



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

PL26259/1934

Customer: _____ Tested By: Simon K.
SO No: _____ Temperature: +25°C
Model No: SDLVA-6G18G-CD-2-OPT218-NRF Date: 08/20/2019
Serial No: PL26259/1934 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 QA 1
2	Flatness:	± 2.0 dB Maximum	±0.9 dB 25°C	
3	TSS:	-70 dBm Minimum	-73 dBm	
4	VSWR:	2.0:1 (Input)	1.79:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	Not Connected	Not Connected	
7	Log Slope	25 mV/dB (±10%) 50Ω	24.44 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)	+1.27 / -1.16 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	8 ns	
12	Recovery Time:	60 ns Typical	55 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+235 mA -97 mA	PMI QA 1

QA/QC Approval: _____

PMI
QA 1

Date: _____

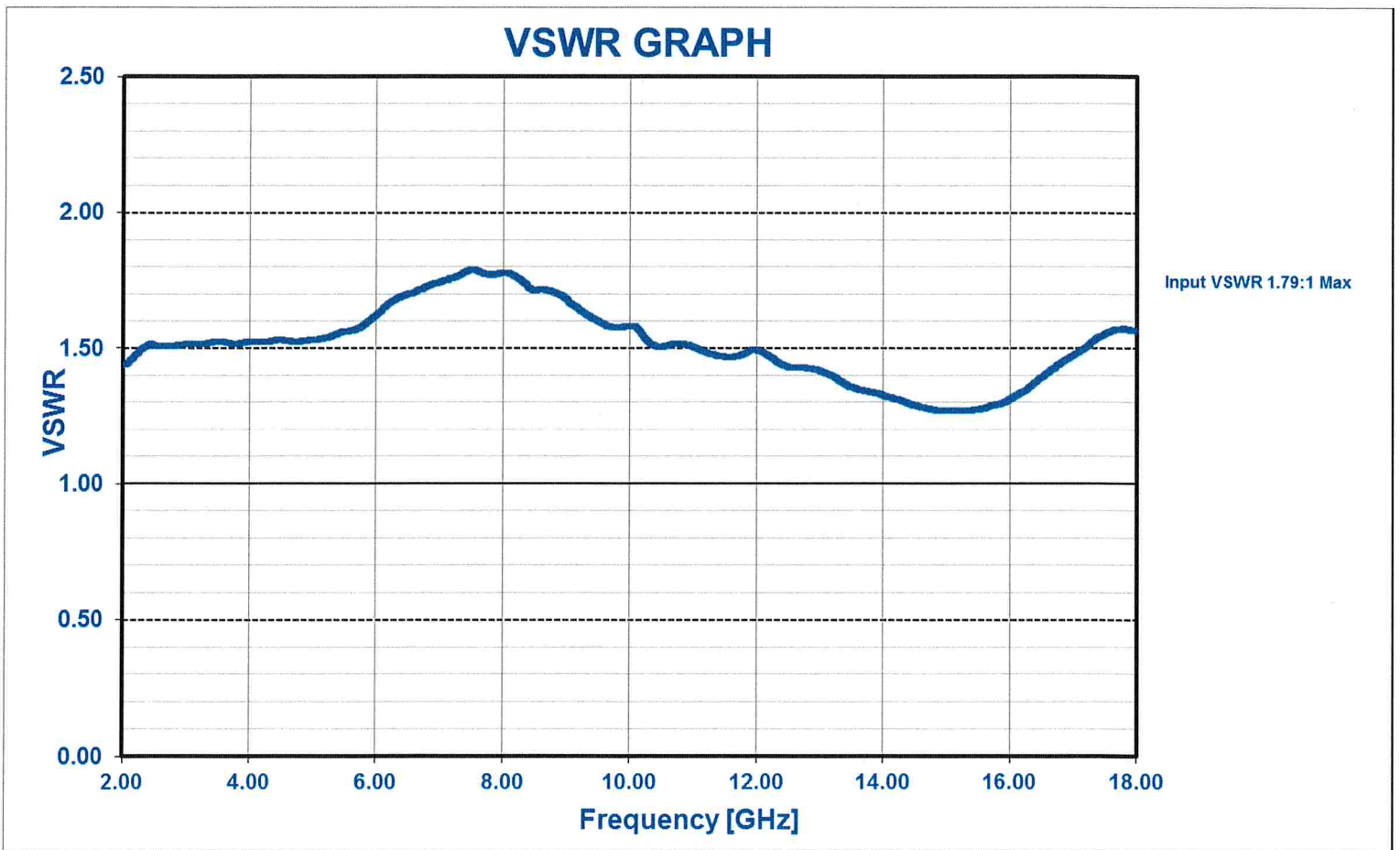
8/20/19



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

PL26259/1934

VSWR





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

PL26259/1934

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: PL26259
Test Temp: +25C



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

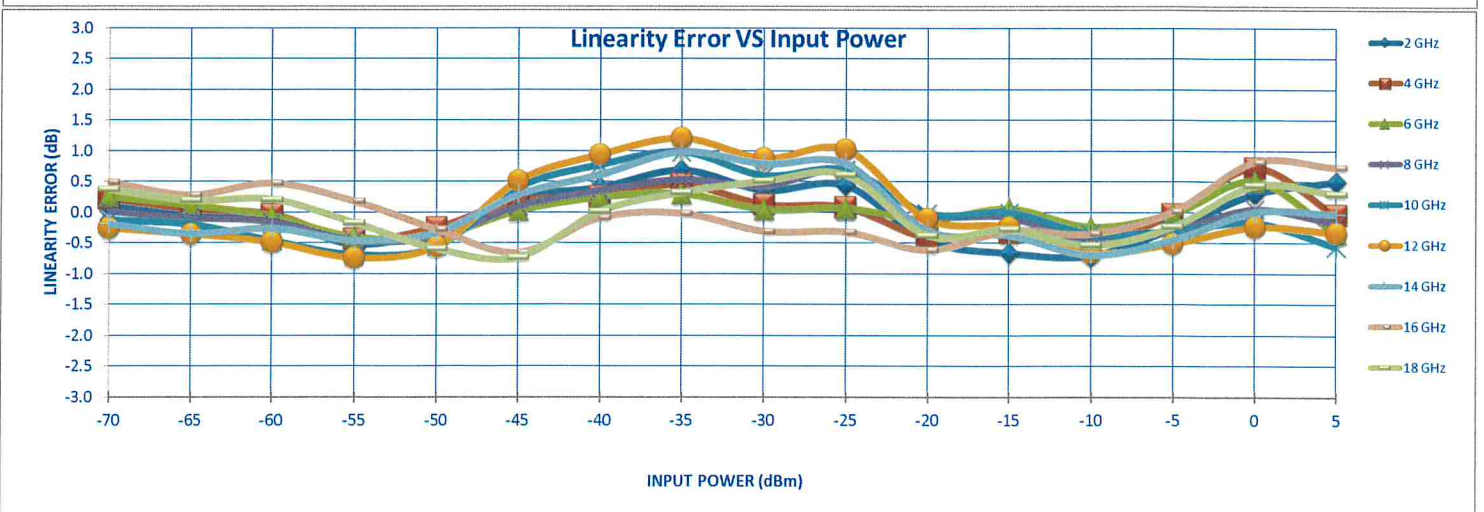
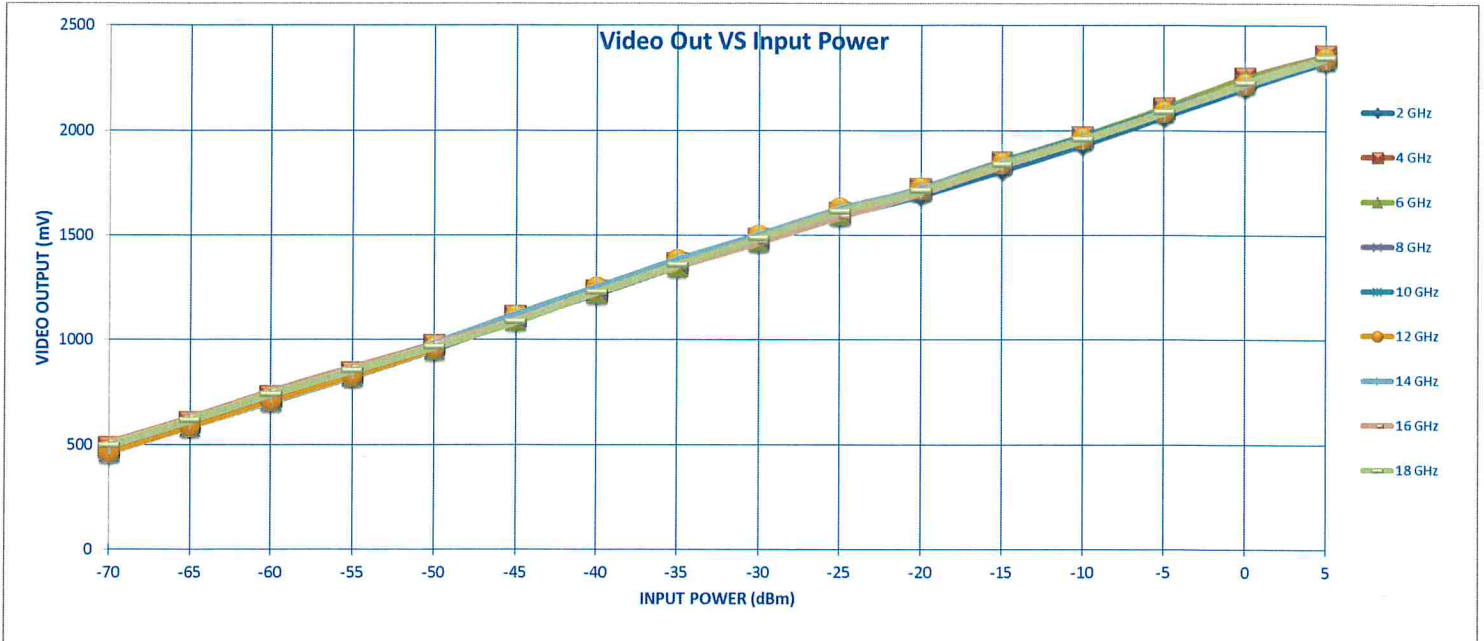
Frequency			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2196	476	595	716	829	958	1094	1221	1351	1466	1591	1692	1810	1932	2066	2203	2331	Measured Value (mV)
	SLOPE (mV/dB)	24.61	3	-1	-3	-13	-7	6	10	17	9	11	-11	-16	-17	-7	7	12	Error (mV)
			0.13	-0.03	-0.11	-0.52	-0.28	0.24	0.40	0.68	0.36	0.44	-0.46	-0.67	-0.71	-0.27	0.30	0.50	0.71
4 GHz	INTERCEPT (mV)	2230	483	604	727	842	972	1108	1235	1365	1482	1606	1719	1846	1967	2104	2248	2354	Measured Value (mV)
	SLOPE (mV/dB)	25.03	5	1	-1	-11	-6	5	6	11	3	2	-10	-8	-13	-1	18	-1	Error (mV)
			0.21	0.05	-0.04	-0.44	-0.25	0.18	0.25	0.45	0.12	0.08	-0.41	-0.34	-0.50	-0.03	0.72	-0.04	0.72
6 GHz	INTERCEPT (mV)	2230	465	588	710	828	955	1092	1224	1352	1472	1599	1721	1852	1971	2103	2243	2348	Measured Value (mV)
	SLOPE (mV/dB)	25.31	6	3	-2	-10	-10	1	6	8	1	2	-3	1	-6	-1	13	-9	Error (mV)
			0.25	0.11	-0.07	-0.41	-0.39	0.02	0.24	0.30	0.04	0.06	-0.12	0.06	-0.24	-0.02	0.51	-0.34	0.51
8 GHz	INTERCEPT (mV)	2218	474	596	719	836	962	1099	1230	1359	1481	1612	1719	1842	1957	2086	2219	2338	Measured Value (mV)
	SLOPE (mV/dB)	24.92	0	-2	-4	-11	-10	2	9	13	11	17	-1	-2	-12	-7	1	-4	Error (mV)
			0.01	-0.09	-0.16	-0.46	-0.40	0.10	0.35	0.53	0.43	0.69	-0.02	-0.08	-0.47	-0.29	0.05	-0.18	0.69
10 GHz	INTERCEPT (mV)	2226	463	587	706	826	955	1105	1240	1371	1487	1615	1723	1849	1966	2093	2222	2338	Measured Value (mV)
	SLOPE (mV/dB)	25.14	-3	-5	-12	-17	-14	10	19	25	15	17	0	0	-9	-8	-4	-14	Error (mV)
			-0.13	-0.20	-0.47	-0.69	-0.56	0.40	0.77	0.98	0.60	0.69	-0.02	-0.01	-0.35	-0.30	-0.17	-0.56	0.98
12 GHz	INTERCEPT (mV)	2225	464	587	709	828	958	1110	1246	1378	1495	1624	1721	1843	1958	2087	2219	2342	Measured Value (mV)
	SLOPE (mV/dB)	25.06	-7	-9	-12	-19	-14	13	23	30	22	25	-3	-6	-16	-13	-6	-8	Error (mV)
			-0.27	-0.36	-0.49	-0.74	-0.56	0.51	0.93	1.20	0.87	1.02	-0.11	-0.25	-0.66	-0.51	-0.24	-0.34	1.20
14 GHz	INTERCEPT (mV)	2219	494	613	738	856	982	1120	1251	1383	1501	1624	1720	1841	1956	2085	2219	2341	Measured Value (mV)
	SLOPE (mV/dB)	24.57	-5	-9	-6	-11	-3	7	15	24	19	13	-7	-3	-17	-11	0	-1	Error (mV)
			-0.19	-0.35	-0.26	-0.46	-0.33	0.28	0.61	0.98	0.79	0.79	-0.30	-0.38	-0.70	-0.45	0.00	-0.03	0.98
16 GHz	INTERCEPT (mV)	2207	508	625	752	867	978	1091	1227	1351	1466	1588	1703	1833	1954	2085	2227	2347	Measured Value (mV)
	SLOPE (mV/dB)	24.44	12	7	12	4	-7	-16	-2	-1	-8	-8	-15	-7	-9	0	20	18	Error (mV)
			0.49	0.27	0.47	0.18	-0.28	-0.66	-0.09	-0.02	-0.32	-0.32	-0.62	-0.30	-0.35	0.01	0.82	0.73	0.82
18 GHz	INTERCEPT (mV)	2214	495	614	738	852	965	1085	1227	1358	1486	1612	1711	1837	1954	2085	2225	2345	Measured Value (mV)
	SLOPE (mV/dB)	24.69	9	5	5	-4	-15	-18	0	8	12	15	-9	-7	-13	-6	11	7	Error (mV)
			0.37	0.19	0.21	-0.17	-0.60	-0.74	0.01	0.32	0.50	0.61	-0.38	-0.28	-0.54	-0.23	0.44	0.30	0.74
Average Slope (mV)		24.86																	Maximum Flatness
Flatness		± dB	0.9	0.8	0.9	0.8	0.5	0.7	0.6	0.6	0.7	0.7	0.6	0.8	0.8	0.8	0.9	0.5	0.9



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

PL26259/1934

Transfer Plots @ 25°C





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

PL26259/1934

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: PL26259
Test Temp: -40C



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

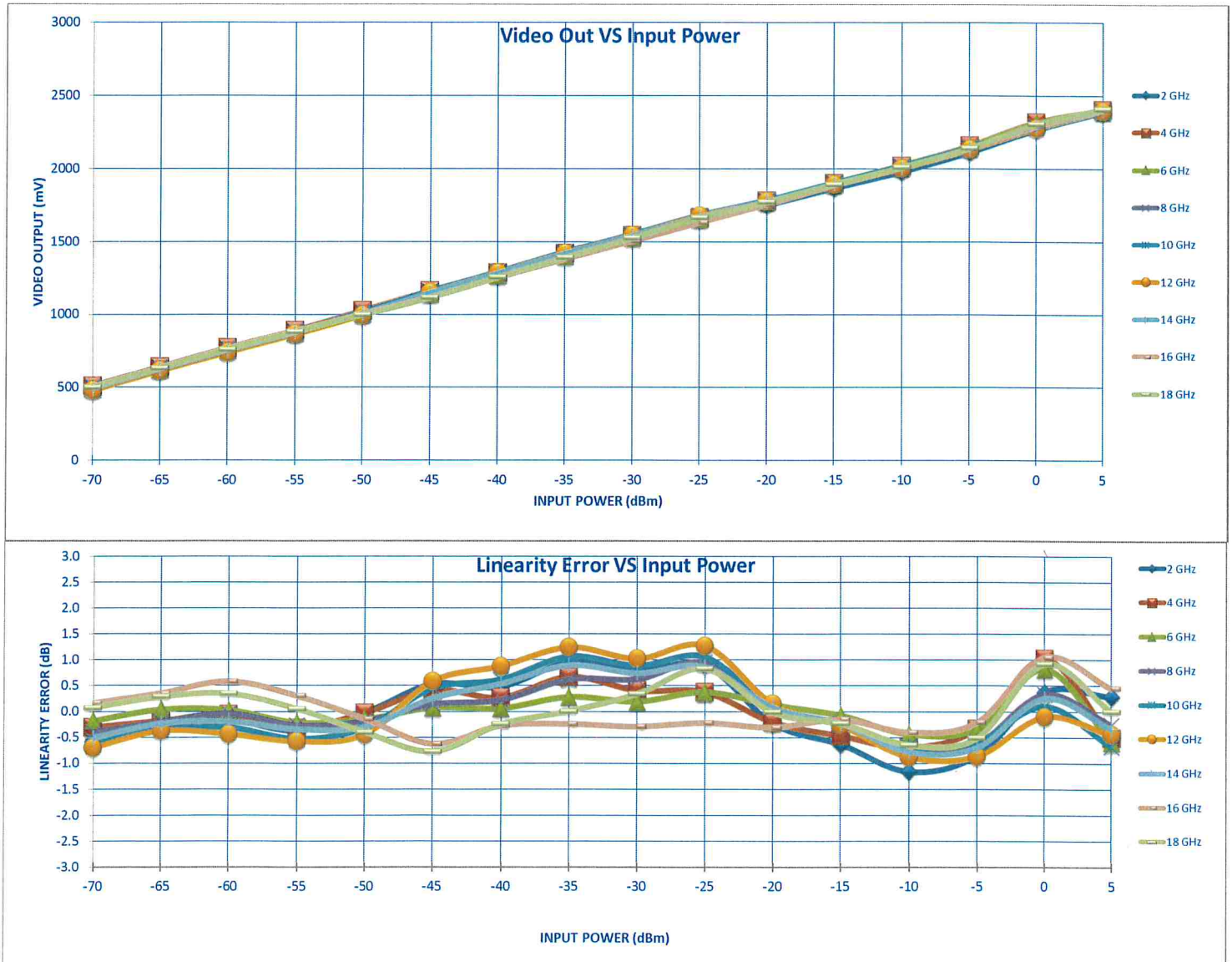
Frequency			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2259	491	624	752	872	1006	1145	1269	1406	1527	1655	1752	1867	1979	2112	2268	2391	Measured Value (mV)
	SLOPE (mV/dB)	25.04	-15	-7	-4	-9	-1	13	12	24	20	22	-6	-16	-29	-21	9	7	Error (mV)
			-0.59	-0.28	-0.17	-0.37	-0.02	0.53	0.48	0.95	0.78	0.90	-0.23	-0.64	-1.16	-0.85	0.38	0.29	1.16
4 GHz	INTERCEPT (mV)	2291	509	639	769	889	1023	1161	1284	1421	1541	1667	1779	1899	2020	2156	2317	2405	Measured Value (mV)
	SLOPE (mV/dB)	25.35	-8	-5	-1	-8	-1	10	7	17	10	9	-5	-12	-18	-8	26	-13	Error (mV)
			-0.31	-0.18	-0.05	-0.32	-0.03	0.41	0.26	0.67	0.40	0.37	-0.21	-0.47	-0.70	-0.33	1.02	-0.51	1.02
6 GHz	INTERCEPT (mV)	2291	490	624	752	874	1004	1138	1266	1400	1526	1659	1781	1904	2023	2154	2312	2404	Measured Value (mV)
	SLOPE (mV/dB)	25.66	-5	1	1	-6	-4	2	1	7	5	10	3	-2	-11	-9	21	-15	Error (mV)
			-0.19	0.04	0.03	-0.22	-0.15	0.07	0.06	0.28	0.19	0.38	0.13	-0.08	-0.44	-0.33	0.83	-0.59	0.83
8 GHz	INTERCEPT (mV)	2279	506	637	767	887	1015	1149	1277	1413	1539	1673	1777	1895	2008	2137	2287	2398	Measured Value (mV)
	SLOPE (mV/dB)	25.18	-10	-5	-1	-7	-5	3	6	16	16	24	2	-6	-19	-16	8	-6	Error (mV)
			-0.40	-0.20	-0.04	-0.27	-0.19	0.14	0.22	0.62	0.63	0.95	0.08	-0.23	-0.75	-0.62	0.33	-0.26	0.95
10 GHz	INTERCEPT (mV)	2288	501	633	761	882	1014	1160	1291	1429	1551	1682	1784	1902	2018	2147	2291	2398	Measured Value (mV)
	SLOPE (mV/dB)	25.33	-15	-9	-8	-13	-8	11	16	27	22	27	2	-6	-17	-15	3	-17	Error (mV)
			-0.57	-0.36	-0.31	-0.53	-0.32	0.45	0.62	1.07	0.89	1.06	0.09	-0.26	-0.68	-0.58	0.10	-0.67	1.07
12 GHz	INTERCEPT (mV)	2282	477	613	739	863	994	1148	1283	1420	1542	1676	1775	1892	2004	2132	2279	2398	Measured Value (mV)
	SLOPE (mV/dB)	25.53	-18	-10	-11	-15	-11	15	22	32	26	32	4	-7	-23	-22	-3	-11	Error (mV)
			-0.70	-0.38	-0.44	-0.58	-0.45	0.58	0.87	1.24	1.02	1.27	0.15	-0.27	-0.88	-0.87	-0.11	-0.45	1.27
14 GHz	INTERCEPT (mV)	2282	492	626	754	877	1005	1148	1280	1416	1539	1669	1776	1895	2008	2137	2288	2400	Measured Value (mV)
	SLOPE (mV/dB)	25.38	-13	-6	-5	-9	-8	6	14	23	19	22	2	-6	-20	-18	6	-8	Error (mV)
			-0.51	-0.23	-0.19	-0.34	-0.30	0.26	0.54	0.89	0.74	0.86	0.08	-0.23	-0.78	-0.70	0.25	-0.33	0.89
16 GHz	INTERCEPT (mV)	2269	506	637	769	888	1003	1117	1252	1379	1504	1632	1756	1886	2006	2137	2295	2406	Measured Value (mV)
	SLOPE (mV/dB)	25.24	4	9	15	8	-4	-16	-7	-6	-7	-6	-8	-4	-10	-5	26	11	Error (mV)
			0.16	0.35	0.58	0.30	-0.15	-0.63	-0.28	-0.25	-0.29	-0.22	-0.31	-0.16	-0.40	-0.21	1.05	0.45	1.05
18 GHz	INTERCEPT (mV)	2282	498	631	760	880	996	1114	1255	1389	1525	1665	1771	1893	2010	2141	2305	2409	Measured Value (mV)
	SLOPE (mV/dB)	25.51	2	7	9	1	-10	-20	-6	0	9	21	0	-6	-16	-13	23	0	Error (mV)
			0.07	0.29	0.34	0.05	-0.40	-0.78	-0.25	0.01	0.34	0.83	-0.02	-0.23	-0.65	-0.51	0.92	0.00	0.92



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

PL26259/1934

Transfer Plots @ -40°C





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

PL26259/1934

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: PL26259
Test Temp: +85C



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency	RF Input Power (dBm)																Measured Value (mV)	Error (mV)	
	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5			
2 GHz	INTERCEPT (mV)	2180																Measured Value (mV)	
	SLOPE (mV/dB)	25.36																Error (mV)	
		412	551	667	781	898	1025	1162	1299	1409	1546	1665	1803	1909	2057	2192	2321	0.75	
4 GHz	INTERCEPT (mV)	2220																Measured Value (mV)	
	SLOPE (mV/dB)	25.71																Error (mV)	
		417	563	684	803	922	1060	1203	1323	1442	1564	1692	1835	1960	2099	2233	2348	0.55	
6 GHz	INTERCEPT (mV)	2232																Measured Value (mV)	
	SLOPE (mV/dB)	26.12																Error (mV)	
		401	545	668	793	910	1052	1201	1321	1443	1565	1702	1853	1973	2105	2226	2365	0.60	
8 GHz	INTERCEPT (mV)	2244																Measured Value (mV)	
	SLOPE (mV/dB)	26.03																Error (mV)	
		412	559	683	808	925	1070	1221	1343	1469	1598	1725	1866	1987	2117	2236	2358	0.69	
10 GHz	INTERCEPT (mV)	2251																Measured Value (mV)	
	SLOPE (mV/dB)	26.50																Error (mV)	
		389	527	654	784	901	1057	1220	1343	1464	1590	1722	1870	1993	2121	2237	2357	1.11	
12 GHz	INTERCEPT (mV)	2255																Measured Value (mV)	
	SLOPE (mV/dB)	26.41																Error (mV)	
		394	535	662	791	910	1069	1230	1357	1480	1607	1728	1867	1989	2119	2240	2366	1.20	
14 GHz	INTERCEPT (mV)	2247																Measured Value (mV)	
	SLOPE (mV/dB)	25.81																Error (mV)	
		424	573	696	821	939	1087	1239	1364	1487	1610	1726	1865	1988	2117	2237	2362	0.93	
16 GHz	INTERCEPT (mV)	2230																Measured Value (mV)	
	SLOPE (mV/dB)	25.56																Error (mV)	
		437	585	711	831	941	1066	1214	1332	1455	1571	1698	1848	1978	2111	2241	2366	0.80	
18 GHz	INTERCEPT (mV)	2231																Measured Value (mV)	
	SLOPE (mV/dB)	25.81																Error (mV)	
		419	567	690	814	920	1051	1207	1332	1462	1581	1701	1849	1978	2109	2230	2356	0.77	



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

PL26259/1934

Transfer Plots @ 85°C

