



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

PL37921/2239

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/18/2022
Serial No: PL37921/2239 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	±1.5 dB 25°C See Plots	
3	TSS:	-70 dBm Minimum	-72 dBm	
4	VSWR:	2.0:1 (Input)	1.7:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	10.39 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.7 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)	±1.2 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	7.8 ns	
12	Recovery Time:	60 ns Typical	41 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 255 mA -12V @ 100 mA	PMI QA2

QA/QC Approval: _____

PMI
QA2

Date: 10/27/2022



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

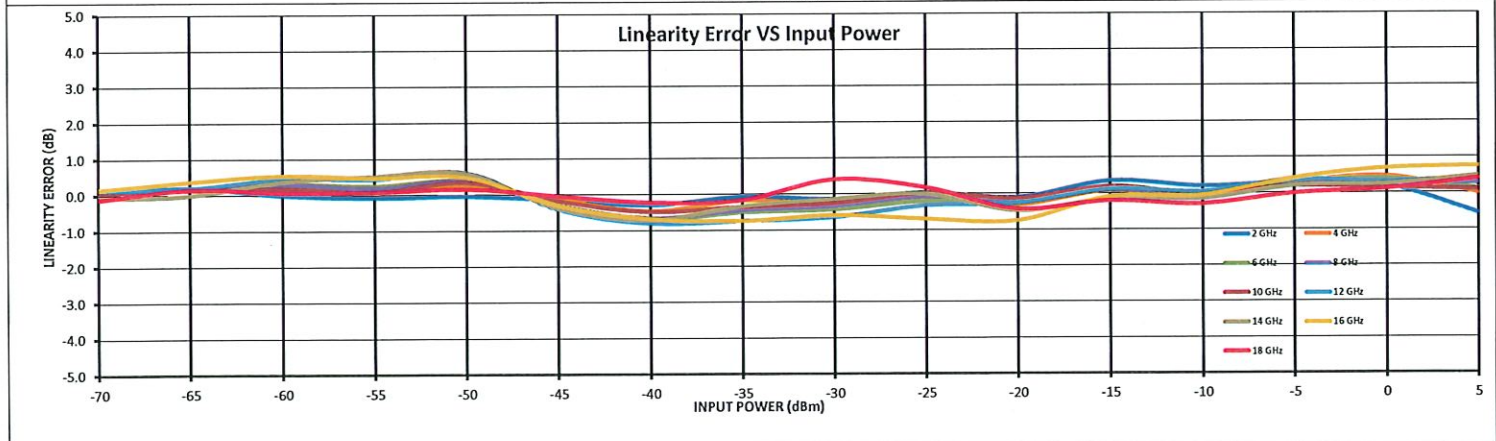
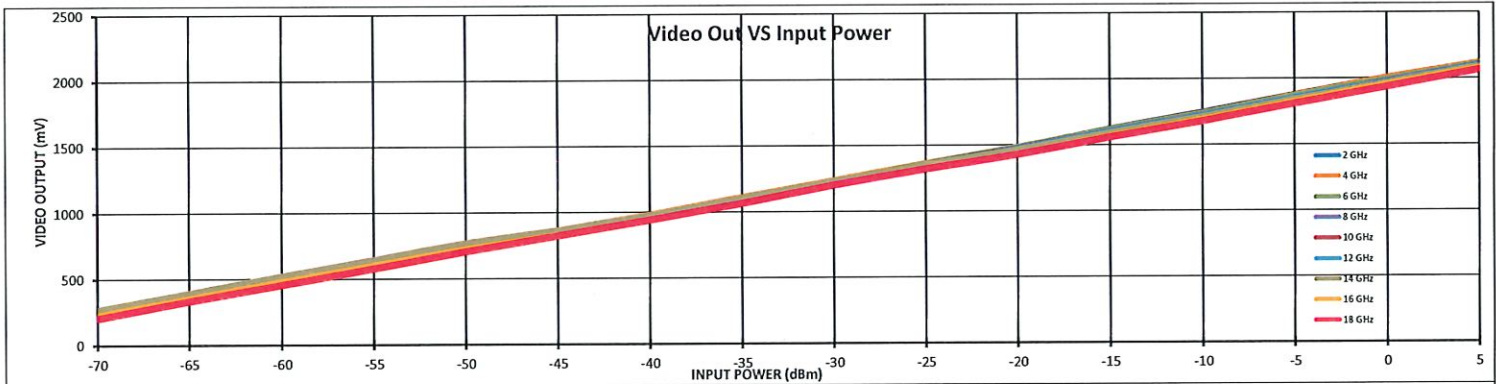
PL37921/2239

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37921/2239
 Date: 10/18/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	2000	-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)	25.5	216	346	468	594	723	848	972	1105	1231	1363	1487	1626	1750	1880	2006	2113	Measured Value (mV)
	LIN. ERR. (dB)	0.6	2	5	0	-2	-1	-4	-7	-2	-3	1	-3	9	5	8	6	-14	Error (mV)
			0.09	0.21	-0.01	-0.08	-0.04	-0.14	-0.29	-0.06	-0.14	0.04	-0.11	0.35	0.20	0.30	0.22	-0.56	LINEARITY ERROR (dB)
4 GHz	SLOPE (mV/dB)	25.0	250	375	502	623	753	868	985	1117	1240	1367	1489	1623	1744	1878	2008	2121	Measured Value (mV)
	LIN. ERR. (dB)	0.5	3	4	5	2	6	-3	-12	-4	-7	-4	-8	2	-2	7	11	0	Error (mV)
			0.13	0.14	0.20	0.07	0.26	-0.13	-0.47	-0.18	-0.26	-0.18	-0.31	0.07	-0.09	0.28	0.45	0.00	LINEARITY ERROR (dB)
6 GHz	SLOPE (mV/dB)	24.8	259	383	511	633	760	867	981	1110	1236	1365	1488	1622	1741	1872	1999	2116	Measured Value (mV)
	LIN. ERR. (dB)	0.7	4	4	8	6	10	-7	-17	-12	-10	-5	-5	5	0	7	10	3	Error (mV)
			0.17	0.17	0.32	0.25	0.40	-0.29	-0.69	-0.49	-0.42	-0.20	-0.22	0.19	-0.02	0.29	0.41	0.12	LINEARITY ERROR (dB)
8 GHz	SLOPE (mV/dB)	24.6	258	381	507	627	755	862	976	1104	1230	1359	1479	1610	1728	1859	1993	2106	Measured Value (mV)
	LIN. ERR. (dB)	0.7	4	4	8	4	9	-7	-16	-11	-8	-2	-5	3	-2	5	7	7	Error (mV)
			0.17	0.17	0.31	0.18	0.38	-0.29	-0.66	-0.44	-0.34	-0.08	-0.20	0.10	-0.07	0.22	0.27	0.27	LINEARITY ERROR (dB)
10 GHz	SLOPE (mV/dB)	24.8	241	367	492	613	744	855	971	1099	1225	1356	1476	1608	1726	1856	1978	2101	Measured Value (mV)
	LIN. ERR. (dB)	0.5	2	4	5	2	9	-4	-12	-9	-6	0	-3	5	-1	5	4	2	Error (mV)
			0.06	0.15	0.18	0.08	0.34	-0.17	-0.48	-0.35	-0.26	0.01	-0.13	0.18	-0.04	0.19	0.14	0.09	LINEARITY ERROR (dB)
12 GHz	SLOPE (mV/dB)	24.4	256	380	508	630	756	853	966	1089	1214	1344	1467	1598	1719	1849	1970	2094	Measured Value (mV)
	LIN. ERR. (dB)	0.8	3	5	11	11	15	-10	-20	-18	-16	-8	-6	3	1	9	8	10	Error (mV)
			0.14	0.20	0.46	0.45	0.62	-0.40	-0.80	-0.74	-0.64	-0.31	-0.26	0.11	0.05	0.38	0.32	0.42	LINEARITY ERROR (dB)
14 GHz	SLOPE (mV/dB)	24.1	269	391	521	644	767	864	976	1106	1231	1354	1463	1592	1712	1841	1962	2088	Measured Value (mV)
	LIN. ERR. (dB)	0.7	-2	0	9	12	14	-9	-17	-8	-3	0	-11	-4	-4	5	6	11	Error (mV)
			-0.07	0.00	0.38	0.52	0.60	-0.38	-0.71	-0.33	-0.14	0.00	-0.47	-0.15	-0.15	0.20	0.25	0.47	LINEARITY ERROR (dB)
16 GHz	SLOPE (mV/dB)	24.5	239	366	493	613	736	839	952	1073	1199	1318	1439	1578	1701	1835	1964	2088	Measured Value (mV)
	LIN. ERR. (dB)	0.7	4	9	13	12	12	-7	-17	-18	-14	-17	-18	-2	-1	10	17	18	Error (mV)
			0.17	0.38	0.55	0.48	0.50	-0.30	-0.68	-0.74	-0.59	-0.70	-0.75	-0.10	-0.05	0.42	0.68	0.74	LINEARITY ERROR (dB)
18 GHz	SLOPE (mV/dB)	24.7	204	334	455	578	703	822	941	1065	1203	1320	1428	1557	1678	1809	1935	2065	Measured Value (mV)
	LIN. ERR. (dB)	0.4	-3	4	2	2	4	-1	-6	-4	10	4	-11	-5	-8	0	3	10	Error (mV)
			-0.12	0.16	0.07	0.07	0.15	-0.05	-0.23	-0.17	0.41	0.17	-0.43	-0.21	-0.31	-0.02	0.11	0.39	LINEARITY ERROR (dB)
Avg. Slope: 24.7 mV/dB			1.3	1.2	1.3	1.3	1.3	0.9	0.9	1	0.8	1	1.2	1.4	1.5	1.4	1.5	1.1	Flatness dB: -1.5 dB





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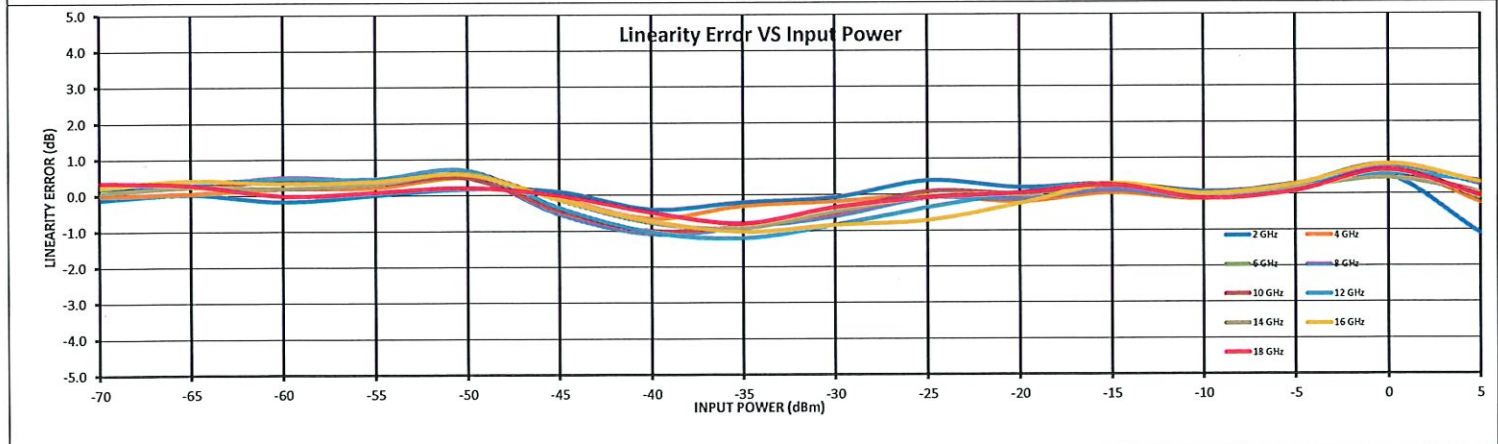
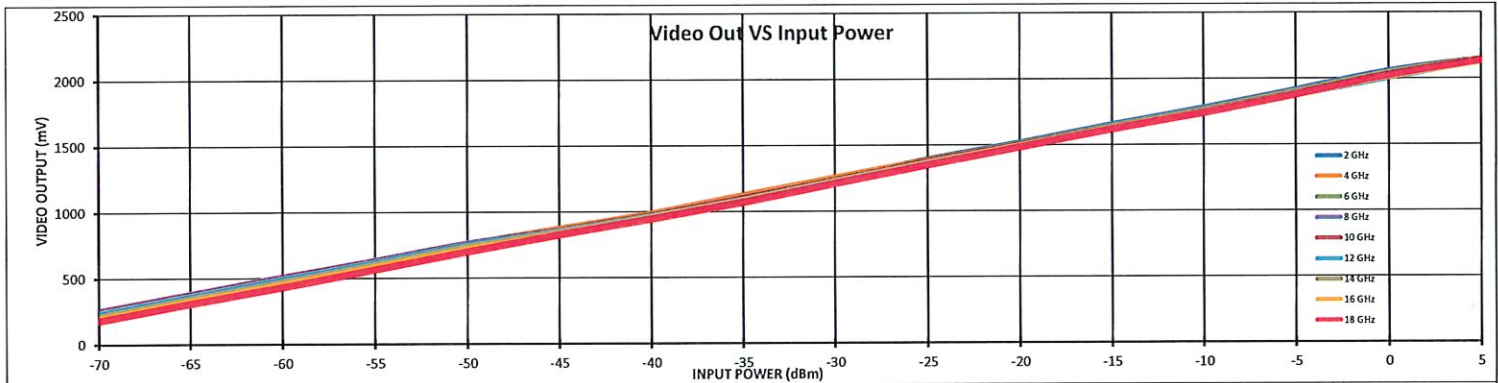
PL37921/2239

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL37921/2239
 Date: 10/18/2022
 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)	
2 GHz	2046	25.5	1.1	189	326	452	590	727	857	976	1114	1250	1394	1521	1657	1783	1919	2059	2149	Measured Value (mV)	
				-3	1	-4	0	5	3	-11	-5	-2	10	5	8	2	6	14	-29		ERROR (mV)
				-0.11	0.04	-0.17	0.01	0.19	0.10	-0.40	-0.20	-0.07	0.39	0.20	0.30	0.08	0.22	0.51	-1.10		LINEARITY ERROR (dB)
4 GHz	2029	25.6	0.7	239	369	500	629	763	877	990	1126	1257	1389	1513	1647	1770	1906	2048	2150	Measured Value (mV)	
				0	1	5	6	12	-2	-17	-8	-5	-1	-5	1	-4	5	19	-7		ERROR (mV)
				-0.01	0.05	0.19	0.22	0.48	-0.08	-0.66	-0.31	-0.20	-0.04	-0.20	0.04	-0.14	0.18	0.73	-0.25		LINEARITY ERROR (dB)
6 GHz	2024	25.5	1.0	243	372	504	631	763	866	977	1108	1244	1385	1513	1647	1769	1903	2045	2148	Measured Value (mV)	
				5	7	10	10	14	-10	-26	-23	-15	-2	0	6	0	7	21	-3		ERROR (mV)
				0.20	0.26	0.40	0.40	0.56	-0.40	-1.03	-0.91	-0.57	-0.06	-0.01	0.23	0.00	0.27	0.81	-0.14		LINEARITY ERROR (dB)
8 GHz	2010	25.1	1.1	259	385	515	639	767	866	978	1108	1241	1380	1504	1636	1766	1890	2030	2142	Measured Value (mV)	
				8	7	13	11	13	-13	-27	-23	-15	-2	-3	3	-3	6	20	7		ERROR (mV)
				0.31	0.30	0.51	0.43	0.53	-0.53	-1.09	-0.91	-0.60	-0.09	-0.13	0.12	-0.11	0.22	0.78	0.27		LINEARITY ERROR (dB)
10 GHz	2011	25.3	1.0	249	376	506	630	760	864	976	1105	1241	1382	1507	1638	1768	1891	2026	2138	Measured Value (mV)	
				6	7	10	8	12	-11	-25	-22	-13	2	1	6	-1	6	14	1		ERROR (mV)
				0.24	0.26	0.40	0.32	0.48	-0.44	-1.01	-0.87	-0.50	0.09	0.03	0.23	-0.03	0.22	0.57	0.03		LINEARITY ERROR (dB)
12 GHz	1998	25.3	1.2	232	362	491	618	750	850	959	1081	1217	1356	1493	1625	1745	1878	2012	2133	Measured Value (mV)	
				6	9	12	12	18	-9	-26	-30	-21	-9	1	7	0	7	14	9		ERROR (mV)
				0.23	0.35	0.47	0.47	0.70	-0.35	-1.03	-1.20	-0.83	-0.36	0.05	0.29	0.02	0.29	0.56	0.36		LINEARITY ERROR (dB)
14 GHz	2004	25.6	0.9	211	344	471	602	738	847	959	1083	1223	1362	1493	1627	1747	1881	2015	2133	Measured Value (mV)	
				2	6	5	8	16	-4	-20	-24	-12	-1	1	8	-1	5	11	0		ERROR (mV)
				0.07	0.24	0.20	0.31	0.61	-0.14	-0.78	-0.93	-0.48	-0.06	0.04	0.30	-0.02	0.18	0.44	0.02		LINEARITY ERROR (dB)
16 GHz	2003	25.8	1.0	205	338	465	596	729	840	953	1074	1208	1340	1481	1624	1746	1882	2025	2140	Measured Value (mV)	
				6	11	9	10	15	-3	-19	-27	-22	-19	-7	8	1	7	21	8		ERROR (mV)
				0.24	0.42	0.34	0.40	0.58	-0.13	-0.73	-1.03	-0.84	-0.72	-0.26	0.29	0.02	0.28	0.83	0.31		LINEARITY ERROR (dB)
18 GHz	2007	25.2	0.802	179	308	432	565	700	825	944	1067	1210	1348	1483	1620	1741	1877	2024	2136	Measured Value (mV)	
				9	7	0	2	6	0	-13	-21	-9	-2	1	7	-3	2	17	-2		ERROR (mV)
				0.35	0.28	-0.01	0.09	0.21	-0.01	-0.49	-0.80	-0.35	-0.08	0.04	0.26	-0.13	0.08	0.66	-0.07		LINEARITY ERROR (dB)
Avg. Slope: 25.7 mV/dB				1.6	1.5	1.6	1.4	1.3	1	0.9	1.2	1	1.1	0.8	0.7	0.8	0.8	0.9	0.3	Flatness dB: ±1.6 dB	

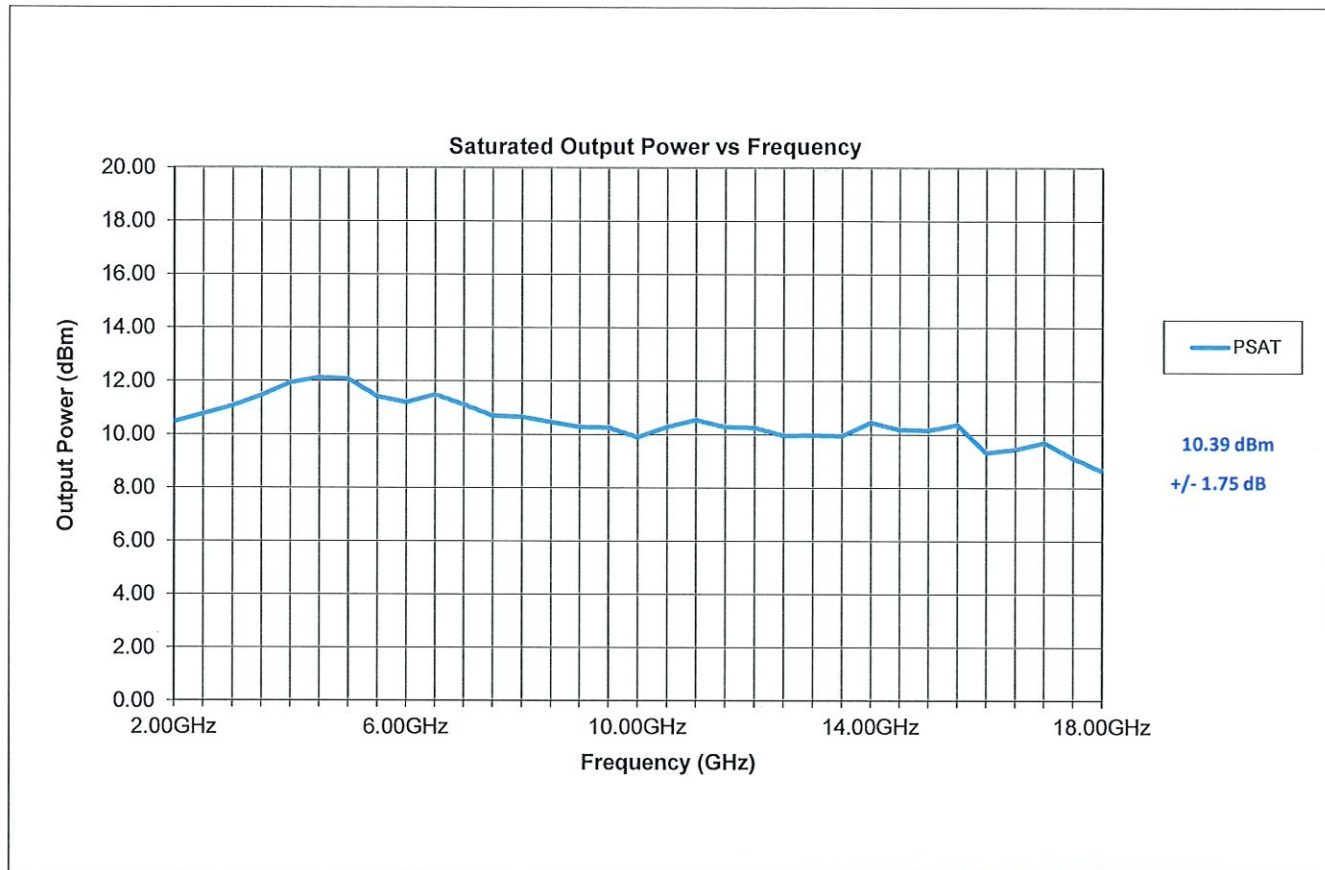




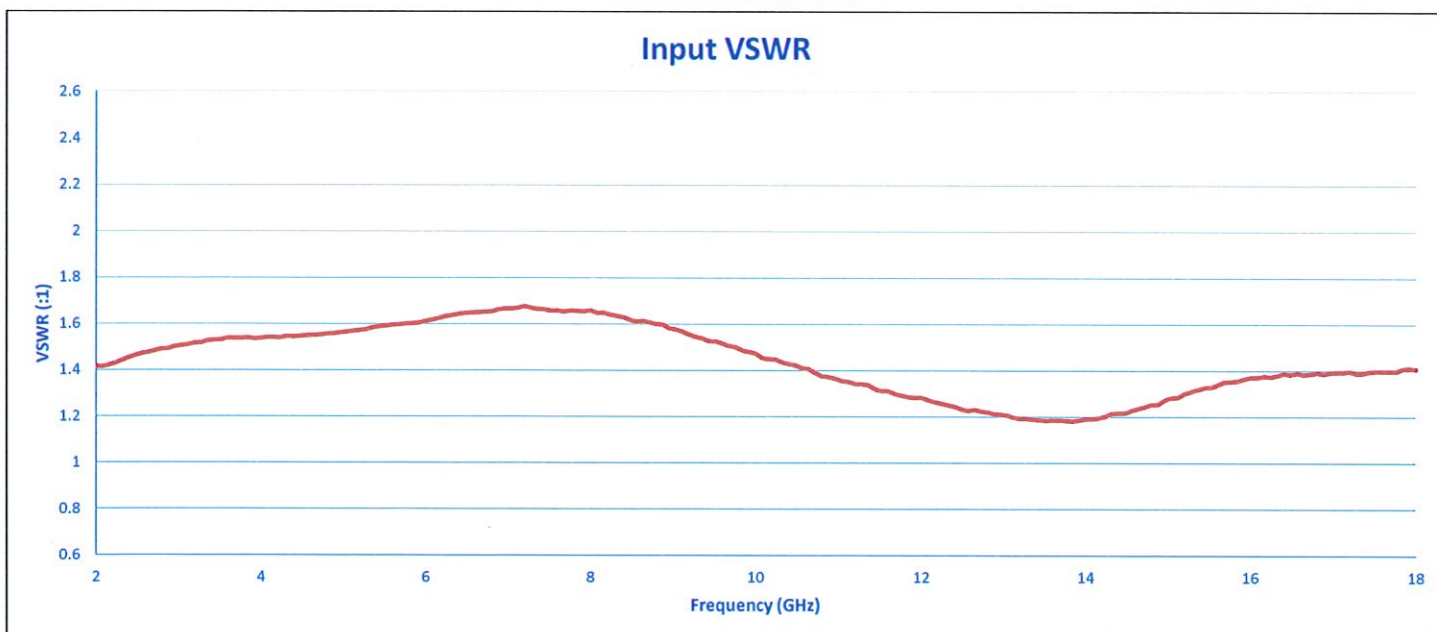
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37921/2239

PSAT



INPUT VSWR

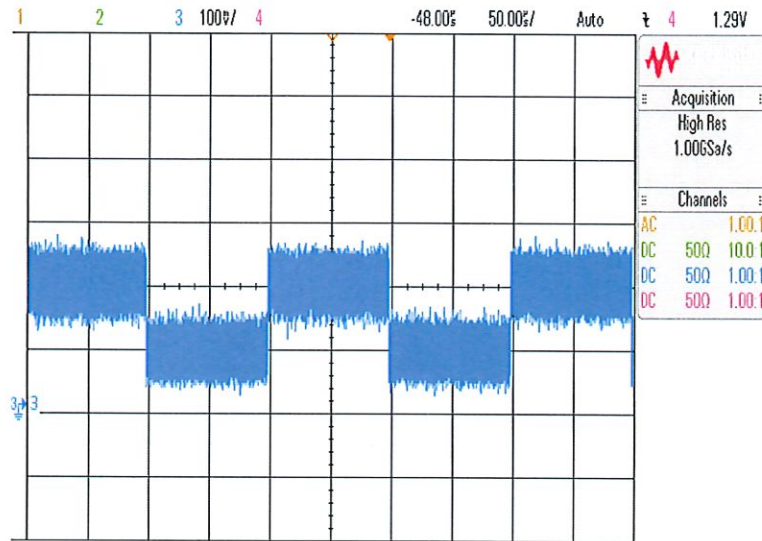




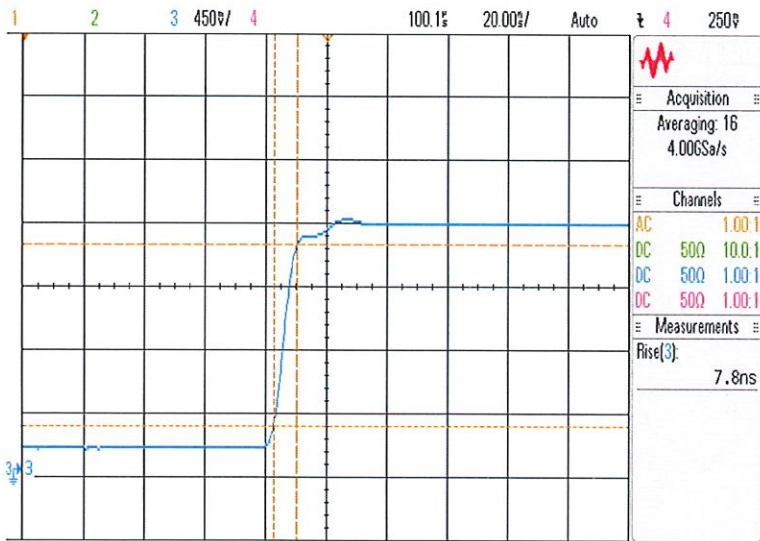
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL37921/2239

TSS



Rise Time



Fall Time

