



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

PL38189/2243

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/25/2022
 Serial No: PL38189/2243 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)	1.6:1 (Input)		
5	Power Input:	+17 dBm CW Maximum	Pass		
6	RF Out:	+13 dBm ±3 dB Typical	12.93 dBm Avg.		
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.8 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)	±1.8 dB See Plots		
10	Pulse Range:	30 ns to CW	Pass		
11	Rise Time:	10 ns (6 ns Typical)	5.8 ns		
12	Recovery Time:	60 ns Typical	40.5 ns		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 266 mA -12V @ 98 mA		PMI QA2

QA/QC Approval: PMI QA2 Date: 10/27/2022



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

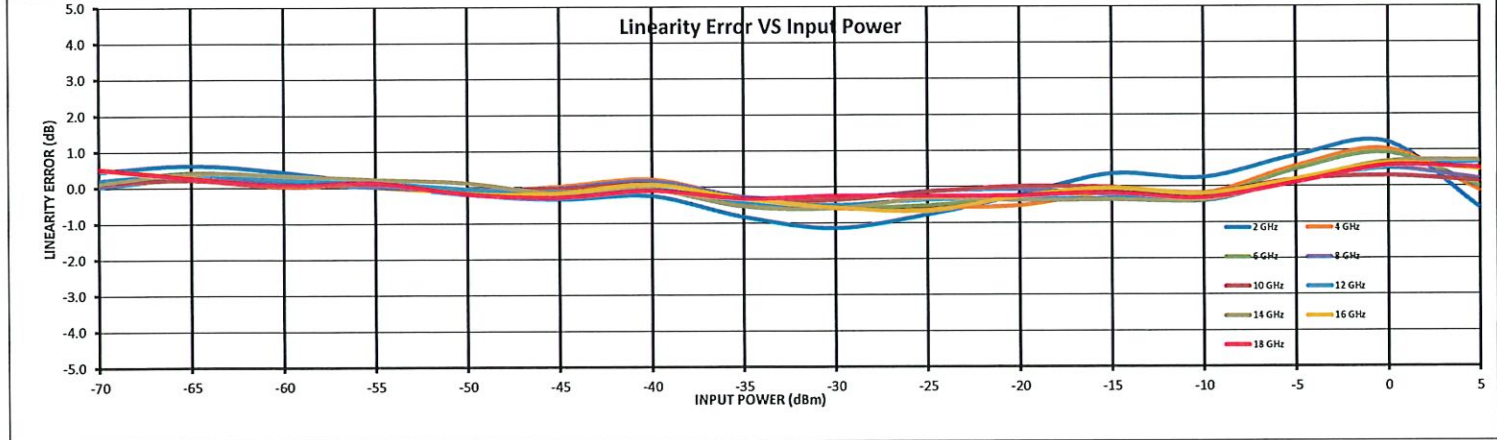
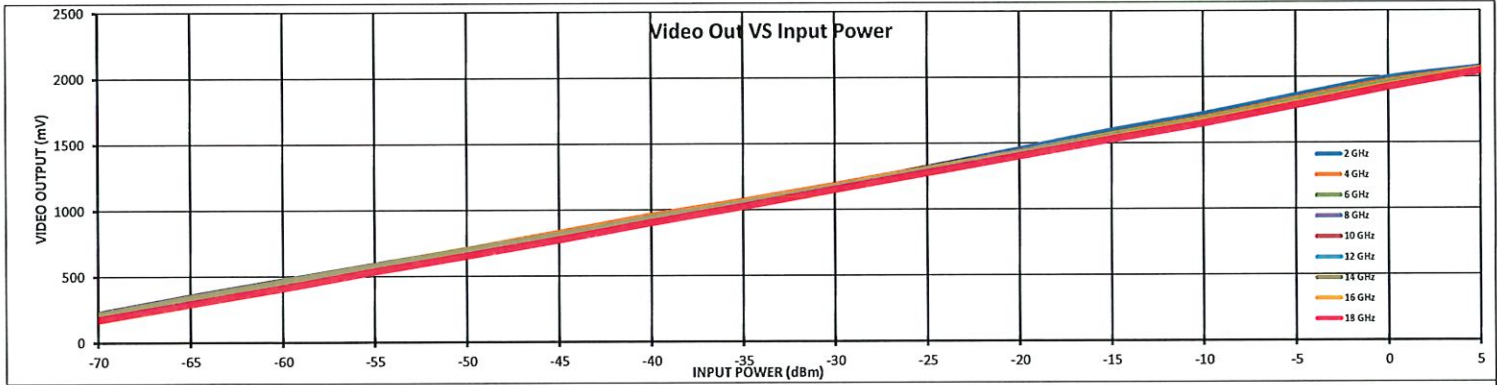
PL38189/2243

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL38189/2243
 Date: 10/25/2022
 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	1963	25.0	1.2	221	351	471	588	706	827	955	1065	1183	1317	1456	1596	1718	1859	1993	2073	Measured Value (mV)
				12	16	11	3	-5	-8	-6	-21	-29	-19	-6	9	6	22	31	-15	Error (mV)
				0.46	0.63	0.44	0.12	-0.19	-0.33	-0.24	-0.83	-1.15	-0.77	-0.23	0.36	0.25	0.86	1.22	-0.60	LINEARITY ERROR (dB)
4 GHz	1942	24.7	1.0	216	346	466	584	705	831	959	1070	1186	1311	1435	1568	1690	1833	1968	2063	Measured Value (mV)
				3	9	6	0	-2	1	5	-8	-15	-14	-13	-4	-5	14	25	-3	Error (mV)
				0.13	0.38	0.26	0.01	-0.09	0.02	0.21	-0.31	-0.60	-0.57	-0.53	-0.16	-0.21	0.55	1.03	-0.13	LINEARITY ERROR (dB)
6 GHz	1933	24.7	0.9	208	337	457	576	696	818	945	1057	1177	1303	1432	1561	1679	1821	1956	2056	Measured Value (mV)
				4	11	7	2	-2	-4	1	-11	-14	-13	-7	-1	-7	12	23	0	Error (mV)
				0.17	0.43	0.28	0.10	-0.06	-0.14	0.03	-0.46	-0.58	-0.52	-0.28	-0.06	-0.29	0.48	0.93	-0.02	LINEARITY ERROR (dB)
8 GHz	1924	24.6	0.5	200	329	448	570	691	815	943	1055	1177	1305	1430	1549	1668	1805	1937	2052	Measured Value (mV)
				1	7	3	1	-1	0	5	-7	-8	-3	-2	-6	-10	4	12	5	Error (mV)
				0.03	0.27	0.11	0.02	-0.05	-0.01	0.18	-0.27	-0.33	-0.13	-0.07	-0.22	-0.40	0.17	0.51	0.20	LINEARITY ERROR (dB)
10 GHz	1917	24.8	0.4	187	313	432	558	678	802	929	1042	1165	1294	1422	1545	1665	1798	1924	2044	Measured Value (mV)
				3	5	1	3	-1	-1	2	-9	-9	-4	0	-1	-4	5	7	3	Error (mV)
				0.12	0.22	0.02	0.11	-0.04	-0.04	0.08	-0.35	-0.37	-0.15	0.00	-0.02	-0.18	0.19	0.29	0.13	LINEARITY ERROR (dB)
12 GHz	1912	24.6	0.7	197	324	443	564	682	803	930	1042	1162	1289	1413	1535	1658	1794	1925	2052	Measured Value (mV)
				5	10	5	3	-1	-3	1	-10	-12	-9	-8	-8	-8	5	13	17	Error (mV)
				0.22	0.39	0.22	0.14	-0.04	-0.13	0.03	-0.39	-0.50	-0.35	-0.32	-0.34	-0.33	0.19	0.53	0.68	LINEARITY ERROR (dB)
14 GHz	1919	24.7	0.7	211	340	460	580	700	814	940	1050	1171	1300	1421	1543	1665	1801	1936	2059	Measured Value (mV)
				3	10	8	6	3	-4	-1	-13	-14	-8	-9	-9	-9	4	17	18	Error (mV)
				0.12	0.41	0.34	0.23	0.13	-0.18	-0.06	-0.54	-0.59	-0.32	-0.38	-0.36	-0.38	0.16	0.69	0.72	LINEARITY ERROR (dB)
16 GHz	1922	25.2	0.7	173	293	413	541	659	785	917	1033	1152	1276	1412	1543	1665	1801	1938	2059	Measured Value (mV)
				13	7	1	3	-4	-4	2	-8	-15	-17	-7	-1	-5	5	16	12	Error (mV)
				0.53	0.29	0.05	0.13	-0.16	-0.15	0.07	-0.32	-0.58	-0.67	-0.26	-0.04	-0.20	0.20	0.64	0.46	LINEARITY ERROR (dB)
18 GHz	1906	25.0	0.6	172	290	410	536	653	776	905	1024	1151	1275	1401	1528	1649	1784	1920	2043	Measured Value (mV)
				13	7	2	3	-5	-7	-2	-8	-6	-7	-6	-4	-8	3	14	12	Error (mV)
				0.52	0.27	0.06	0.13	-0.19	-0.28	-0.09	-0.33	-0.25	-0.27	-0.25	-0.17	-0.32	0.11	0.57	0.50	LINEARITY ERROR (dB)
Avg. Slope: 24.8 mV/dB				1	1.2	1.2	1	1.1	1.1	1.1	0.9	0.7	0.8	1.1	1.4	1.4	1.5	1.5	0.6	Flatness dB: ±1.5 dB





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

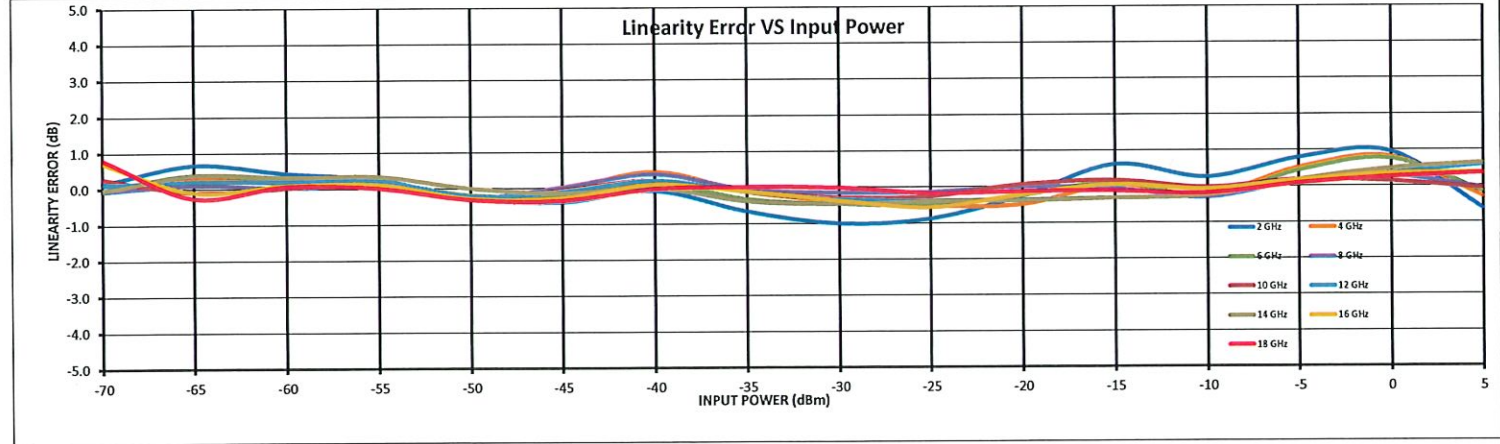
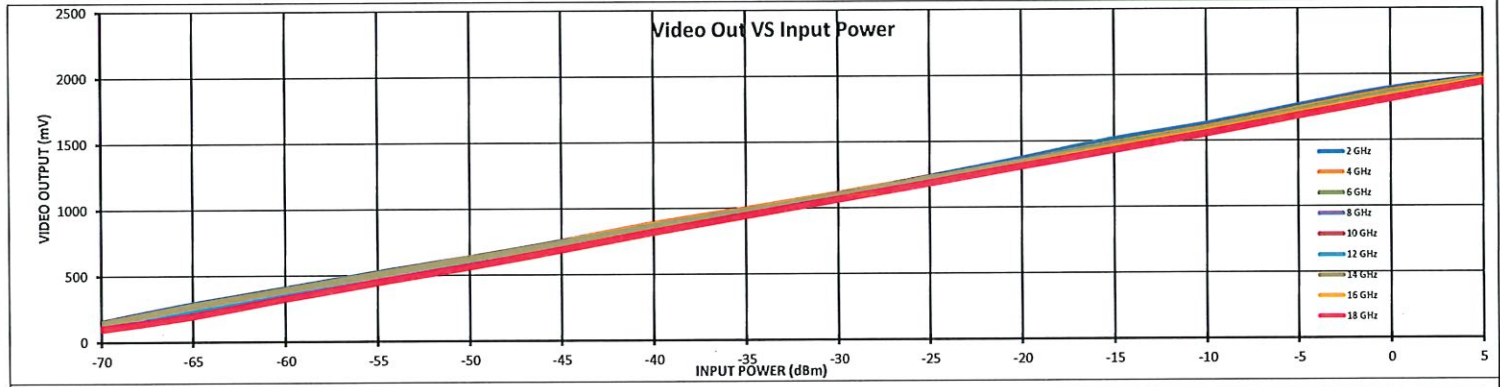
PL38189/2243

Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL38189/2243
Date: 10/25/2022
Tested By: RCombs
Test Temp: +85°C

Log Transfer Over Frequency +85°C



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)	1869																Measured Value (mV)
	SLOPE (mV/dB)	24.6																Error (mV)
	LIN. ERR. (dB)	1.0																LINEARITY ERROR (dB)
		152	288	405	523	633	753	884	992	1107	1233	1371	1515	1629	1765	1892	1976	
4 GHz	INTERCEPT (mV)	1854																Measured Value (mV)
	SLOPE (mV/dB)	24.5																Error (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
		139	270	389	510	623	751	885	994	1110	1229	1352	1488	1603	1744	1873	1969	
6 GHz	INTERCEPT (mV)	1844																Measured Value (mV)
	SLOPE (mV/dB)	24.3																Error (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
		141	273	391	511	623	746	875	985	1103	1224	1352	1482	1594	1733	1863	1962	
8 GHz	INTERCEPT (mV)	1840																Measured Value (mV)
	SLOPE (mV/dB)	24.4																Error (mV)
	LIN. ERR. (dB)	0.4																LINEARITY ERROR (dB)
		128	255	375	498	612	741	872	984	1104	1226	1352	1473	1589	1722	1847	1961	
10 GHz	INTERCEPT (mV)	1831																Measured Value (mV)
	SLOPE (mV/dB)	24.6																Error (mV)
	LIN. ERR. (dB)	0.3																LINEARITY ERROR (dB)
		113	227	353	479	592	721	850	966	1085	1209	1340	1466	1584	1712	1834	1953	
12 GHz	INTERCEPT (mV)	1830																Measured Value (mV)
	SLOPE (mV/dB)	24.4																Error (mV)
	LIN. ERR. (dB)	0.6																LINEARITY ERROR (dB)
		127	251	373	495	606	731	860	974	1091	1212	1334	1457	1580	1712	1839	1966	
14 GHz	INTERCEPT (mV)	1832																Measured Value (mV)
	SLOPE (mV/dB)	24.1																Error (mV)
	LIN. ERR. (dB)	0.6																LINEARITY ERROR (dB)
		141	273	392	513	625	743	867	978	1097	1219	1340	1463	1585	1716	1844	1969	
16 GHz	INTERCEPT (mV)	1831																Measured Value (mV)
	SLOPE (mV/dB)	24.9																Error (mV)
	LIN. ERR. (dB)	0.7																LINEARITY ERROR (dB)
		103	208	337	463	577	702	836	956	1074	1194	1327	1458	1580	1711	1840	1965	
18 GHz	INTERCEPT (mV)	1808																Measured Value (mV)
	SLOPE (mV/dB)	24.7																Error (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
		98	195	326	449	564	687	818	943	1066	1186	1310	1434	1556	1686	1814	1940	
Avg. Slope: 24.5 mV/dB		1.1	1.9	1.6	1.5	1.4	1.4	1.4	1	0.9	1	1.2	1.6	1.5	1.6	1.6	0.7	Flatness dB: ±1.9 dB





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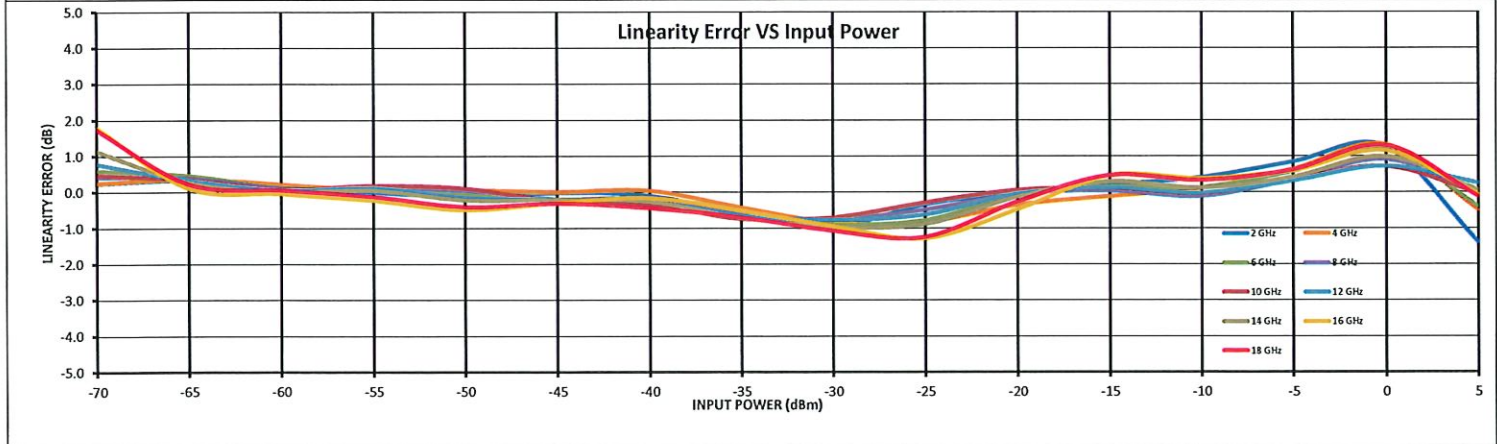
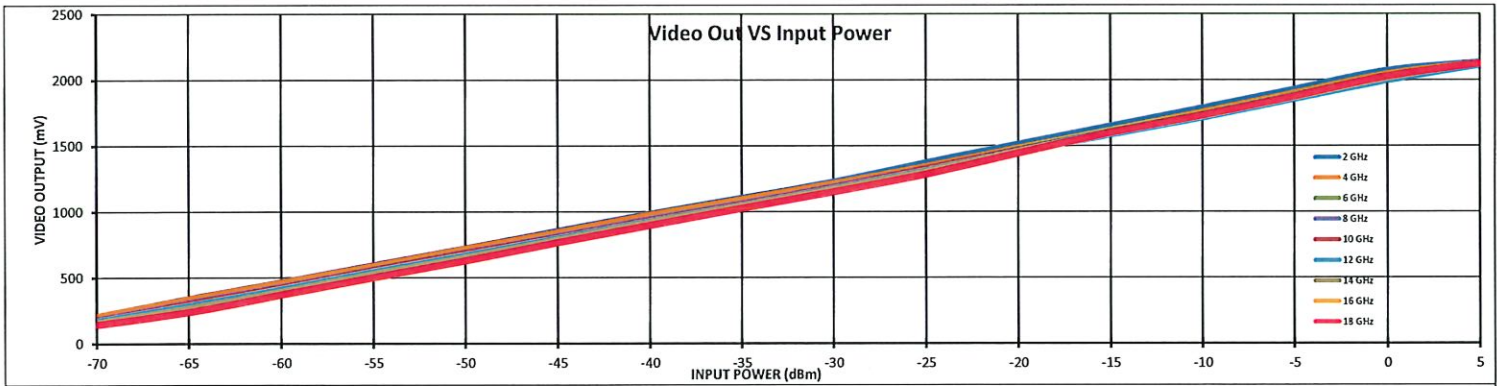
PL38189/2243

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL38189/2243
 Date: 10/25/2022
 Tested By: RCombs
 Test Temp: -40°C

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)	2043																Measured Value (mV)
	SLOPE (mV/dB)	26.3																ERROR (mV)
	LIN. ERR. (dB)	1.4																LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2016																Measured Value (mV)
	SLOPE (mV/dB)	25.9																ERROR (mV)
	LIN. ERR. (dB)	1.3																LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2008																Measured Value (mV)
	SLOPE (mV/dB)	26.3																ERROR (mV)
	LIN. ERR. (dB)	1.2																LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1994																Measured Value (mV)
	SLOPE (mV/dB)	26.0																ERROR (mV)
	LIN. ERR. (dB)	0.9																LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1988																Measured Value (mV)
	SLOPE (mV/dB)	27.0																ERROR (mV)
	LIN. ERR. (dB)	0.7																LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1979																Measured Value (mV)
	SLOPE (mV/dB)	26.1																ERROR (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1992																Measured Value (mV)
	SLOPE (mV/dB)	26.6																ERROR (mV)
	LIN. ERR. (dB)	1.1																LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1995																Measured Value (mV)
	SLOPE (mV/dB)	27.2																ERROR (mV)
	LIN. ERR. (dB)	1.8																LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1992																Measured Value (mV)
	SLOPE (mV/dB)	27.1																ERROR (mV)
	LIN. ERR. (dB)	1.739																LINEARITY ERROR (dB)
Avg. Slope: 26.4 mV/dB		1.3	2.2	2.1	2	2	1.8	1.8	1.6	1.5	1.8	1.5	1.2	1.4	1.5	1.5	0.4	Flatness dB: ±2.2 dB

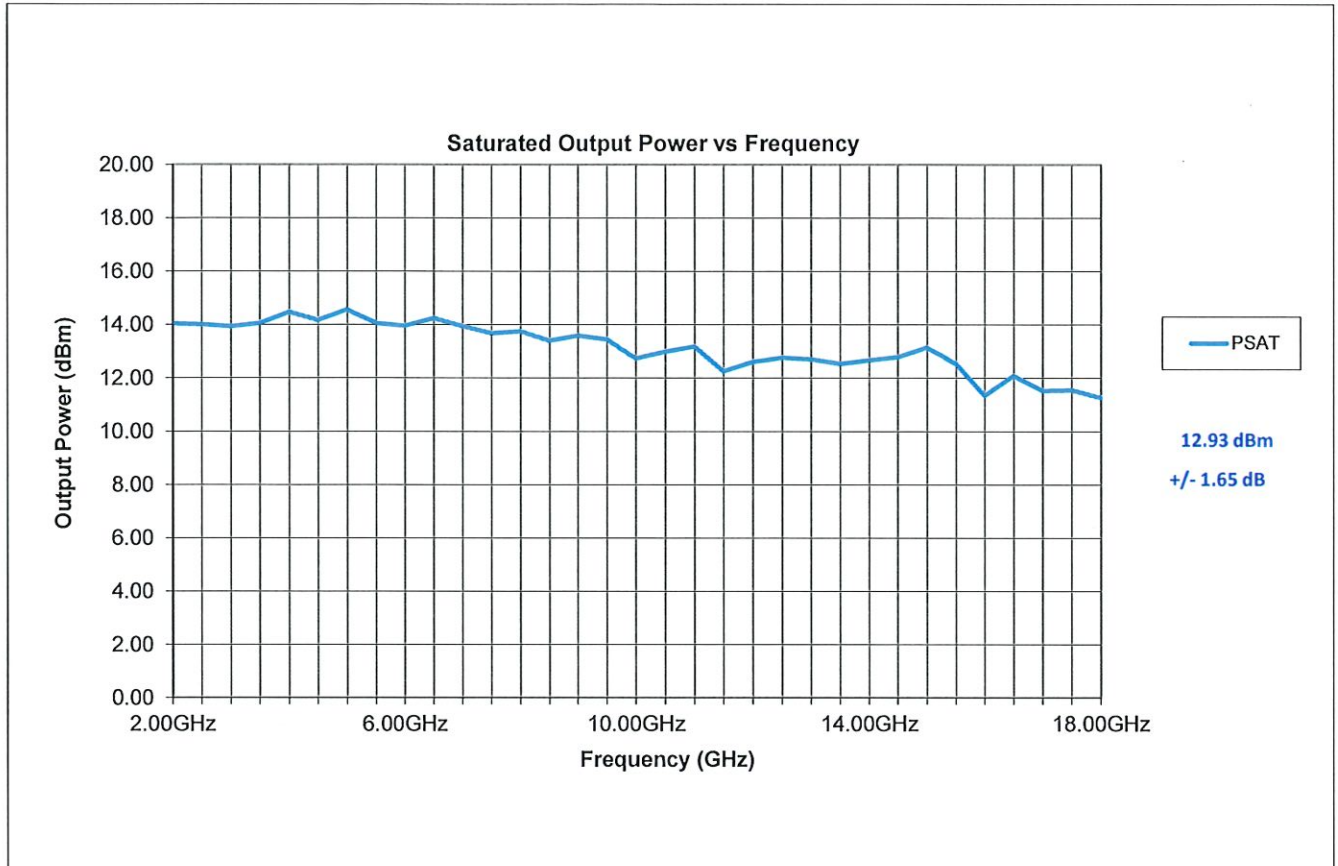




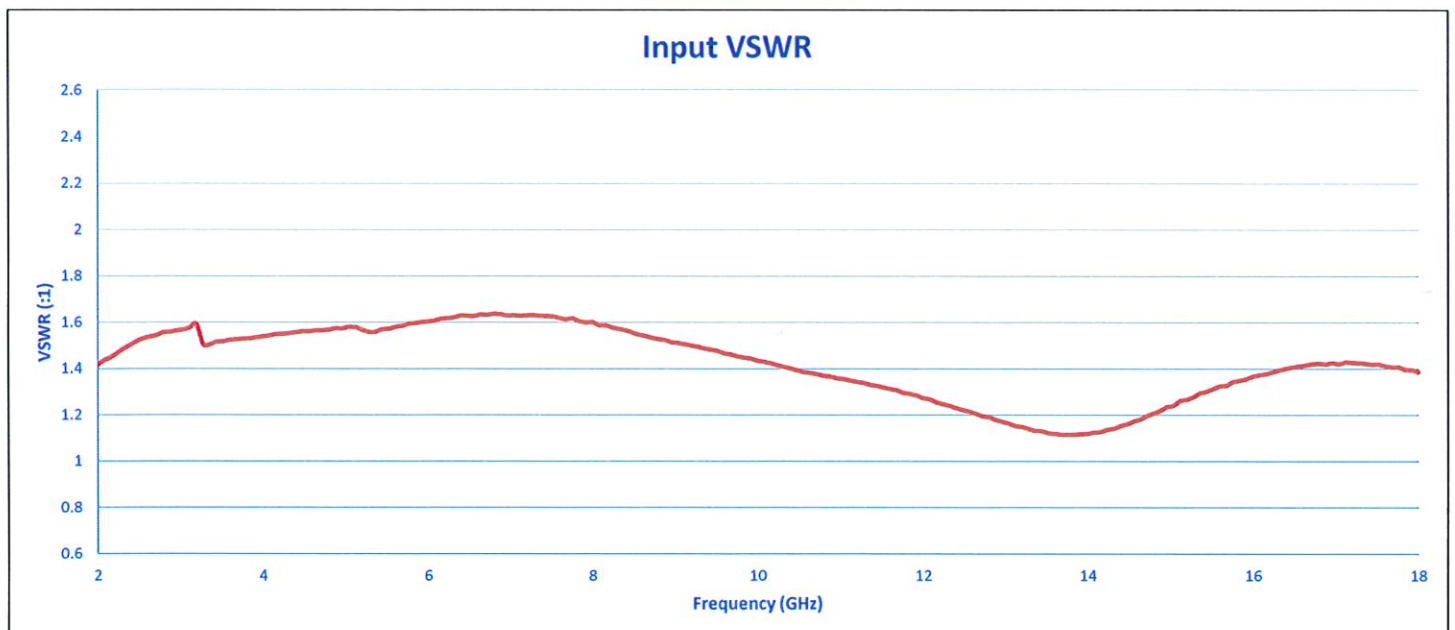
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL38189/2243

PSAT



INPUT VSWR

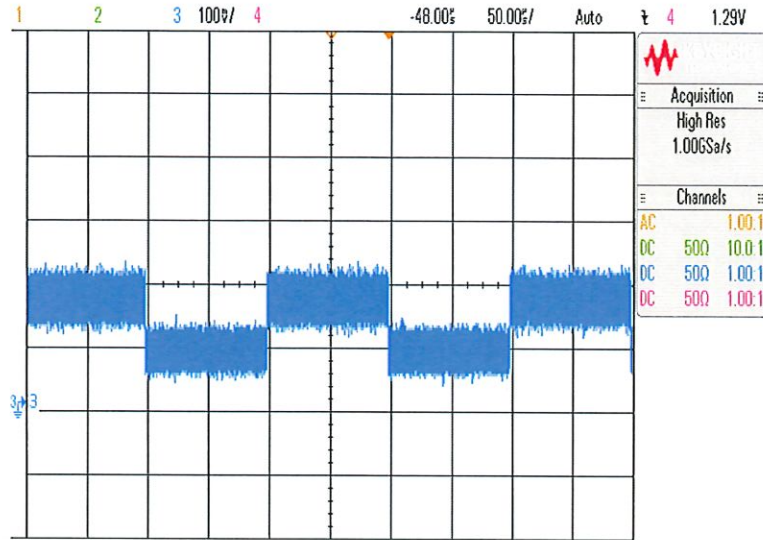




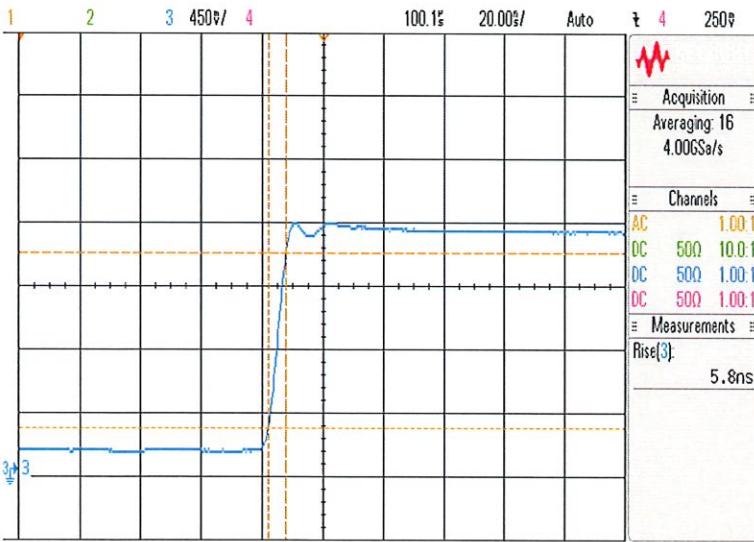
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PL38189/2243

TSS



Rise Time



Fall Time

