)
	SLOPE (mV/dB)	25.54	-10	-2	14	19	24	-1	-24	-10	-7	-1	-9	-10	-13	-12	15	27	Error (mV)
			-0.38	-0.10	0.54	0.75	0.96	-0.05	-0.94	-0.38	-0.29	-0.04	-0.35	-0.37	-0.52	-0.47	0.60	1.04	1.04
6 GHz	INTERCEPT (mV)	2339	497	639	781	917	1055	1168	1275	1415	1551	1694	1817	1944	2067	2196	2350	2483	Measured Value (mV)
	SLOPE (mV/dB)	26.12	-14	-3	9	14	22	4	-20	-10	-5	8	0	-4	-11	-13	11	13	Error (mV)
			-0.54	-0.10	0.33	0.54	0.82	0.15	-0.75	-0.39	-0.19	0.29	0.00	-0.14	-0.43	-0.49	0.40	0.49	0.82
8 GHz	INTERCEPT (mV)	2336	499	641	781	917	1053	1171	1280	1422	1556	1700	1814	1939	2060	2190	2344	2481	Measured Value (mV)
	SLOPE (mV/dB)	26.02	-16	-4	6	12	18	6	-15	-3	0	14	-2	-7	-16	-16	8	15	Error (mV)
			-0.61	-0.15	0.23	0.46	0.69	0.22	-0.59	-0.13	0.02	0.55	-0.07	-0.26	-0.61	-0.62	0.30	0.57	0.69
10 GHz	INTERCEPT (mV)	2358	476	621	754	893	1036	1173	1288	1432	1565	1711	1831	1955	2080	2208	2362	2486	Measured Value (mV)
	SLOPE (mV/dB)	26.64	-17	-5	-5	1	10	14	-4	7	6	19	6	-3	-11	-17	4	-5	Error (mV)
			-0.63	-0.19	-0.20	0.02	0.39	0.53	-0.15	0.25	0.24	0.72	0.23	-0.12	-0.43	-0.62	0.16	-0.19	0.72
12 GHz	INTERCEPT (mV)	2354	441	586	716	860	997	1149	1270	1409	1548	1697	1821	1947	2070	2200	2353	2486	Measured Value (mV)
	SLOPE (mV/dB)	27.14	-13	-4	-9	-1	0	16	2	5	8	22	10	0	-13	-18	-1	-4	Error (mV)
			-0.48	-0.14	-0.35	-0.04	0.01	0.61	0.06	0.18	0.30	0.79	0.36	0.00	-0.46	-0.68	-0.04	-0.14	0.79
14 GHz	INTERCEPT (mV)	2370	449	595	727	869	1004	1140	1253	1385	1532	1691	1837	1966	2096	2226	2389	2497	Measured Value (mV)
	SLOPE (mV/dB)	27.43	-1	8	3	8	5	4	-20	-25	-15	7	16	8	0	-7	19	-10	Error (mV)
			-0.04	0.29	0.10	0.28	0.20	0.16	-0.72	-0.91	-0.55	0.25	0.57	0.27	0.01	-0.25	0.70	-0.37	0.91
16 GHz	INTERCEPT (mV)	2367	449	595	729	874	1009	1148	1265	1403	1548	1699	1826	1954	2087	2218	2385	2500	Measured Value (mV)
	SLOPE (mV/dB)	27.29	-8	1	-1	7	6	9	-11	-9	-1	14	4	-4	-8	-13	18	-4	Error (mV)
			-0.30	0.05	-0.04	0.27	0.22	0.31	-0.40	-0.34	-0.03	0.50	0.16	-0.15	-0.28	-0.48	0.64	-0.14	0.64
18 GHz	INTERCEPT (mV)	2400	413	546	679	830	967	1138	1279	1423	1564	1719	1851	1974	2111	2245	2411	2504	Measured Value (mV)
	SLOPE (mV/dB)	28.36	-2	-11	-19	-10	-15	14	13	16	15	28	18	-1	-6	-13	11	-38	Error (mV)
			-0.06	-0.37	-0.68	-0.36	-0.53	0.50	0.47	0.55	0.52	0.98	0.64	-0.03	-0.20	-0.47	0.38	-1.34	1.34

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

PL26260/1934

Transfer Plots @ -40°C





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

PL26260/1934

Transfer Data @ 85°C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-6G18G-CD-2-OPT218-NRF
TESTED BY: Simon K.
DATE: 08/20/2019
SERIAL NO: PL26260
Test Temp: +85C

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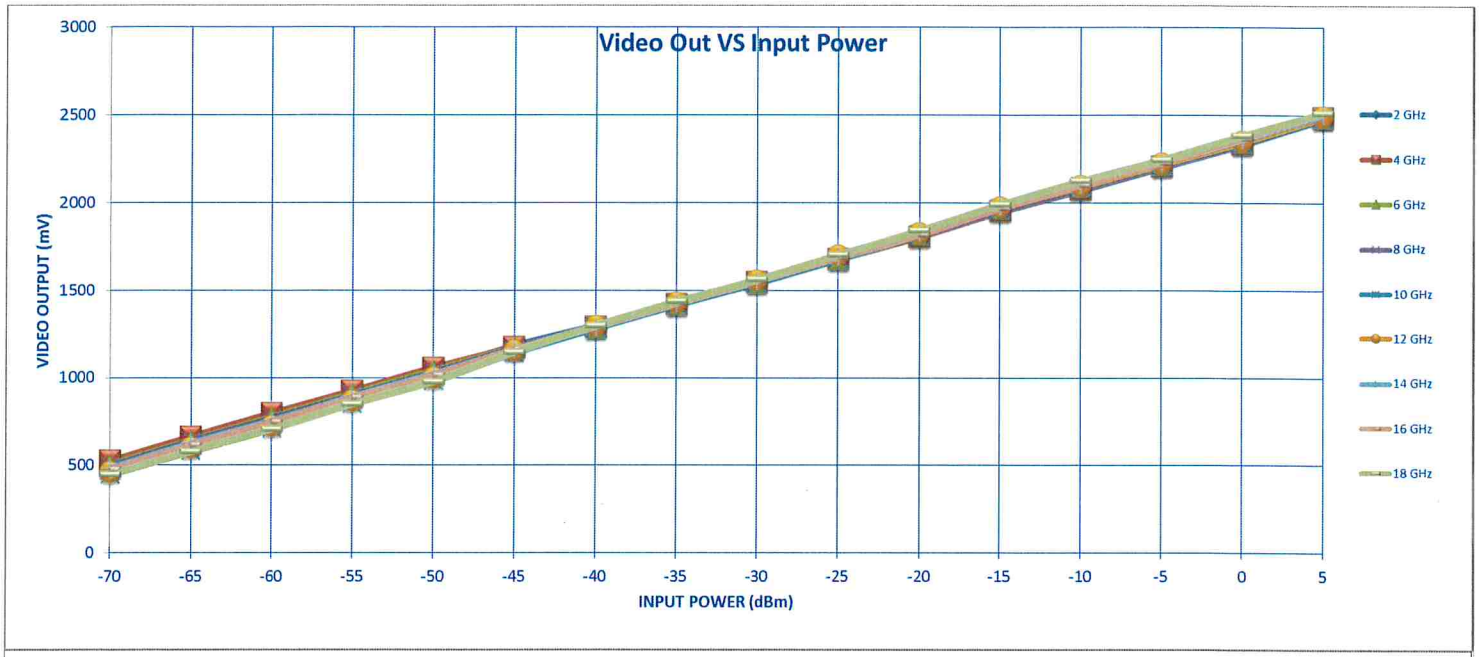
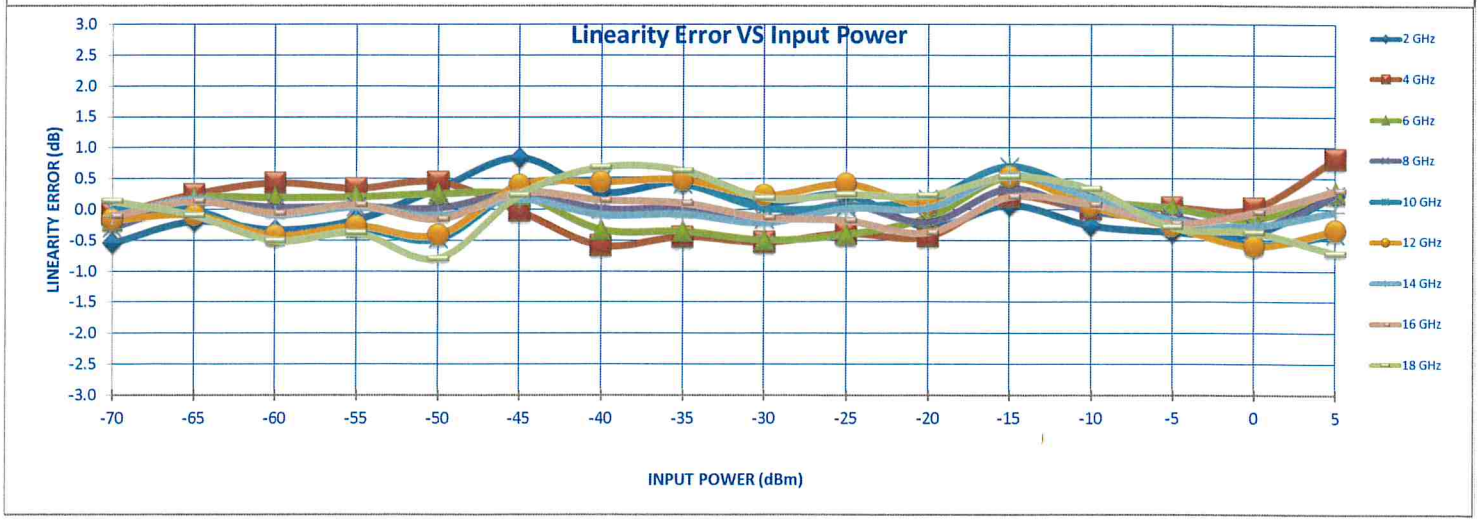
Frequency			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2343	485	626	754	890	1035	1180	1297	1433	1556	1691	1809	1950	2073	2202	2333	2481	Measured Value (mV)
	SLOPE (mV/dB)	26.34	-14	-5	-9	-5	9	22	7	12	3	6	-7	2	-7	-10	-10	6	Error (mV)
			-0.55	-0.19	-0.33	-0.17	0.33	0.84	0.28	0.44	0.11	0.24	-0.28	0.07	-0.26	-0.36	-0.39	0.23	0.84
4 GHz	INTERCEPT (mV)	2336	523	661	795	922	1054	1171	1286	1419	1546	1679	1807	1953	2077	2207	2336	2486	Measured Value (mV)
	SLOPE (mV/dB)	25.86	-2	6	11	9	11	-1	-15	-11	-14	-10	-11	5	0	1	0	21	Error (mV)
			-0.09	0.25	0.43	0.34	0.44	-0.03	-0.59	-0.44	-0.53	-0.39	-0.44	0.21	0.00	0.03	0.02	0.82	0.82
6 GHz	INTERCEPT (mV)	2346	498	639	771	903	1036	1167	1284	1415	1543	1677	1816	1965	2087	2215	2342	2485	Measured Value (mV)
	SLOPE (mV/dB)	26.34	-5	5	5	5	7	6	-9	-9	-13	-11	-3	14	4	1	-4	7	Error (mV)
			-0.18	0.18	0.19	0.20	0.25	0.23	-0.33	-0.36	-0.49	-0.41	-0.13	0.53	0.16	0.02	-0.15	0.28	0.53
8 GHz	INTERCEPT (mV)	2344	493	635	765	897	1028	1166	1291	1423	1550	1688	1812	1958	2080	2209	2336	2482	Measured Value (mV)
	SLOPE (mV/dB)	26.33	-8	3	1	1	1	7	0	1	-4	2	-5	9	-1	-4	-8	6	Error (mV)
			-0.30	0.10	0.03	0.05	0.02	0.26	0.01	0.02	-0.16	0.08	-0.21	0.34	-0.03	-0.13	-0.31	0.23	0.34
10 GHz	INTERCEPT (mV)	2362	450	586	711	851	983	1142	1282	1417	1543	1680	1820	1971	2095	2220	2346	2487	Measured Value (mV)
	SLOPE (mV/dB)	27.31	0	0	-12	-9	-13	9	13	11	1	1	5	19	7	-5	-16	-11	Error (mV)
			0.01	-0.01	-0.44	-0.31	-0.48	0.34	0.47	0.41	0.03	0.04	0.17	0.70	0.24	-0.18	-0.57	-0.41	0.70
12 GHz	INTERCEPT (mV)	2365	458	596	723	863	995	1153	1290	1427	1556	1697	1824	1972	2095	2222	2349	2492	Measured Value (mV)
	SLOPE (mV/dB)	27.18	-5	-3	-11	-7	-11	11	12	13	6	11	2	14	1	-8	-16	-9	Error (mV)
			-0.17	-0.09	-0.42	-0.27	-0.42	0.40	0.44	0.48	0.22	0.41	0.08	0.53	0.05	-0.28	-0.60	-0.34	0.60
14 GHz	INTERCEPT (mV)	2369	480	622	750	888	1019	1161	1289	1424	1555	1696	1831	1980	2105	2230	2362	2503	Measured Value (mV)
	SLOPE (mV/dB)	26.95	-3	4	-2	1	-3	4	-2	-2	-6	0	1	15	5	-5	-7	-1	Error (mV)
			-0.11	0.16	-0.09	0.03	-0.10	0.16	-0.09	-0.08	-0.22	0.02	0.03	0.55	0.19	-0.17	-0.27	-0.04	0.55
16 GHz	INTERCEPT (mV)	2371	473	615	745	884	1013	1160	1292	1426	1555	1689	1819	1970	2102	2229	2369	2514	Measured Value (mV)
	SLOPE (mV/dB)	27.06	-3	4	-2	2	-4	7	4	3	-4	-5	-10	5	2	-6	-2	8	Error (mV)
			-0.11	0.13	-0.06	0.07	-0.16	0.27	0.15	0.10	-0.13	-0.18	-0.38	0.20	0.08	-0.23	-0.06	0.30	0.38
18 GHz	INTERCEPT (mV)	2394	445	578	706	849	977	1145	1297	1435	1562	1703	1842	1990	2124	2246	2383	2513	Measured Value (mV)
	SLOPE (mV/dB)	27.89	4	-3	-14	-11	-22	6	19	18	5	7	6	15	9	-8	-11	-20	Error (mV)
			0.13	-0.10	-0.51	-0.38	-0.79	0.23	0.68	0.63	0.18	0.24	0.22	0.53	0.33	-0.29	-0.38	-0.72	0.79

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

PL26260/1934

Transfer Plots @ 85°C





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