



**SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF**

PL46211/2421

Customer: PL46211 Tested By: DA
SO No: 27631110 Temperature: +25°C, -54°C, +95°C
Model No: DLVA-8G10G-75-50-SFF Date: 05/24/24
Serial No: PL46211/2421 Drawing No: 27631110 Rev: A3

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC PMI QA3
1	Frequency Range	8 GHz – 10 GHz	8 GHz to 10 GHz	
2	Flatness	± 1.2 dB	±1.1dB (See Plots)	
3	TSS	-78dBm	-79dBm	
4	Log Dynamic Range	-75 to 0dBm	-75 TO 0dBm (See Plots)	
5	Log Slope	50mV/dB ± 4mV/dB	50mV/dB±1.25mV/dB (See Plots)	
6	Log Linearity	± 1.8 dB Max.	±1.52dB (See Plots)	
7	DC Offset	50mV ± 50mV	50mV ± 49mV	
8	Rise Time	30 ns Max.	18.8ns	
9	Fall Time	150ns	<100ns	
10	Recovery Time	500 ns for 10.0 us PW	100ns	
11	DC Supply	+15VDC @ 350 mA -15VDC @ 100 mA	185mA 64mA	

QA/QC Approval: K. Lutz Date: 5-28-24

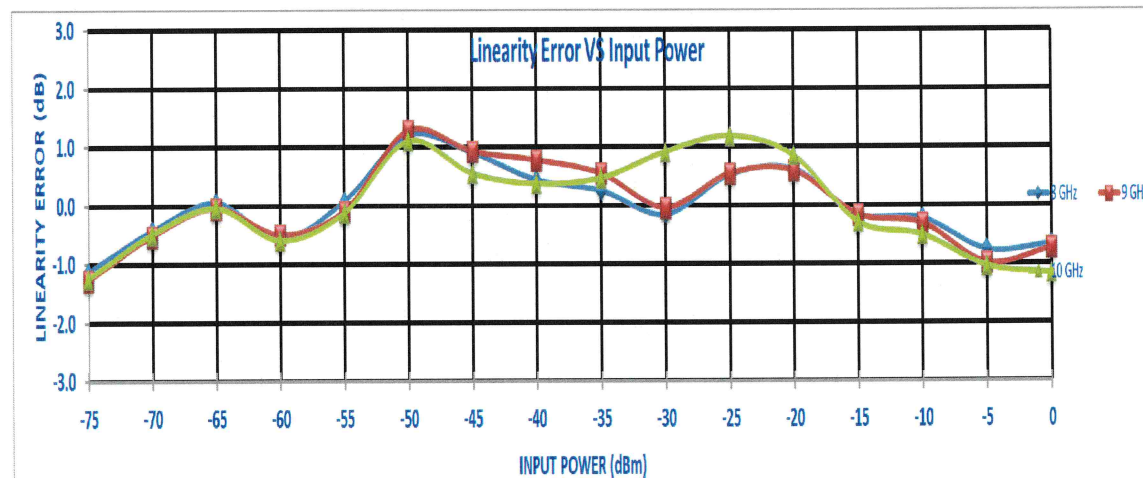
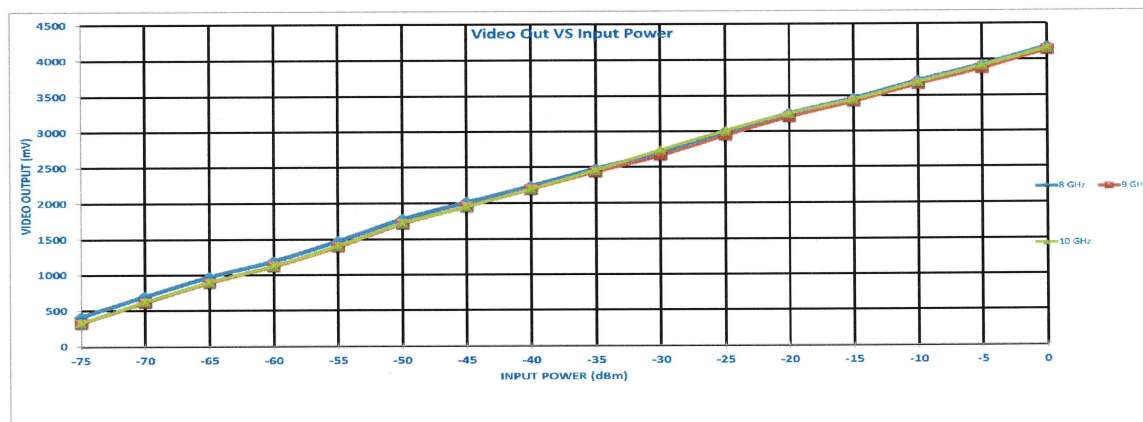


SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL46211/2421

LOG TRANSFER @ +25C

LOG TRANSFER WITH FREQUENCY MODEL: DLVA-8G10G-75-50-SFF TESTED BY: DA DATE: 05/23/2024 SERIAL NO: PL46211 Test Temp: +25C																		 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway, Suite 1 El Dorado Hills, CA 95762 Phone: 916-542-1401 Fax: 301-662-1731 Email: sales@pmi-rf.com www.pmi-rf.com																			
Frequency																		Output Vos= 0.078																			
																		-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)			
8 GHz	INTERCEPT (m) 4209																	413	697	970	1189	1470	1775	2010	2236	2476	2705	2988	3242	3453	3699	3922	4176	Measured Value (mV)			
	SLOPE (mV/dB) 49.9																	-56	-21	3	-28	4	60	45	22	13	-8	26	30	-8	-11	-38	-33	Error (mV)			
																		-1.12	-0.42	0.05	-0.56	0.08	1.19	0.91	0.44	0.25	-0.16	0.52	0.61	-0.16	-0.23	-0.75	-0.66	LINEARITY ERROR (dB)			
																		X																			
9 GHz	INTERCEPT (m) 4175																	320	611	888	1118	1391	1713	1948	2193	2434	2657	2939	3194	3409	3654	3873	4138	Measured Value (mV)			
	SLOPE (mV/dB) 50.5																	-65	-26	-2	-25	-5	65	47	39	28	-2	27	30	-8	-16	-50	-37	Error (mV)			
																		-1.28	-0.52	-0.04	-0.49	-0.09	1.28	0.93	0.78	0.55	-0.04	0.54	0.58	-0.16	-0.31	-0.98	-0.74	LINEARITY ERROR (dB)			
																		X																			
10 GHz	INTERCEPT (m) 4222																	331	625	903	1130	1409	1727	1954	2200	2460	2738	3007	3245	3442	3686	3914	4163	Measured Value (mV)			
	SLOPE (mV/dB) 51																	-64	-25	-2	-30	-6	57	28	19	24	47	61	43	-15	-26	-63	-59	Error (mV)			
																		-1.24	-0.48	-0.04	-0.59	-0.12	1.11	0.56	0.38	0.47	0.92	1.19	0.85	-0.29	-0.51	-1.04	-1.16	LINEARITY ERROR (dB)			
																		X																			
Flatness +/-dB																		0.9	0.9	0.8	0.7	0.8	0.6	0.6	0.4	0.4	0.8	0.7	0.5	0.4	0.4	0.5	0.4				



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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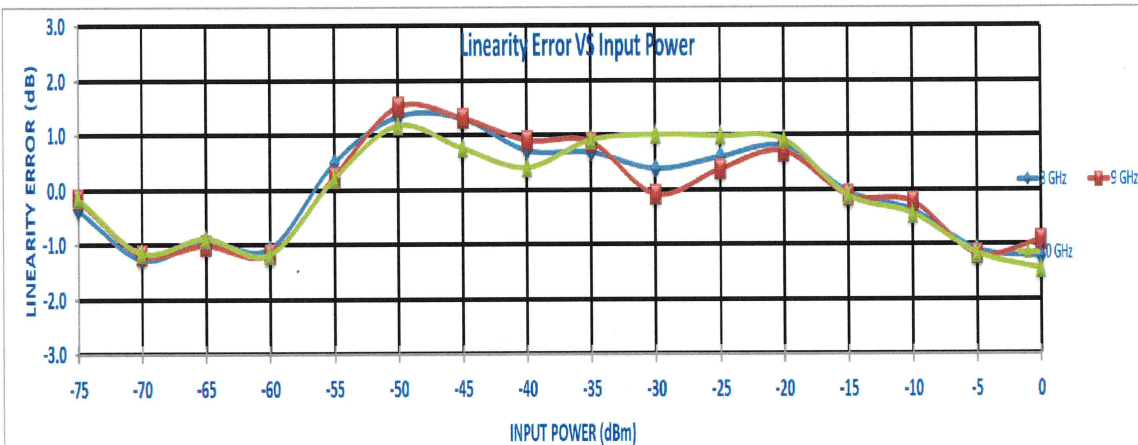
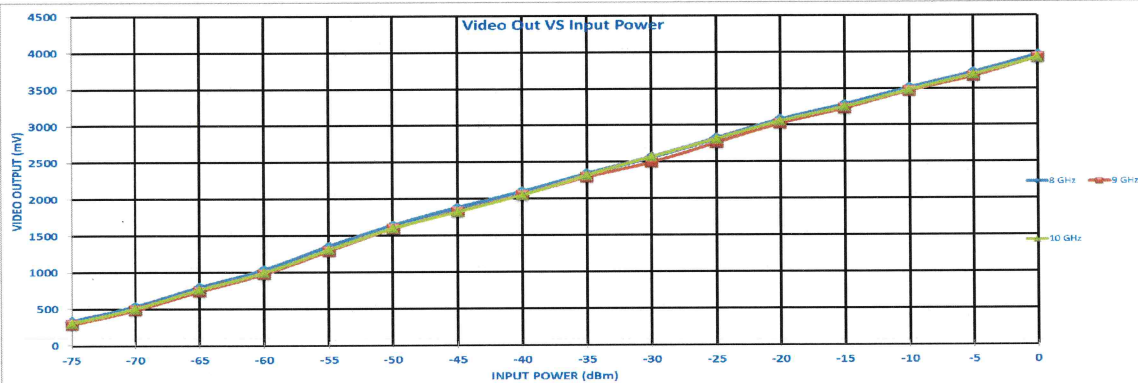


SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL46211/2421

LOG TRANSFER @ -54C

LOG TRANSFER WITH FREQUENCY MODEL: DLVA-8G10G-75-50-SFF TESTED BY: DA DATE: 05/23/2024 SERIAL NO: PL46211 Test Temp: -54C		Output Vos= 0.088																RF Input Power (dBm)	
Frequency		-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		
8 GHz	INTERCEPT (m)	4013																Measured Value (mV)	
	SLOPE (mV/dB)	48.9																Error (mV)	
		326	526	787	1025	1346	1632	1875	2091	2334	2564	2819	3073	3277	3505	3715	3953	LINEARITY ERROR (dB)	
		-17	-62	-45	-52	24	66	64	35	34	19	29	39	-2	-19	-53	-60		
		-0.35	-1.26	-0.93	-1.06	0.50	1.34	1.31	0.72	0.69	0.39	0.60	0.79	-0.04	-0.38	-1.09	-1.22		
9 GHz	INTERCEPT (m)	3964																Measured Value (mV)	
	SLOPE (mV/dB)	49																Error (mV)	
		285	480	733	970	1284	1591	1826	2051	2294	2492	2759	3020	3225	3464	3662	3919	LINEARITY ERROR (dB)	
		-8	-57	-49	-57	12	74	65	45	43	-4	19	35	-5	-11	-57	-45		
		-0.16	-1.17	-1.00	-1.16	0.25	1.52	1.32	0.92	0.88	-0.07	0.38	0.71	-0.10	-0.22	-1.17	-0.92		
10 GHz	INTERCEPT (m)	3993																Measured Value (mV)	
	SLOPE (mV/dB)	49.1																Error (mV)	
		307	503	761	992	1305	1598	1823	2051	2321	2571	2815	3057	3252	3481	3691	3922	LINEARITY ERROR (dB)	
		-7	-56	-43	-57	10	58	38	21	45	50	49	45	-5	-21	-56	-71		
		-0.13	-1.14	-0.88	-1.17	0.21	1.18	0.77	0.42	0.92	1.02	0.99	0.93	-0.10	-0.43	-1.15	-1.44		
Flatness +/-dB		0.4	0.5	0.6	0.6	0.6	0.4	0.5	0.4	0.4	0.8	0.6	0.5	0.5	0.4	0.5	0.3		



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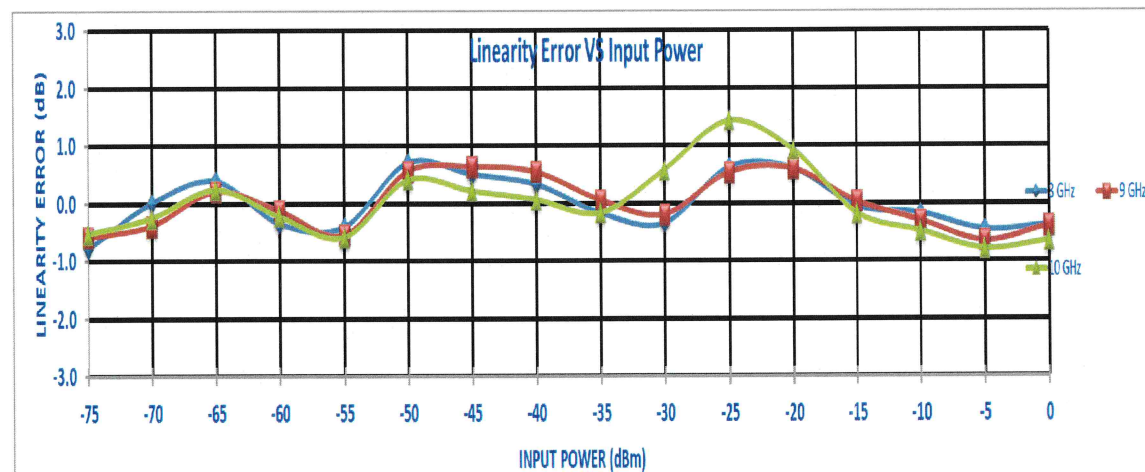
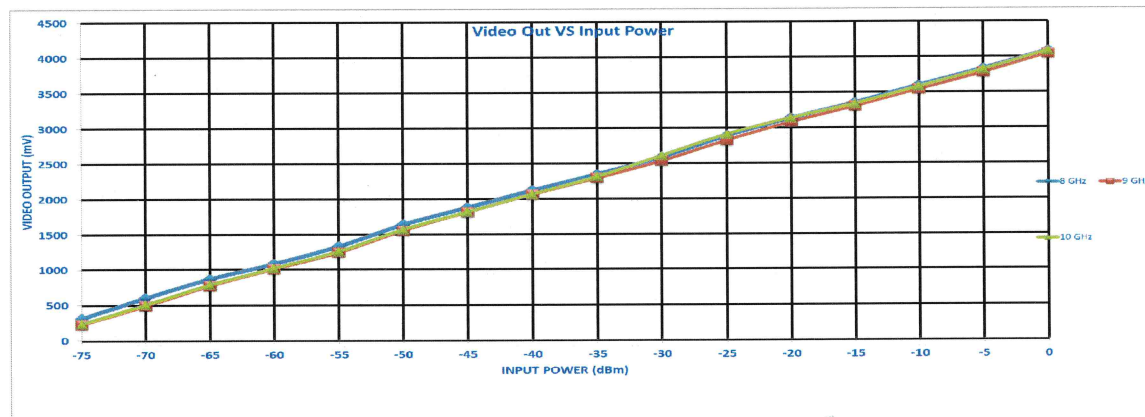


SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL46211/2421

LOG TRANSFER @ +95C

LOG TRANSFER WITH FREQUENCY MODEL: DLVA-8G10G-75-50-SFF TESTED BY: DA DATE: 05/23/2024 SERIAL NO: PL46211 Test Temp: +95C		Output Vos= 0.059		 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway, Suite 1 El Dorado Hills, CA 95762 Phone: 916-542-1401 Fax: 301-662-1731 Email: sales@pmi-rf.com www.pmi-rf.com															
Frequency		-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
8 GHz	INTERCEPT (m)	4103	313	603	872	1085	1332	1638	1878	2119	2344	2585	2884	3133	3350	3594	3830	4084	Measured Value (mV)
	SLOPE (mV/dB)	50	-39	0	19	-18	-21	35	25	16	-9	-18	31	30	-3	-9	-23	-19	Error (mV)
			-0.79	0.01	0.39	-0.35	-0.41	0.71	0.51	0.33	-0.18	-0.36	0.62	0.60	-0.06	-0.18	-0.46	-0.38	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m)	4066	229	493	777	1014	1246	1556	1814	2063	2292	2533	2824	3081	3306	3543	3779	4046	Measured Value (mV)
	SLOPE (mV/dB)	50.8	-30	-19	11	-6	-28	28	32	28	3	-10	27	30	2	-15	-33	-20	Error (mV)
			-0.58	-0.38	0.21	-0.12	-0.55	0.56	0.64	0.54	0.06	-0.20	0.54	0.60	0.03	-0.30	-0.65	-0.39	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m)	4121	241	512	794	1027	1265	1573	1820	2069	2314	2609	2910	3141	3341	3582	3823	4087	Measured Value (mV)
	SLOPE (mV/dB)	51.4	-27	-13	12	-11	-30	21	11	3	-9	29	74	48	-9	-25	-41	-34	Error (mV)
			-0.52	-0.25	0.24	-0.22	-0.59	0.41	0.21	0.06	-0.17	0.57	1.43	0.93	-0.18	-0.48	-0.79	-0.65	LINEARITY ERROR (dB)
Flatness +/-dB			0.8	1.1	0.9	0.7	0.8	0.8	0.6	0.6	0.5	0.7	0.8	0.6	0.4	0.5	0.5	0.4	



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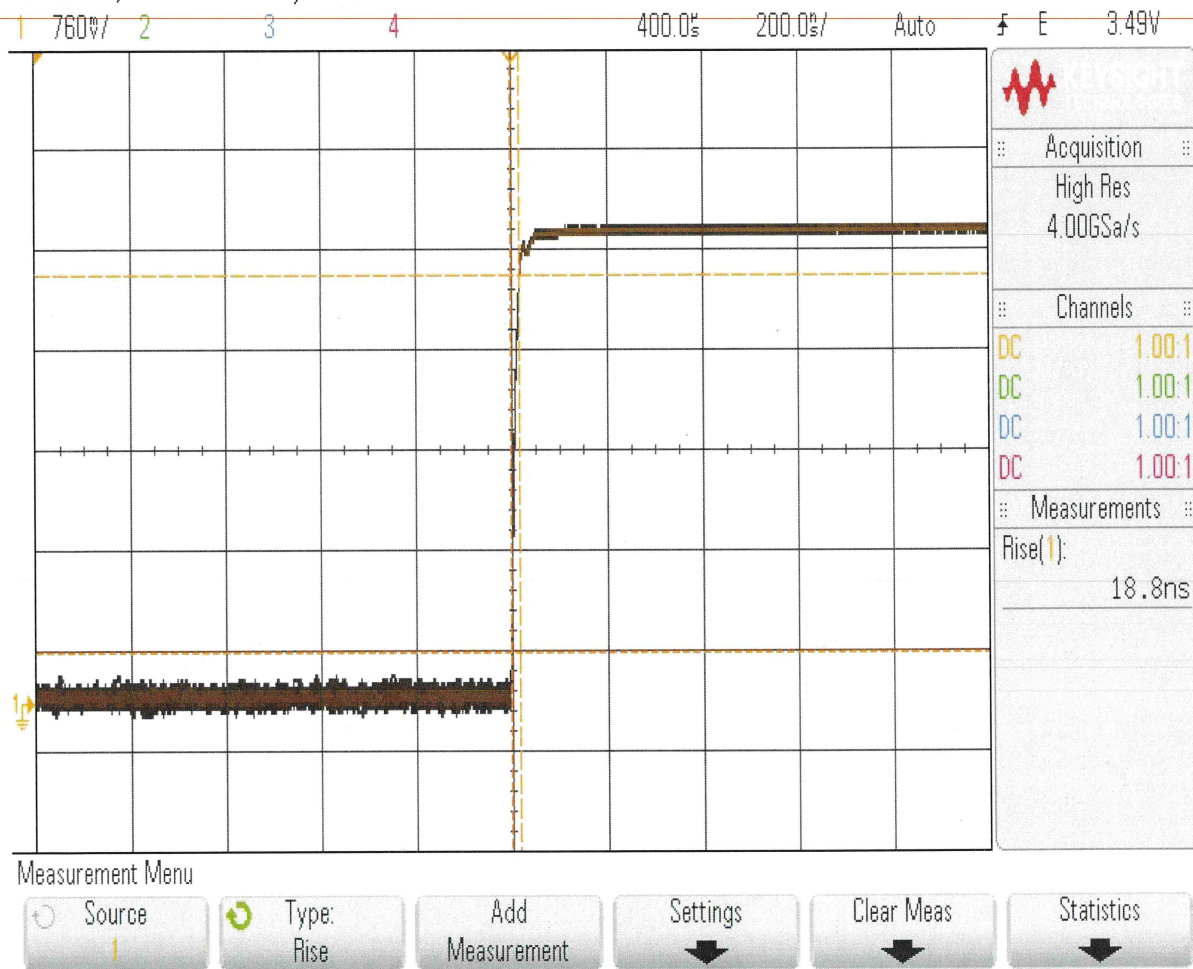


SUMMARY TEST DATA
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PL46211/2421

RISE TIME

DSO-X 3024A, MY54490369: Fri May 24 11:32:38 2024



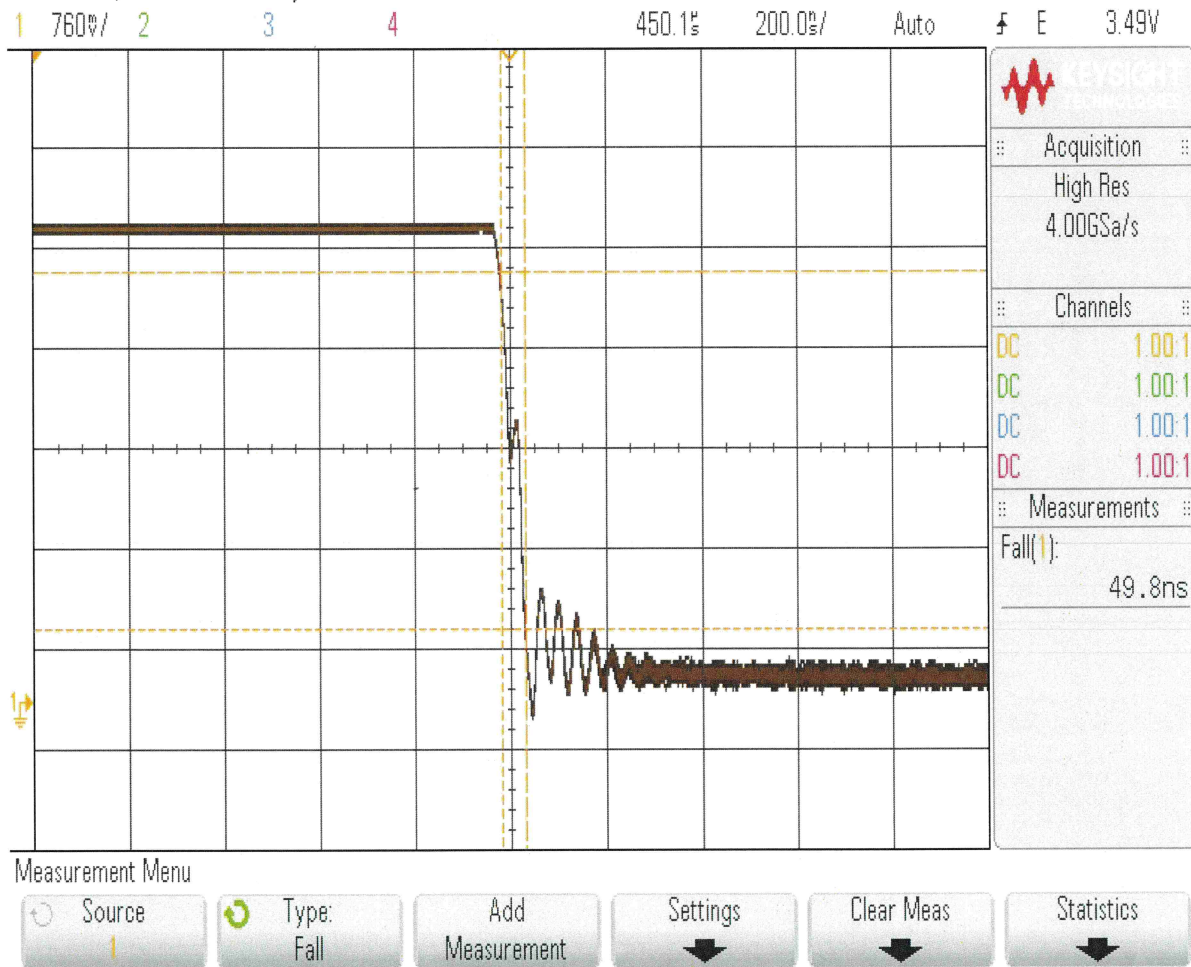


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PL46211/2421

FALL/ RECOVERY TIME

DSO-X 3024A, MY54490369, Fri May 24 11:33:24 2024





**SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF**

PL46211/2421

TSS @ -79dBm

DSO-X 3024A, MY54490369, Fri May 24 11:31:29 2024

