



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

PL42576/2342

Customer: _____ Tested By: RCombs
 SO No: _____ Temperature: +25° C
 Model No: SDLVA-6G18G-CD-2-OPT218 Date: 10/30/2023
 Serial No: PL42576/2342 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	±1.3 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	13.24 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)	±1.9 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	62.5		
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 270 mA -12V @ 100 mA		PMI QA2

QA/QC Approval:  PMI
QA2 Date: 10/31/2023



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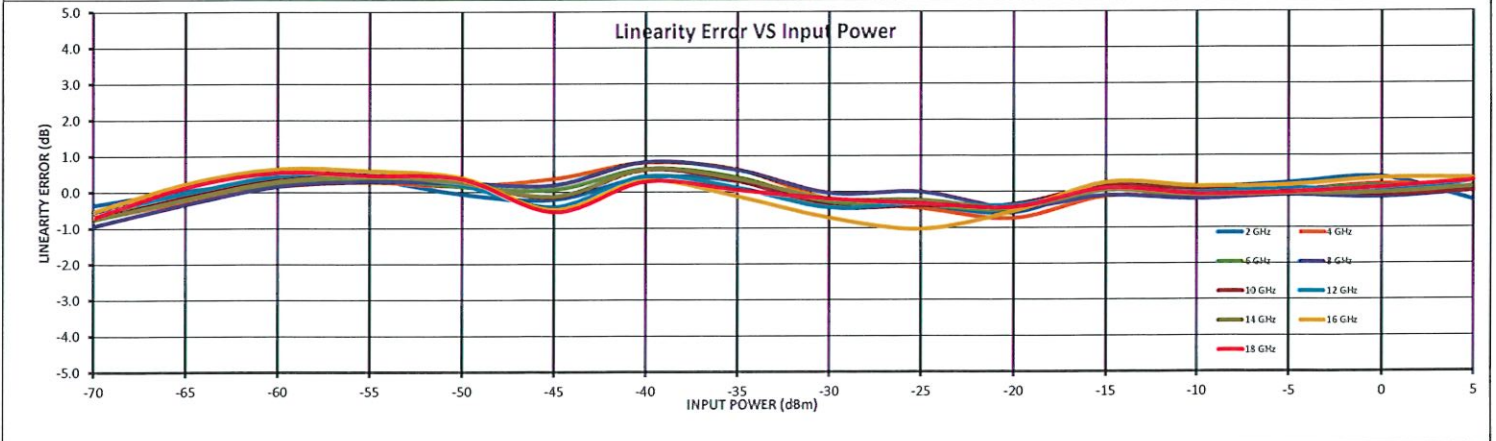
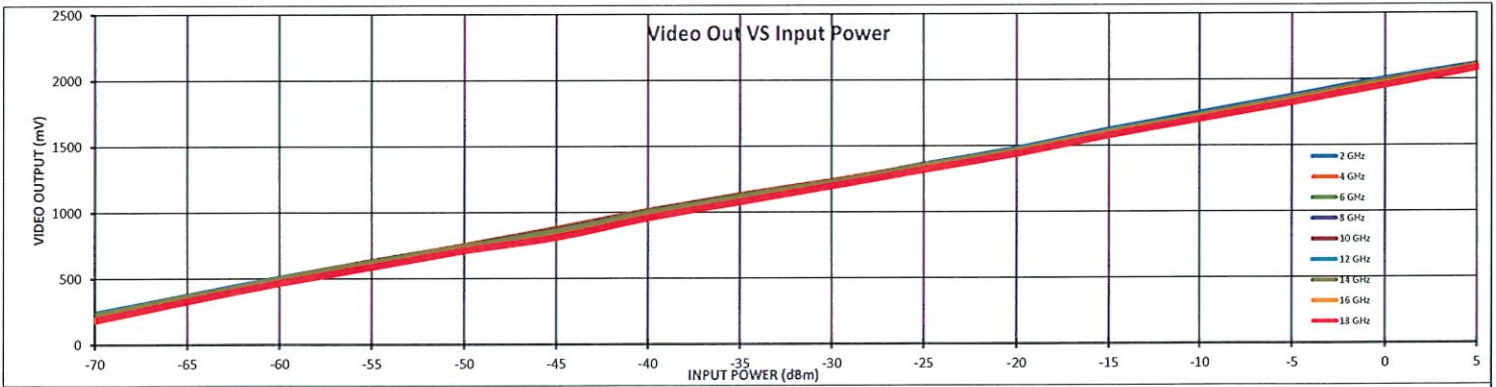
PL42576/2342



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL42576/2342
 Date: 10/30/2023
 Tested By: RCombs
 Test Temp: +25°C

Log Transfer Over Frequency +25°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)	1992																Measured Value (mV)
	SLOPE (mV/dB)	25.0																ERROR (mV)
	LIN. ERR. (dB)	0.6																LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1931																Measured Value (mV)
	SLOPE (mV/dB)	24.7																ERROR (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1976																Measured Value (mV)
	SLOPE (mV/dB)	24.7																ERROR (mV)
	LIN. ERR. (dB)	0.7																LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1963																Measured Value (mV)
	SLOPE (mV/dB)	24.5																ERROR (mV)
	LIN. ERR. (dB)	0.9																LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1963																Measured Value (mV)
	SLOPE (mV/dB)	24.6																ERROR (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1957																Measured Value (mV)
	SLOPE (mV/dB)	24.5																ERROR (mV)
	LIN. ERR. (dB)	0.5																LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1965																Measured Value (mV)
	SLOPE (mV/dB)	24.6																ERROR (mV)
	LIN. ERR. (dB)	0.8																LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1960																Measured Value (mV)
	SLOPE (mV/dB)	25.0																ERROR (mV)
	LIN. ERR. (dB)	1.0																LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1952																Measured Value (mV)
	SLOPE (mV/dB)	25.0																ERROR (mV)
	LIN. ERR. (dB)	0.7																LINEARITY ERROR (dB)
Avg. Slope: 24.7 mV/dB		1	0.8	0.8	0.9	0.8	1.3	1.1	1.1	0.9	1	0.7	0.8	0.9	0.9	1	0.5	Flatness dB: ±1.3 dB





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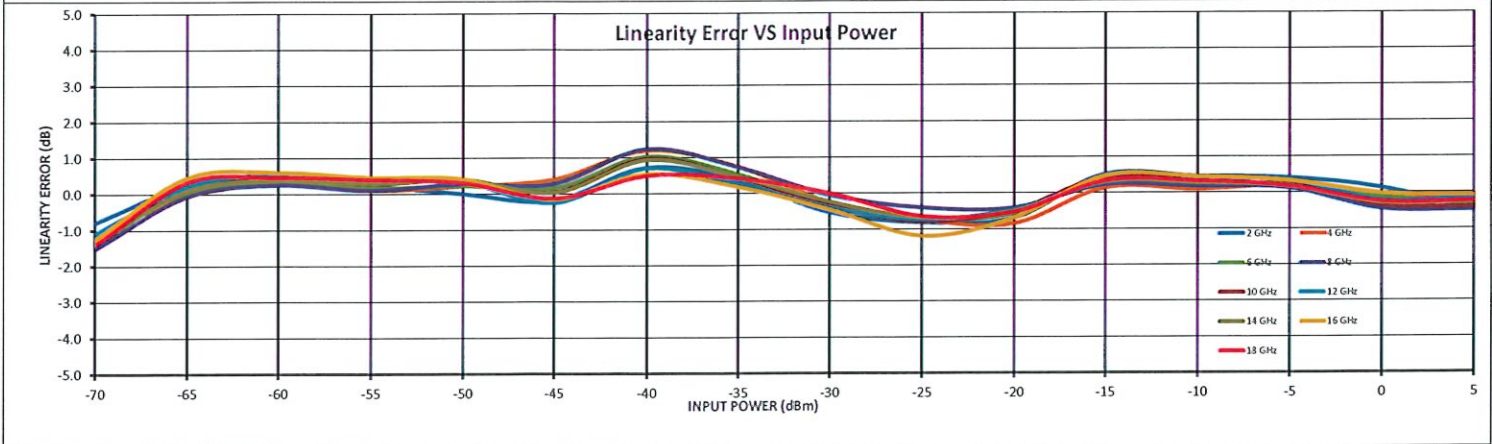
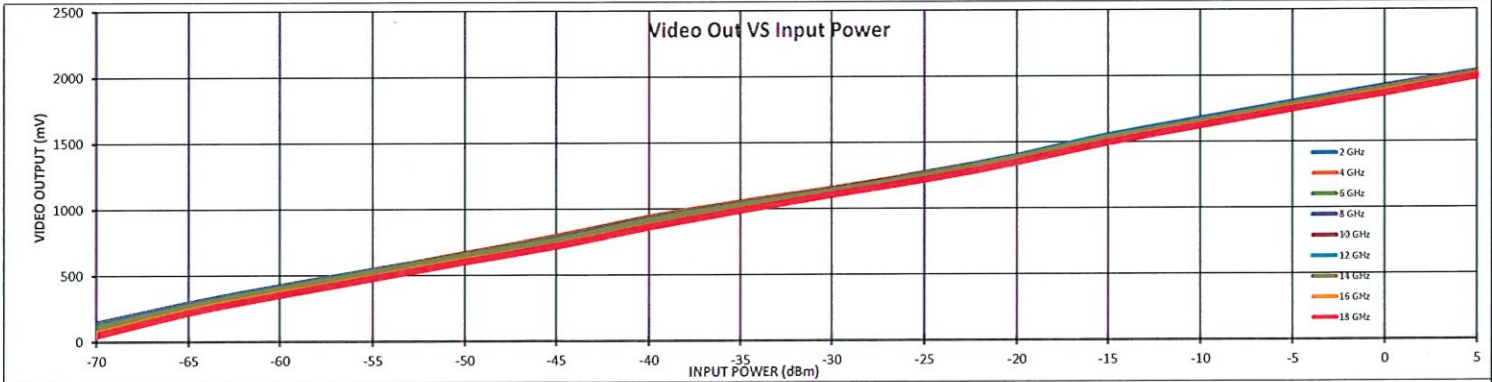
PL42576/2342



Model: SDLVA-6G18G-CD-2-OPT218
Serial No: PL42576/2342
Date: 10/30/2023
Tested By: RCombs
Test Temp: +85°C

Log Transfer Over Frequency +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	1914	25.1	0.8	138	289	420	540	660	780	929	1045	1148	1266	1395	1551	1675	1799	1918	2027	Measured Value (mV)
				-20	6	11	6	0	-5	18	9	-13	-21	-17	13	11	10	3	-12	ERROR (mV)
				-0.79	0.24	0.46	0.24	0.01	-0.19	0.72	0.37	-0.53	-0.82	-0.70	0.51	0.45	0.40	0.13	-0.49	LINEARITY ERROR (dB)
4 GHz	1905	24.9	1.2	192	285	417	537	665	794	938	1051	1151	1263	1385	1535	1658	1785	1904	2024	Measured Value (mV)
				-29	-1	7	2	6	10	30	18	-6	-19	-21	3	2	6	-1	-5	ERROR (mV)
				-1.18	-0.05	0.27	0.10	0.22	0.40	1.20	0.73	-0.26	-0.75	-0.85	0.14	0.09	0.20	-0.04	-0.21	LINEARITY ERROR (dB)
6 GHz	1900	24.9	1.2	125	280	413	533	659	782	928	1040	1143	1258	1387	1534	1655	1781	1897	2016	Measured Value (mV)
				-29	1	9	4	6	4	26	13	-9	-19	-14	9	5	6	-3	-8	ERROR (mV)
				-1.16	0.05	0.36	0.17	0.23	0.16	1.02	0.53	-0.34	-0.75	-0.57	0.34	0.19	0.24	-0.13	-0.33	LINEARITY ERROR (dB)
8 GHz	1890	25.0	1.5	105	266	399	520	649	774	922	1034	1140	1256	1380	1521	1644	1768	1878	2002	Measured Value (mV)
				-38	-2	6	2	7	7	31	18	-1	-10	-10	6	4	3	-11	-12	ERROR (mV)
				-1.52	-0.06	0.25	0.10	0.29	0.28	1.24	0.72	-0.05	-0.41	-0.41	0.23	0.17	0.12	-0.46	-0.49	LINEARITY ERROR (dB)
10 GHz	1888	25.1	1.4	99	262	395	517	645	761	910	1022	1127	1242	1375	1523	1648	1770	1879	2003	Measured Value (mV)
				-35	3	10	7	10	1	24	11	-9	-20	-12	11	10	8	-9	-10	ERROR (mV)
				-1.39	0.13	0.41	0.28	0.39	0.04	0.96	0.44	-0.35	-0.80	-0.48	0.44	0.40	0.31	-0.36	-0.41	LINEARITY ERROR (dB)
12 GHz	1882	24.8	1.1	117	274	406	525	649	758	906	1019	1127	1243	1374	1517	1642	1766	1876	2002	Measured Value (mV)
				-27	5	14	8	8	-6	17	6	-10	-19	-12	7	9	8	-6	-4	ERROR (mV)
				-1.10	0.21	0.55	0.33	0.33	-0.26	0.70	0.25	-0.40	-0.75	-0.47	0.30	0.35	0.33	-0.24	-0.14	LINEARITY ERROR (dB)
14 GHz	1890	25.1	1.4	100	281	394	517	645	762	910	1023	1131	1246	1375	1521	1646	1769	1883	2009	Measured Value (mV)
				-34	2	10	7	10	1	23	11	-5	-17	-13	8	7	4	-7	-7	ERROR (mV)
				-1.35	0.09	0.39	0.29	0.40	0.03	0.93	0.45	-0.24	-0.68	-0.51	0.31	0.27	0.17	-0.29	-0.26	LINEARITY ERROR (dB)
16 GHz	1879	25.4	1.3	68	239	369	493	619	731	876	994	1105	1213	1353	1510	1636	1760	1878	2004	Measured Value (mV)
				-32	12	15	12	11	-4	14	4	-11	-30	-18	12	11	8	-1	-2	ERROR (mV)
				-1.27	0.46	0.60	0.46	0.42	-0.15	0.54	0.17	-0.45	-1.20	-0.70	0.47	0.44	0.33	-0.03	-0.08	LINEARITY ERROR (dB)
18 GHz	1871	25.5	1.4	48	220	351	477	602	719	862	988	1105	1216	1347	1497	1624	1748	1864	1992	Measured Value (mV)
				-36	0	12	10	3	-1	13	10	0	-17	-13	9	8	4	-7	-8	ERROR (mV)
				-1.40	0.33	0.46	0.39	0.31	-0.13	0.49	0.41	0.00	-0.66	-0.53	0.33	0.31	0.17	-0.26	-0.24	LINEARITY ERROR (dB)
Avg. Slope: 25.1 mV/dB				1.8	1.4	1.4	1.3	1.3	1.5	1.5	1.3	0.9	1.1	1	1.1	1	1	1.1	0.7	Flatness dB: ±1.8 dB





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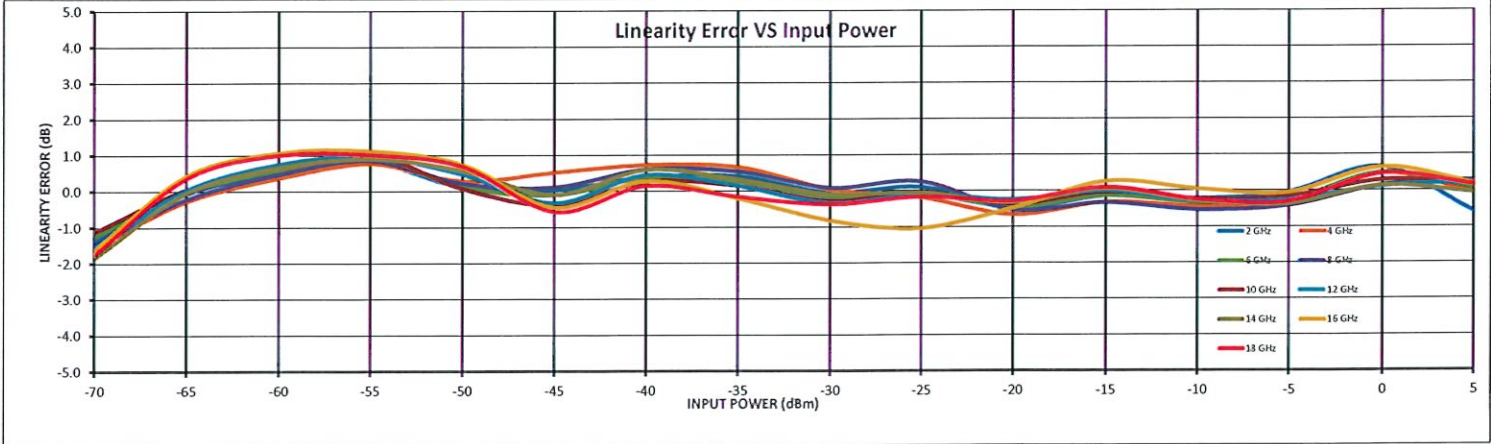
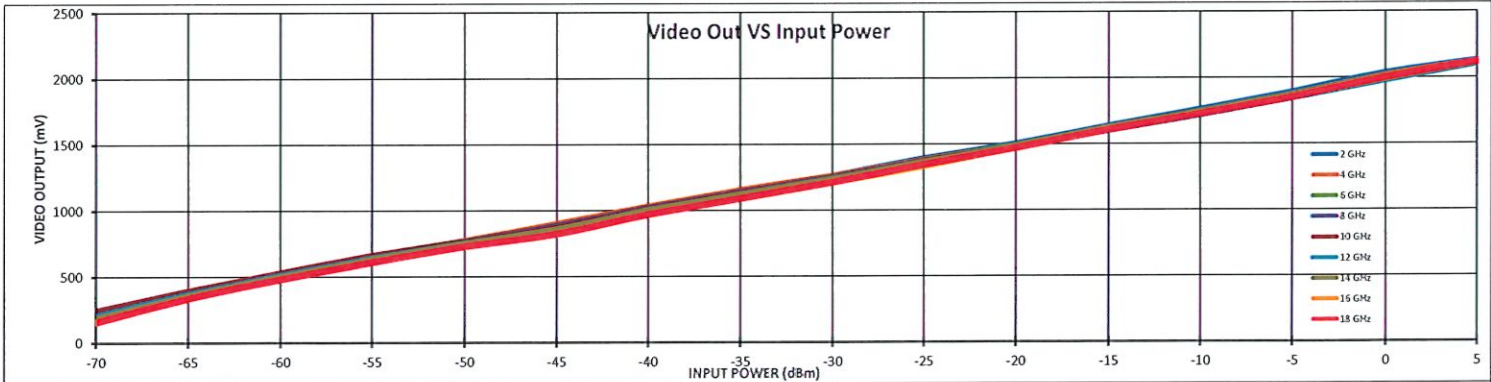
Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL42576/2342
 Date: 10/30/2023
 Tested By: RCombs
 Test Temp: -40°C

Frequency	INTERCEPT (mV)	2019	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2019	222	382	522	656	764	888	1022	1149	1263	1393	1504	1638	1762	1892	2035	2130	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-38	-1	13	21	3	1	10	10	-1	2	-12	-4	-6	-1	16	-15	ERROR (mV)
	LIN. ERR. (dB)	1.4	-1.41	-0.06	0.51	0.82	0.12	0.03	0.39	0.41	-0.05	0.10	-0.48	-0.15	-0.23	-0.05	0.64	-0.59	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2004	235	390	530	663	775	904	1033	1155	1263	1381	1493	1625	1745	1873	2015	2125	Measured Value (mV)
	SLOPE (mV/dB)	24.7	-38	-7	9	19	7	13	18	16	1	-5	-17	-8	-11	-7	12	-2	ERROR (mV)
	LIN. ERR. (dB)	1.5	-1.55	-0.27	0.37	0.77	0.28	0.52	0.72	0.66	0.04	-0.19	-0.67	-0.32	-0.44	-0.30	0.47	-0.07	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1997	240	394	532	664	767	885	1020	1141	1253	1378	1492	1623	1742	1867	2008	2121	Measured Value (mV)
	SLOPE (mV/dB)	24.7	-31	0	15	23	3	-2	9	7	-4	-2	-11	-4	-5	-6	12	1	ERROR (mV)
	LIN. ERR. (dB)	1.3	-1.27	-0.01	0.60	0.93	0.12	-0.10	0.37	0.28	-0.18	-0.08	-0.46	-0.14	-0.33	-0.26	0.48	0.06	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1980	239	392	530	661	767	887	1020	1141	1252	1377	1480	1607	1724	1848	1984	2109	Measured Value (mV)
	SLOPE (mV/dB)	24.4	-36	-5	11	21	5	3	15	13	2	6	-13	-3	-13	-10	3	7	ERROR (mV)
	LIN. ERR. (dB)	1.5	-1.49	-0.22	0.47	0.86	0.22	0.11	0.60	0.54	0.09	0.25	-0.54	-0.33	-0.54	-0.42	0.14	0.27	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1983	246	397	534	665	763	875	1012	1132	1243	1371	1485	1615	1733	1857	1990	2109	Measured Value (mV)
	SLOPE (mV/dB)	24.4	-28	1	16	25	2	-9	6	4	-7	-1	-9	-1	-6	-4	7	4	ERROR (mV)
	LIN. ERR. (dB)	1.1	-1.13	0.05	0.66	1.03	0.07	-0.38	0.26	0.14	-0.29	-0.04	-0.37	-0.04	-0.24	-0.17	0.28	0.17	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1977	201	364	506	636	748	852	995	1112	1224	1354	1475	1605	1722	1847	1980	2107	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-39	1	19	24	12	-8	11	4	-8	-2	-6	0	-7	-6	3	5	ERROR (mV)
	LIN. ERR. (dB)	1.6	-1.57	0.04	0.76	0.97	0.47	-0.33	0.45	0.14	-0.34	-0.10	-0.25	-0.01	-0.29	-0.26	0.11	0.21	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1989	183	354	497	629	746	855	998	1117	1232	1359	1478	1613	1730	1854	1992	2113	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-47	-1	16	23	14	-3	15	8	-2	-1	-8	1	-7	-9	3	-2	ERROR (mV)
	LIN. ERR. (dB)	1.9	-1.86	-0.05	0.65	0.90	0.57	-0.10	0.59	0.32	-0.09	-0.06	-0.33	0.05	-0.28	-0.38	0.13	-0.07	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1988	160	341	485	613	731	829	975	1090	1201	1323	1465	1612	1734	1859	2004	2120	Measured Value (mV)
	SLOPE (mV/dB)	25.5	-42	11	27	28	19	-11	7	-5	-21	-27	-12	6	1	-1	16	5	ERROR (mV)
	LIN. ERR. (dB)	1.7	-1.65	0.43	1.06	1.12	0.74	-0.45	0.28	-0.21	-0.83	-1.04	-0.49	0.25	0.04	-0.06	0.63	0.18	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1987	155	337	481	609	728	824	959	1089	1211	1344	1469	1606	1725	1851	1998	2118	Measured Value (mV)
	SLOPE (mV/dB)	25.5	-45	9	25	26	17	-15	4	-1	-10	-1	-7	2	-6	-3	12	4	ERROR (mV)
	LIN. ERR. (dB)	1.765	-1.76	0.37	1.00	1.01	0.68	-0.57	0.14	-0.17	-0.38	-0.17	-0.29	0.09	-0.25	-0.31	0.45	0.15	LINEARITY ERROR (dB)

Avg. Slope: 24.9 mV/dB 1.8 1.2 1.1 1.1 0.9 1.6 1.3 1.3 1.2 1.4 0.8 0.7 0.8 0.9 1.1 0.5 Flatness dB: ±1.8 dB

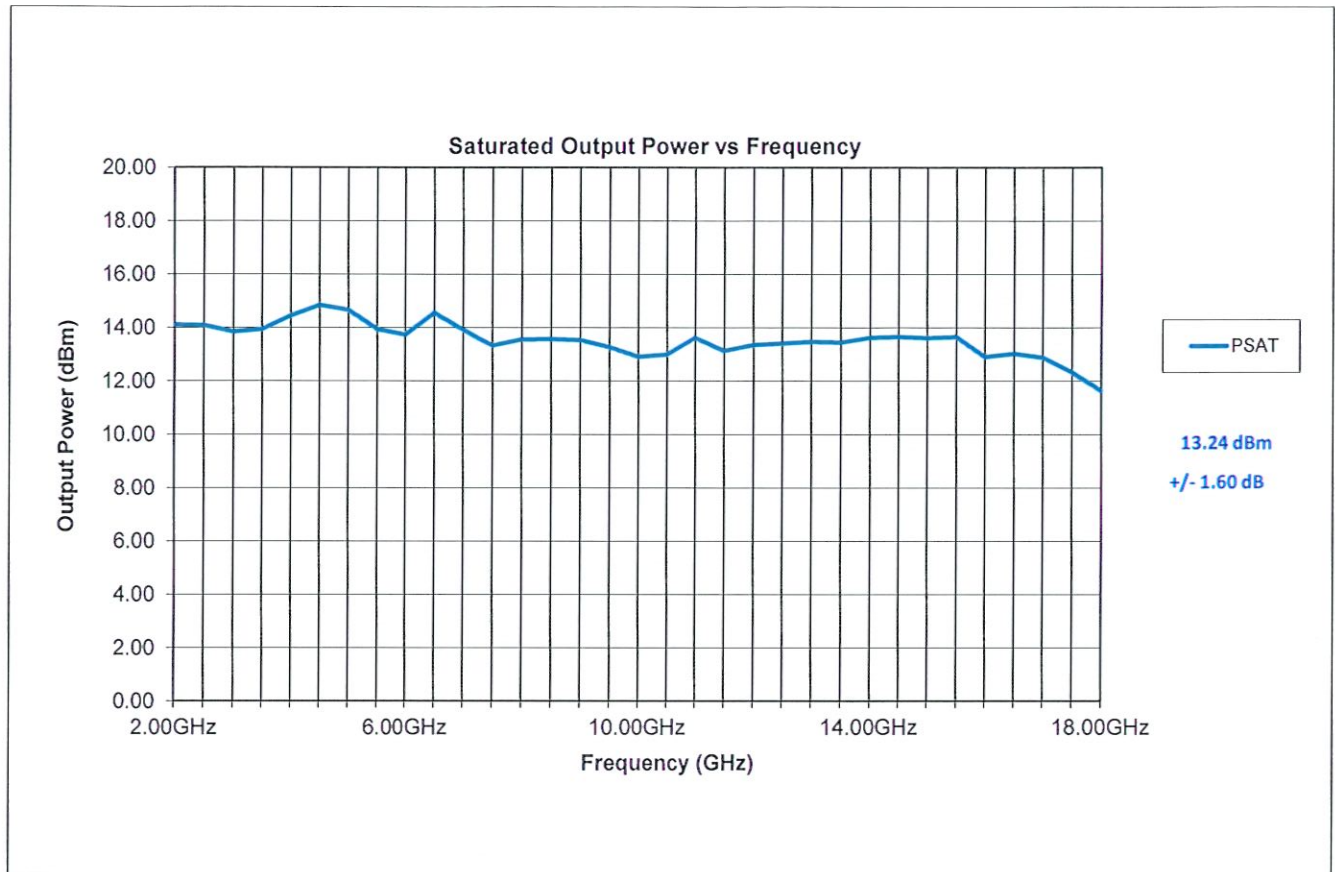




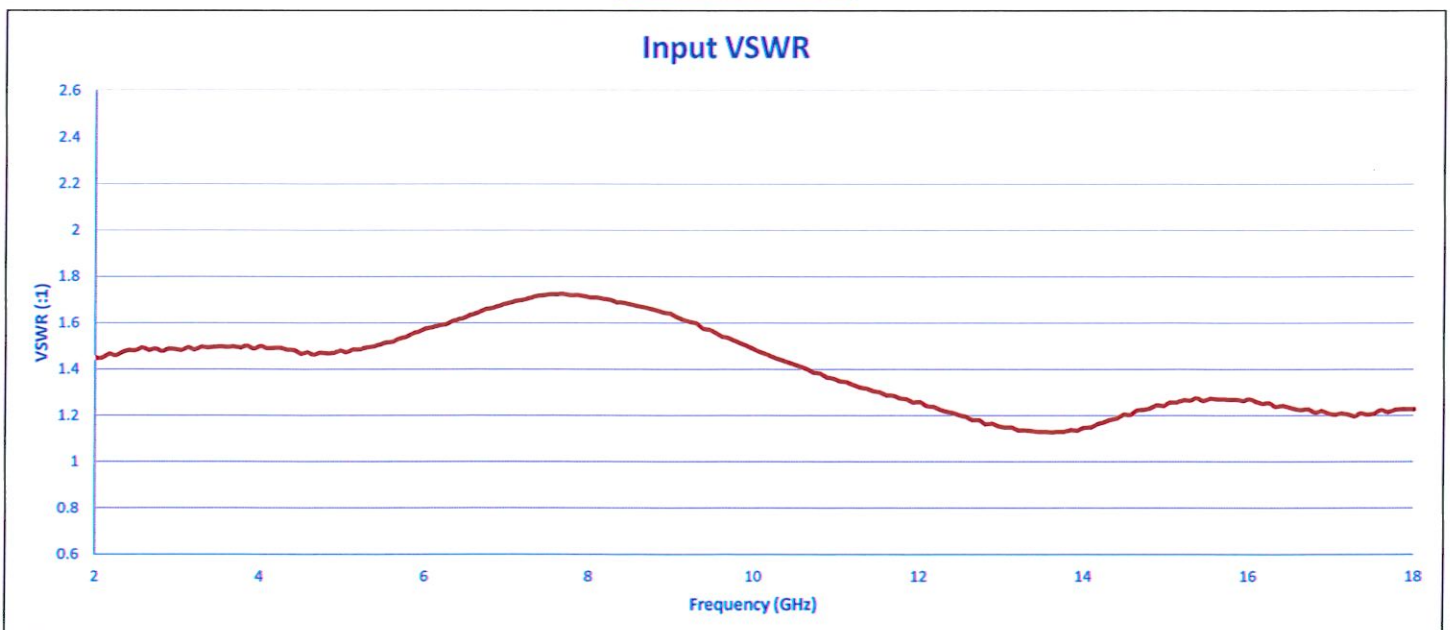
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PL42576/2342

PSAT



INPUT VSWR

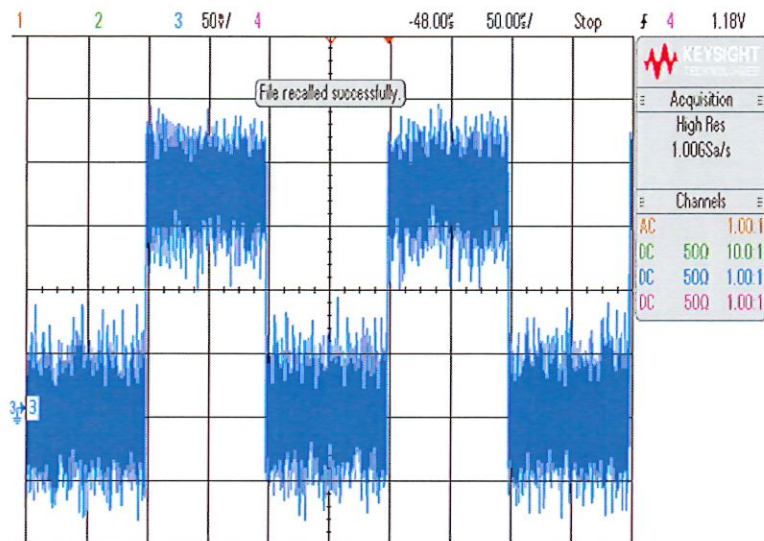




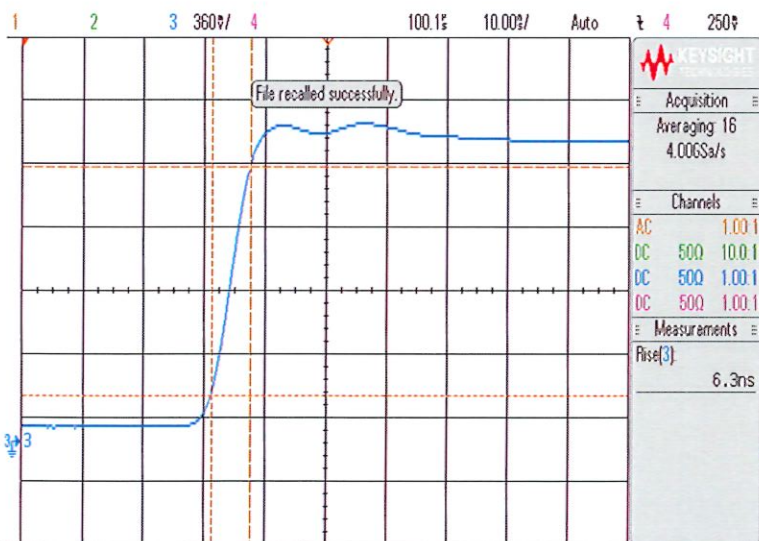
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PL42576/2342

TSS



Rise Time



Fall Time

