



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

PL41947/2335

Customer: _____	Tested By: RCombs
SO No: _____	Temperature: +25° C
Model No: <u>SDLVA-6G18G-CD-2-OPT218</u>	Date: <u>8/31/2023</u>
Serial No: <u>PL41947/2335</u>	Drawing No: <u>27623906</u> Rev: <u>A1</u>

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	±1.2 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	11.96 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.6 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)	±1.1 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	6.3 ns	
12	Recovery Time:	60 ns Typical	44.5 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 263 mA -12V @ 98 mA	PMI QA2

QA/QC Approval: *Cameron Miley* PMI
QA2 Date: _____



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ON
SDLVA-6G18G-CD-2-OPT218**

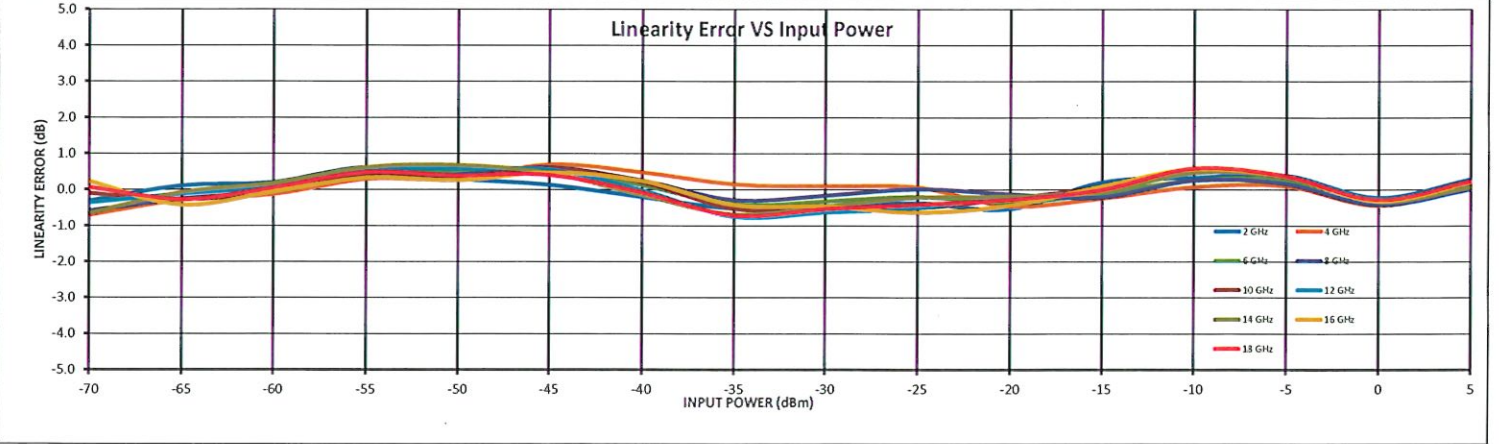
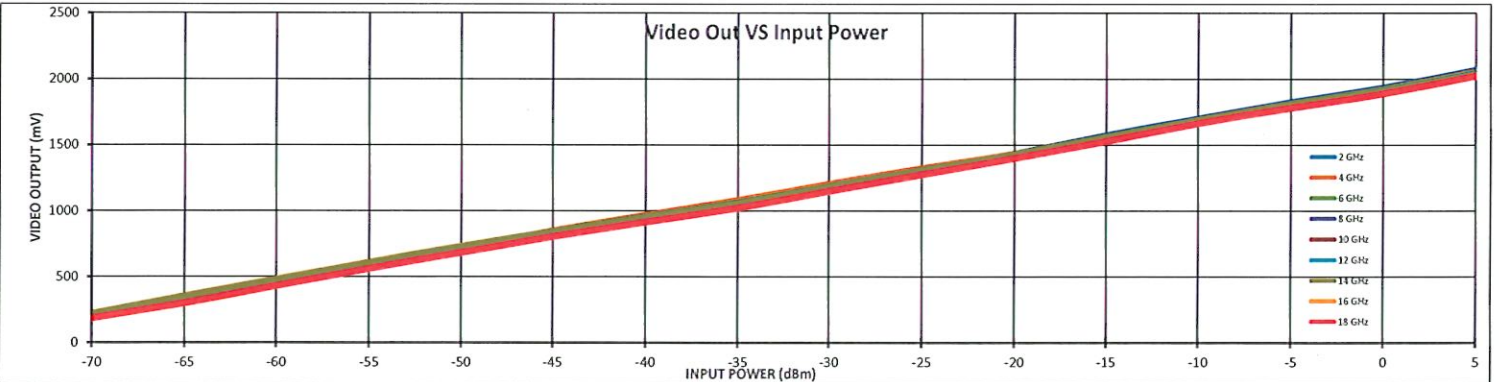
PL41947/2335

Log Transfer Over Frequency +85°C



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL41947/2335
Date: 8/31/2023
Tested By: RCombs
Test Temp: +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	1945	24.6	0.6	213	347	472	605	721	840	955	1070	1195	1320	1439	1581	1707	1831	1939	2075	Measured Value (mV)
				-8	3	5	15	7	3	-5	-13	-11	-9	-13	5	8	10	-5	7	ERROR (mV)
				-0.32	0.11	0.20	0.62	0.30	0.14	-0.20	-0.52	-0.46	-0.37	-0.53	0.21	0.33	0.40	-0.22	0.29	LINEARITY ERROR (dB)
4 GHz	1937	24.4	0.7	208	340	466	599	721	853	971	1085	1205	1327	1437	1564	1694	1817	1926	2061	Measured Value (mV)
				-18	-7	-3	7	7	17	12	3	2	2	-11	-6	2	3	-11	2	ERROR (mV)
				-0.72	-0.30	-0.14	0.29	0.29	0.69	0.48	0.14	0.09	0.07	-0.46	-0.24	0.07	0.11	-0.45	0.03	LINEARITY ERROR (dB)
6 GHz	1928	24.3	0.6	214	348	474	605	727	850	961	1069	1192	1317	1434	1562	1692	1813	1921	2053	Measured Value (mV)
				-16	-3	2	11	12	14	3	-10	-9	-5	-9	-2	6	7	-7	3	ERROR (mV)
				-0.65	-0.11	0.08	0.47	0.51	0.57	0.12	-0.41	-0.33	-0.19	-0.36	-0.10	0.26	0.27	-0.28	0.13	LINEARITY ERROR (dB)
8 GHz	1921	24.3	0.6	204	334	460	593	715	842	954	1063	1187	1314	1432	1551	1684	1803	1911	2043	Measured Value (mV)
				-18	-5	-2	9	10	15	6	-7	-4	1	-3	-5	6	4	-10	0	ERROR (mV)
				-0.60	-0.25	-0.07	0.38	0.41	0.62	0.26	-0.29	-0.16	0.02	-0.12	-0.21	0.26	0.16	-0.41	0.01	LINEARITY ERROR (dB)
10 GHz	1921	24.7	0.6	188	308	437	571	694	824	938	1043	1167	1291	1421	1552	1685	1806	1914	2047	Measured Value (mV)
				-3	-7	-2	10	8	15	5	-13	-13	-12	-6	2	12	9	-8	2	ERROR (mV)
				-0.11	-0.28	-0.06	0.39	0.33	0.60	0.22	-0.53	-0.52	-0.50	-0.24	0.07	0.49	0.35	-0.31	0.10	LINEARITY ERROR (dB)
12 GHz	1915	24.3	0.7	202	330	457	590	712	833	941	1045	1169	1294	1423	1549	1684	1803	1909	2042	Measured Value (mV)
				-9	-3	2	14	14	14	0	-18	-15	-12	-5	-1	12	9	-6	5	ERROR (mV)
				-0.36	-0.11	0.09	0.56	0.56	0.56	-0.01	-0.75	-0.63	-0.51	-0.21	-0.04	0.50	0.39	-0.25	0.20	LINEARITY ERROR (dB)
14 GHz	1914	24.0	0.7	217	351	477	608	729	844	950	1057	1182	1308	1429	1552	1685	1803	1906	2036	Measured Value (mV)
				-16	-2	4	15	16	11	-3	-17	-11	-5	-4	-1	11	9	-8	2	ERROR (mV)
				-0.66	-0.07	0.18	0.62	0.68	0.45	-0.14	-0.69	-0.47	-0.22	-0.19	-0.06	0.47	0.36	-0.33	0.07	LINEARITY ERROR (dB)
16 GHz	1906	24.8	0.6	177	285	418	551	673	803	921	1028	1151	1271	1400	1537	1673	1792	1899	2035	Measured Value (mV)
				6	-11	-2	8	6	12	6	-11	-11	-16	-11	2	14	9	-8	5	ERROR (mV)
				0.22	-0.43	-0.07	0.32	0.26	0.48	0.25	-0.43	-0.46	-0.64	-0.43	0.09	0.57	0.37	-0.31	0.21	LINEARITY ERROR (dB)
18 GHz	1896	24.5	0.7	184	298	429	562	682	804	915	1022	1148	1274	1400	1529	1666	1783	1889	2024	Measured Value (mV)
				1	-7	1	12	10	10	-2	-18	-13	-10	-7	0	14	9	-7	6	ERROR (mV)
				0.06	-0.27	0.05	0.49	0.39	0.41	-0.08	-0.72	-0.54	-0.41	-0.28	0.00	0.59	0.37	-0.28	0.23	LINEARITY ERROR (dB)
Avg. Slope: 24.4 mV/dB				0.8	1.4	1.2	1.2	1.1	1	1.1	1.3	1.2	1.2	0.8	1.1	0.8	1	1	1	Flatness dB: ±1.4 dB





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

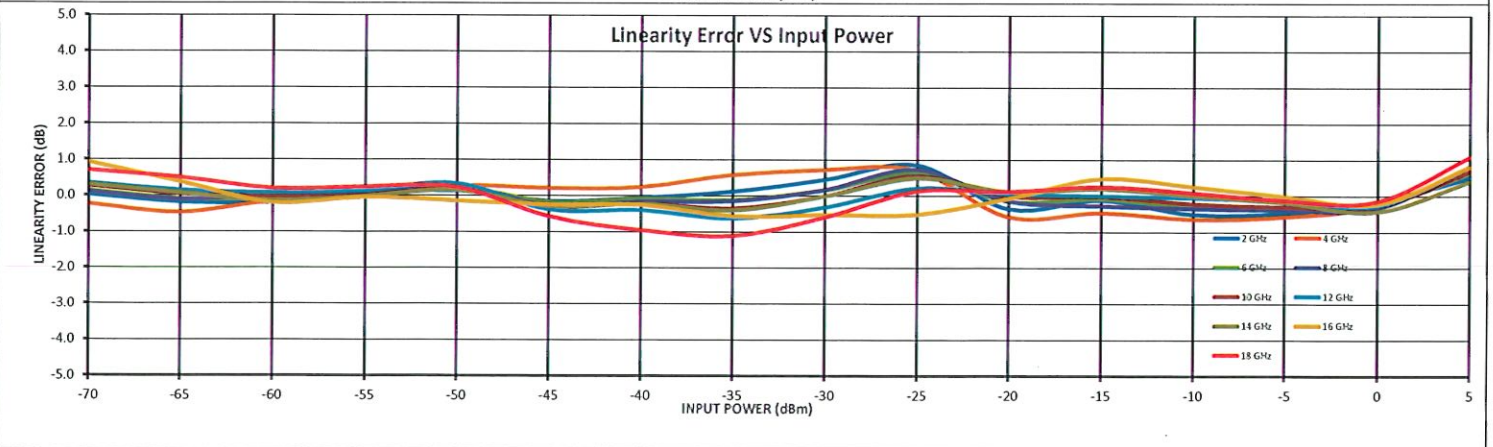
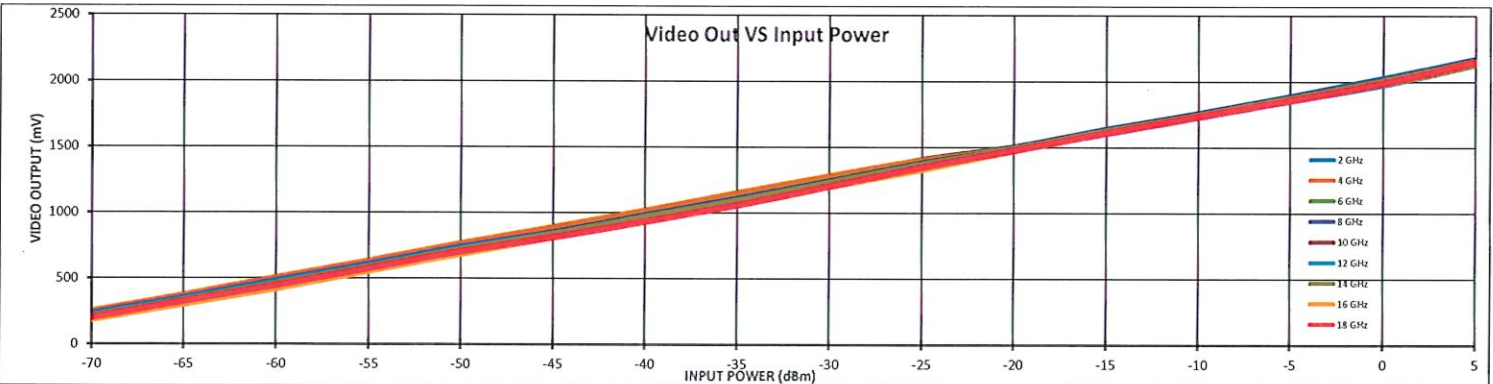
PL41947/2335

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL41947/2335
 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)
2 GHz	2034	25.9	0.9	219	343	473	609	741	863	995	1129	1268	1408	1506	1642	1761	1892	2030	2177	Measured Value (mV)
				1	-5	-5	1	4	-4	-1	3	12	22	-9	-3	-13	-12	-4	13	ERROR (mV)
				0.03	-0.18	-0.20	0.05	0.14	-0.15	-0.06	0.12	0.45	0.86	-0.36	-0.11	-0.51	-0.46	-0.14	0.51	LINEARITY ERROR (dB)
4 GHz	2017	25.1	0.8	252	372	505	634	767	891	1018	1152	1281	1407	1500	1628	1750	1872	2010	2162	Measured Value (mV)
				-6	-12	-4	-1	7	5	6	14	18	18	-15	-12	-16	-14	-7	19	ERROR (mV)
				-0.23	-0.47	-0.16	-0.05	0.27	0.20	0.24	0.57	0.72	0.71	-0.58	-0.47	-0.65	-0.57	-0.27	0.75	LINEARITY ERROR (dB)
6 GHz	2009	25.5	0.6	227	348	476	605	739	857	987	1113	1248	1387	1495	1625	1748	1872	2002	2153	Measured Value (mV)
				4	-2	-2	-1	6	-5	-2	-3	4	16	-4	-2	-8	-10	-7	16	ERROR (mV)
				0.14	-0.09	-0.10	-0.04	0.23	-0.18	-0.08	-0.12	0.16	0.63	-0.15	-0.08	-0.31	-0.38	-0.27	0.64	LINEARITY ERROR (dB)
8 GHz	1996	25.2	0.8	235	356	485	612	744	855	984	1111	1245	1385	1489	1612	1736	1861	1988	2143	Measured Value (mV)
				3	-3	0	1	7	-7	-4	-4	4	18	-3	-7	-9	-10	-8	21	ERROR (mV)
				0.11	-0.11	0.01	0.04	0.29	-0.29	-0.17	-0.15	0.17	0.73	-0.13	-0.27	-0.35	-0.38	-0.33	0.82	LINEARITY ERROR (dB)
10 GHz	2002	25.5	0.7	222	344	469	598	731	846	975	1100	1236	1378	1491	1619	1741	1867	1995	2147	Measured Value (mV)
				7	1	-1	0	5	-8	-5	-9	0	14	0	0	-6	-8	-7	17	ERROR (mV)
				0.27	0.04	-0.05	-0.01	0.20	-0.30	-0.22	-0.35	-0.02	0.55	-0.01	-0.02	-0.22	-0.30	-0.27	0.68	LINEARITY ERROR (dB)
12 GHz	1989	25.4	0.8	220	342	467	595	727	835	963	1084	1219	1359	1482	1603	1733	1858	1982	2136	Measured Value (mV)
				9	4	2	3	9	-10	-10	-16	-8	6	1	0	-1	-3	-7	21	ERROR (mV)
				0.35	0.14	0.08	0.14	0.34	-0.38	-0.40	-0.63	-0.31	0.22	0.06	0.01	-0.04	-0.12	-0.26	0.82	LINEARITY ERROR (dB)
14 GHz	1997	25.7	0.5	209	331	454	585	718	835	965	1089	1227	1368	1487	1617	1740	1864	1986	2136	Measured Value (mV)
				8	2	-4	-1	4	-8	-6	-10	0	13	3	5	0	-5	-11	10	ERROR (mV)
				0.31	0.07	-0.15	-0.03	0.14	-0.29	-0.23	-0.40	-0.02	0.49	0.12	0.20	0.00	-0.18	-0.43	0.40	LINEARITY ERROR (dB)
16 GHz	1994	26.3	0.9	176	293	410	545	674	803	935	1058	1190	1322	1466	1611	1737	1862	1988	2147	Measured Value (mV)
				24	10	-5	-1	-4	-6	-7	-15	-14	-14	-2	12	7	0	-6	21	ERROR (mV)
				0.92	0.37	-0.20	-0.05	-0.15	-0.24	-0.25	-0.57	-0.53	-0.52	-0.07	0.47	0.26	-0.02	-0.22	0.81	LINEARITY ERROR (dB)
18 GHz	1993	25.9	1.114	199	323	445	575	705	813	933	1058	1201	1349	1478	1611	1736	1860	1989	2150	Measured Value (mV)
				18	13	5	5	6	-15	-25	-29	-16	3	3	7	2	-3	-4	28	ERROR (mV)
				0.70	0.49	0.19	0.24	0.24	-0.58	-0.95	-1.11	-0.60	0.13	0.12	0.25	0.08	-0.12	-0.14	1.08	LINEARITY ERROR (dB)
Avg. Slope: 25.6 mV/dB				1.5	1.5	1.9	1.7	1.8	1.7	1.7	1.8	1.8	1.7	0.8	0.7	0.5	0.7	0.9	0.8	Flatness dB: ±1.9 dB

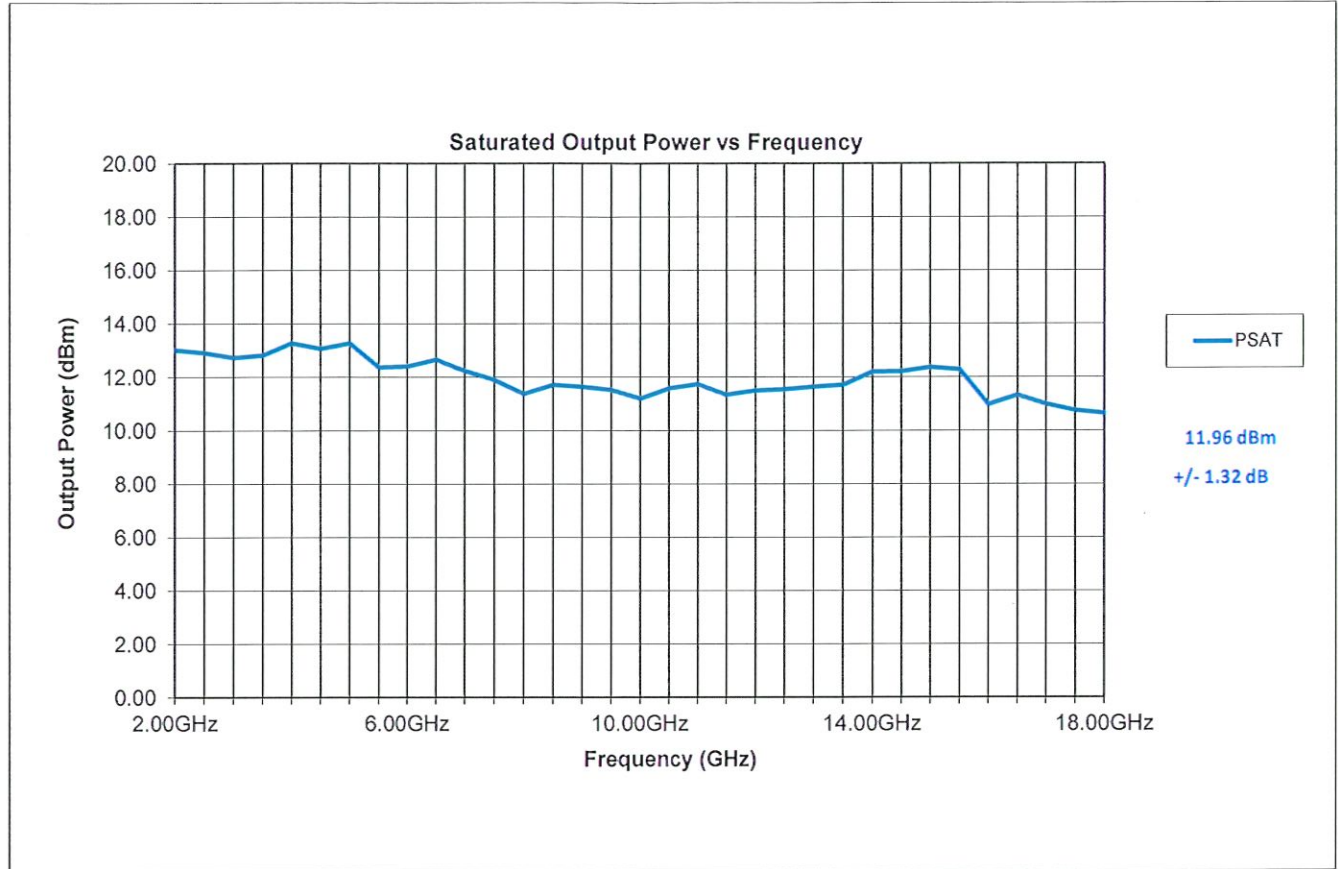




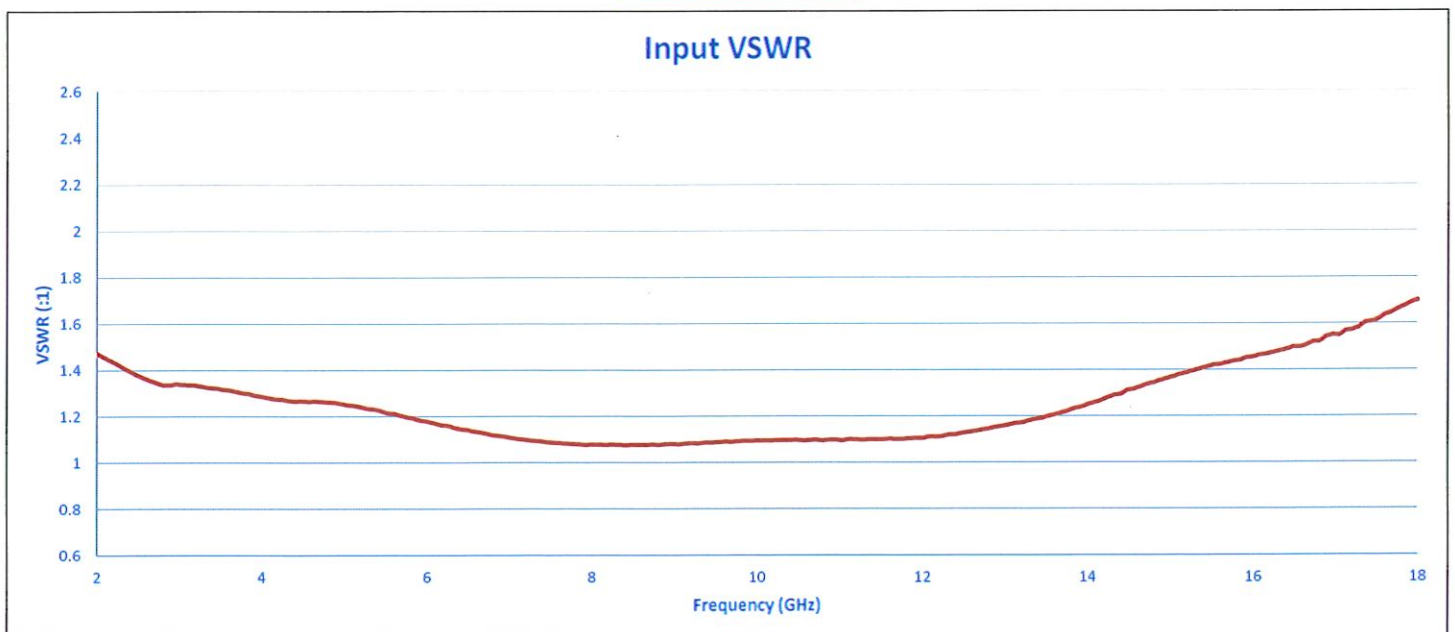
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL41947/2335

PSAT



INPUT VSWR

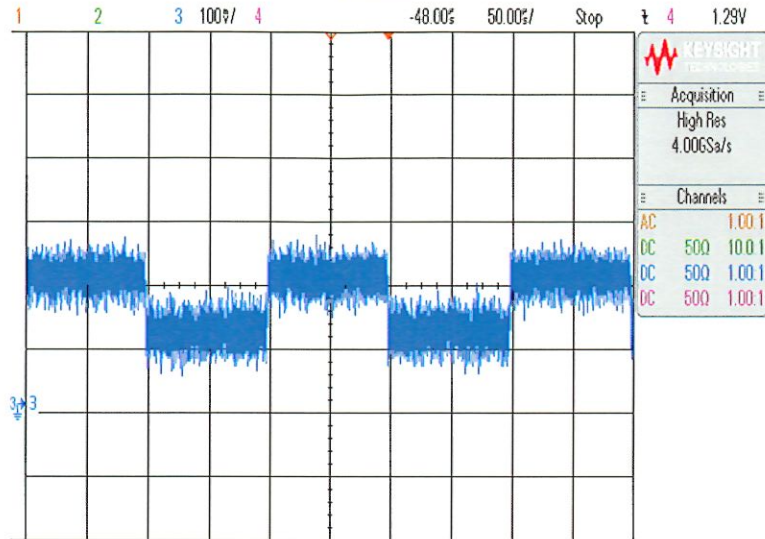




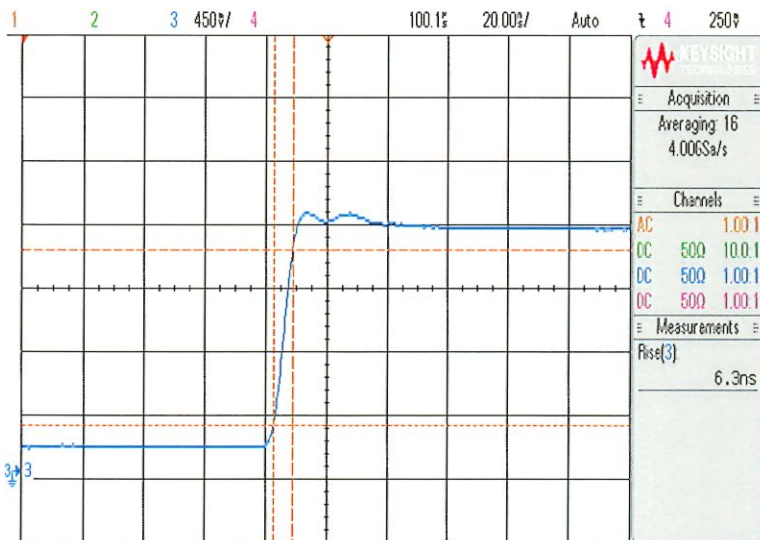
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

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TSS



Rise Time



Fall Time

