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

PL48073/2438

Customer:		**Tested By:**	DA
SO No:		**Temperature:**	+25°C , -54°C, +95°C
Model No:	DLVA-8G10G-75-50-SFF	**Date:**	09/19/24
Serial No:	PL48073/2438	**Drawing No:**	27631110 **Rev:** A3

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	8 GHz – 10 GHz	**8 GHz to 10 GHz**	PMI QA3
2	Flatness	± 1.2 dB	**±1.2 dB (See Plots)**	
3	TSS	-78dBm	**-80 dBm**	
4	Log Dynamic Range	-75 to 0dBm	**-75 TO 0dBm (See Plots)**	
5	Log Slope	50mV/dB ± 4mV/dB	**50mV/dB±3.2 mV/dB (See Plots)**	
6	Log Linearity	± 1.8 dB Max.	**±1.36 dB (See Plots)**	
7	DC Offset	50mV ± 50mV	**50mV ± 49mV**	
8	Rise Time	30 ns Max.	**19.3ns**	
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	**166mA** **64mA**	

QA/QC Approval: K. Khuong **Date:** 9-23-24

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

PL48073/2438

LOG TRANSFER @ +25C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-8G10G-75-50-SFF
TESTED BY: DA
DATE: 09/17/2024
SERIAL NO: PL48073
Test Temp: +25C

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway, Suite 1
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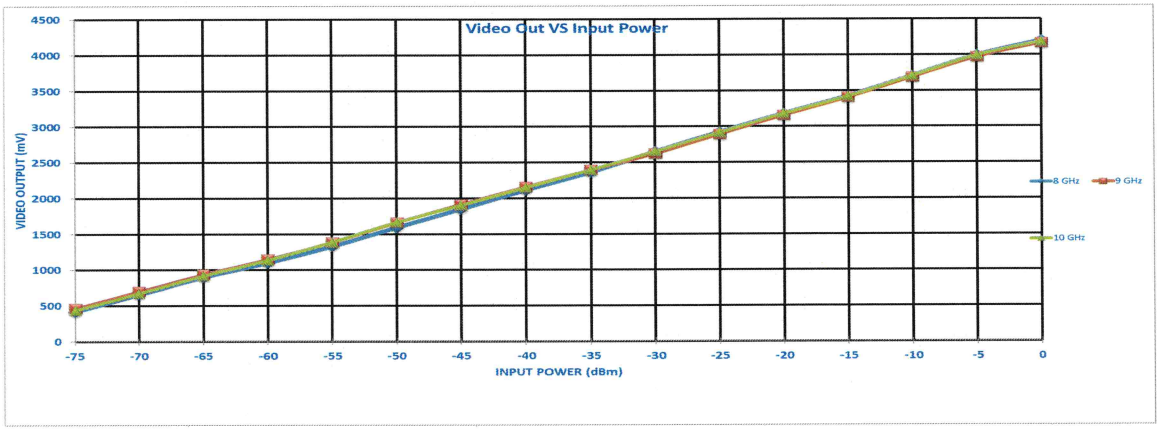
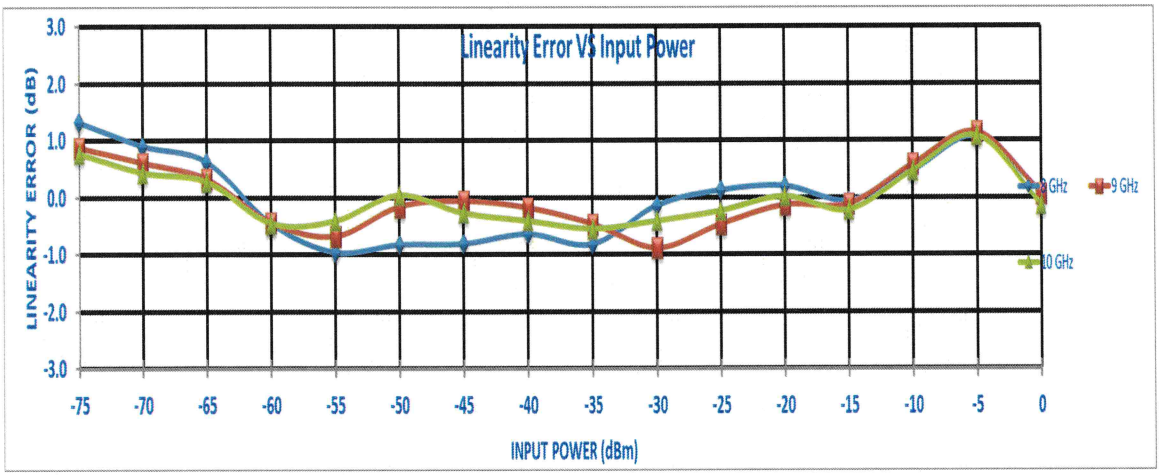
Output Vos= 0.081

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	4194	418	653	895	1096	1326	1589	1846	2111	2358	2649	2919	3179	3422	3705	3992	4198	Measured Value (mV)
	SLOPE (mV/dB	51.2	67	46	32	-23	-49	-43	-42	-33	-42	-8	6	10	-3	24	54	4	Error (mV)
			1.31	0.90	0.62	-0.45	-0.97	-0.83	-0.82	-0.65	-0.83	-0.15	0.12	0.19	-0.06	0.46	1.06	0.08	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m	4160	467	703	938	1149	1386	1661	1915	2158	2393	2621	2891	3157	3407	3691	3968	4163	Measured Value (mV)
	SLOPE (mV/dB	49.8	44	30	16	-22	-34	-8	-3	-9	-23	-44	-24	-7	-6	29	57	3	Error (mV)
			0.87	0.61	0.33	-0.44	-0.68	-0.16	-0.06	-0.18	-0.47	-0.89	-0.47	-0.13	-0.11	0.59	1.15	0.06	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m	4193	437	673	918	1134	1389	1665	1902	2148	2394	2654	2916	3182	3423	3711	3995	4186	Measured Value (mV)
	SLOPE (mV/dB	50.6	39	22	14	-23	-21	2	-14	-21	-28	-21	-12	1	-11	24	55	-7	Error (mV)
			0.77	0.44	0.28	-0.45	-0.41	0.04	-0.27	-0.41	-0.55	-0.41	-0.24	0.02	-0.22	0.47	1.09	-0.14	LINEARITY ERROR (dB)
	Flatness +/-dB		0.5	0.5	0.4	0.5	0.6	0.8	0.7	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.4	





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ON
DLVA-8G10G-75-50-SFF

PL48073/2438

LOG TRANSFER @ -54C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-8G10G-75-50-SFF
TESTED BY: DA
DATE: 09/16/2024
SERIAL NO: PL48073
Test Temp: -54C

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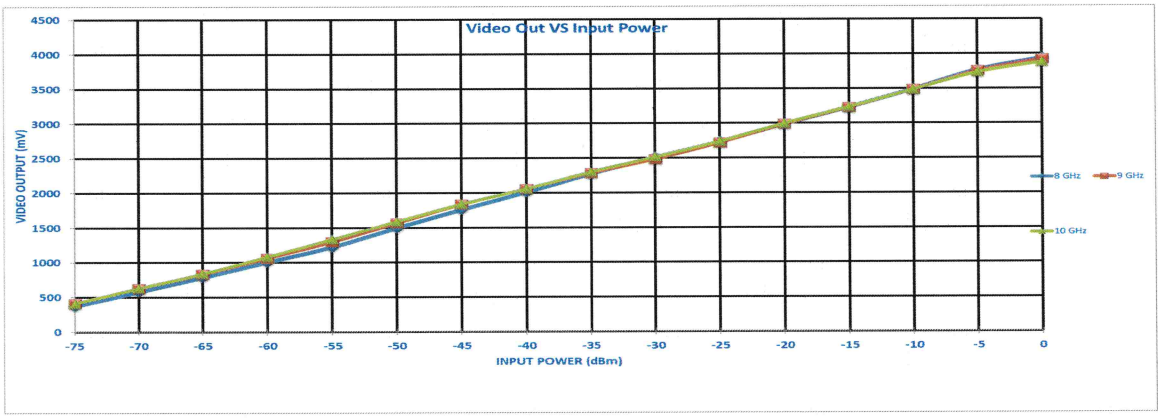
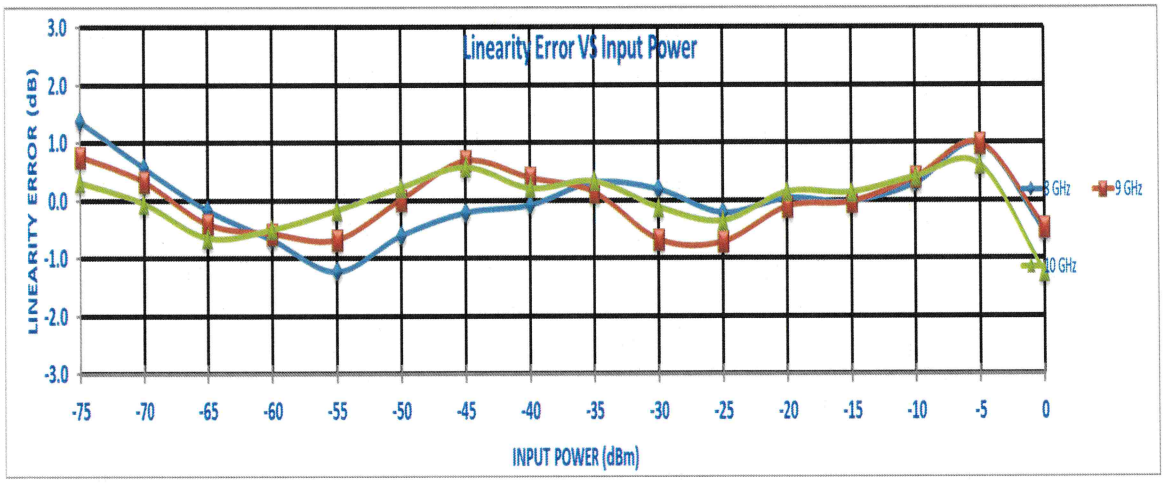
Output Vos= 0.097

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	3963	373	578	786	1005	1222	1496	1759	2009	2272	2510	2734	2990	3231	3490	3767	3937	Measured Value (mV)
	SLOPE (mV/dB	48.8	66	28	-8	-33	-60	-29	-10	-4	15	9	-10	2	-1	14	47	-26	Error (mV)
			1.36	0.57	-0.17	-0.67	-1.22	-0.60	-0.21	-0.08	0.31	0.19	-0.21	0.04	-0.02	0.29	0.97	-0.54	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m	3943	410	627	830	1060	1293	1564	1834	2058	2284	2483	2719	2986	3228	3486	3752	3921	Measured Value (mV)
	SLOPE (mV/dB	47.6	36	15	-20	-28	-33	0	33	19	7	-32	-34	-5	-1	19	47	-22	Error (mV)
			0.76	0.32	-0.41	-0.58	-0.68	0.01	0.68	0.39	0.14	-0.68	-0.72	-0.11	-0.03	0.39	0.98	-0.47	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m	3940	411	630	838	1081	1333	1588	1841	2060	2302	2517	2742	3002	3238	3487	3733	3881	Measured Value (mV)
	SLOPE (mV/dB	47.3	15	-2	-30	-24	-8	11	28	10	16	-5	-16	7	7	20	29	-59	Error (mV)
			0.32	-0.04	-0.64	-0.50	-0.17	0.23	0.59	0.22	0.34	-0.11	-0.35	0.15	0.15	0.42	0.62	-1.24	LINEARITY ERROR (dB)
	Flatness +/-dB		0.4	0.5	0.5	0.8	1.2	1	0.9	0.5	0.3	0.4	0.2	0.2	0.1	0	0.4	0.6	





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PL48073/2438

LOG TRANSFER @ +95C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-8G10G-75-50-SFF
TESTED BY: DA
DATE: 09/16/2024
SERIAL NO: PL48073
Test Temp: +95C

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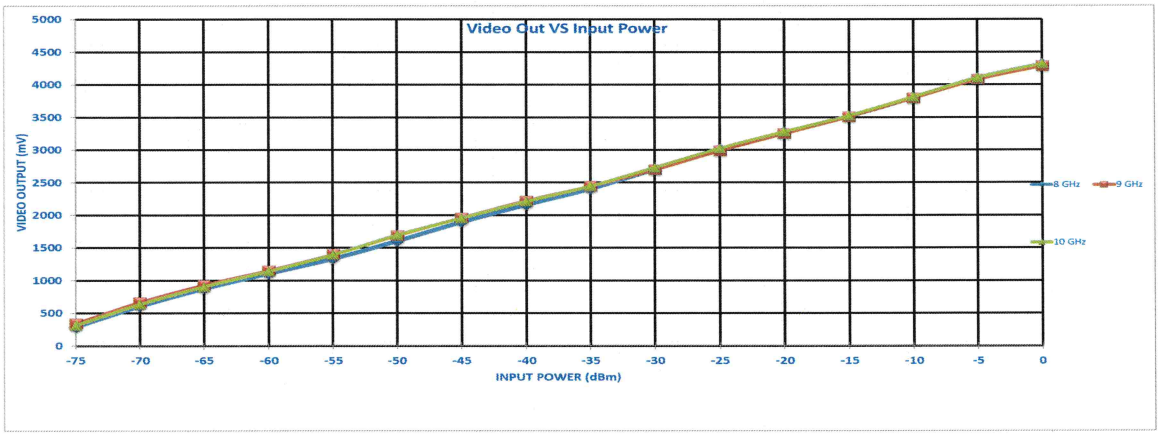
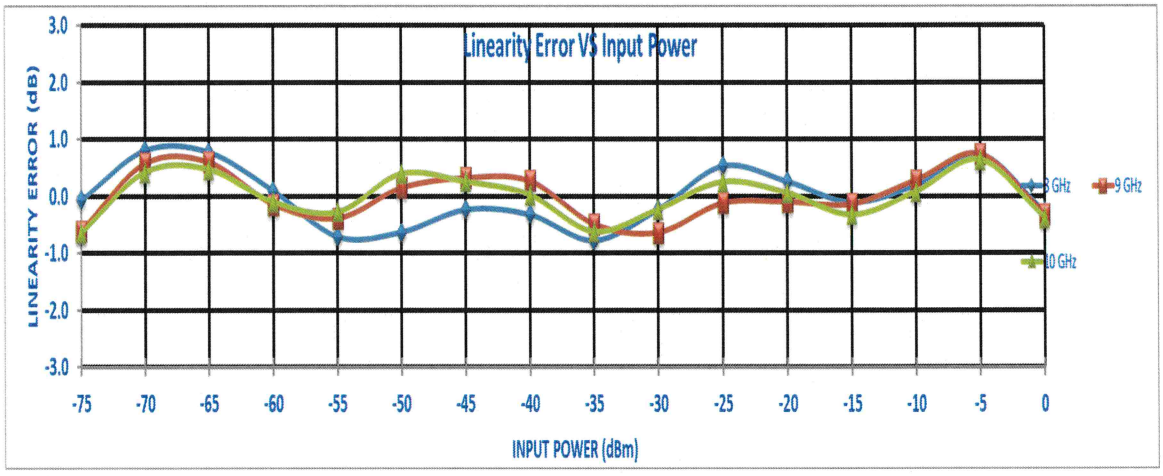
Output Vos= 0.067

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	4325	291	607	874	1106	1331	1604	1894	2158	2402	2700	3010	3264	3513	3798	4096	4310	Measured Value (mV)
	SLOPE (mV/dB	53.7	-4	43	42	5	-39	-34	-13	-18	-42	-13	28	14	-6	10	40	-15	Error (mV)
			-0.07	0.81	0.78	0.10	-0.72	-0.64	-0.24	-0.33	-0.79	-0.24	0.53	0.26	-0.11	0.19	0.74	-0.28	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m	4302	342	666	929	1152	1401	1691	1962	2221	2443	2697	2986	3249	3509	3793	4079	4285	Measured Value (mV)
	SLOPE (mV/dB	52.4	-32	30	31	-7	-20	8	17	14	-26	-34	-6	-5	-7	15	39	-17	Error (mV)
			-0.61	0.58	0.60	-0.14	-0.39	0.15	0.32	0.27	-0.49	-0.64	-0.12	-0.10	-0.14	0.28	0.75	-0.32	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m	4340	311	634	903	1139	1396	1698	1957	2211	2443	2730	3022	3278	3524	3812	4108	4320	Measured Value (mV)
	SLOPE (mV/dB	53.3	-34	22	25	-5	-15	21	14	1	-33	-12	13	3	-17	4	34	-20	Error (mV)
			-0.65	0.42	0.47	-0.10	-0.28	0.39	0.26	0.02	-0.62	-0.23	0.25	0.06	-0.33	0.08	0.64	-0.38	LINEARITY ERROR (dB)
	Flatness +/-dB		0.5	0.6	0.5	0.4	0.7	0.9	0.6	0.6	0.4	0.3	0.3	0.3	0.1	0.2	0.3	0.3	





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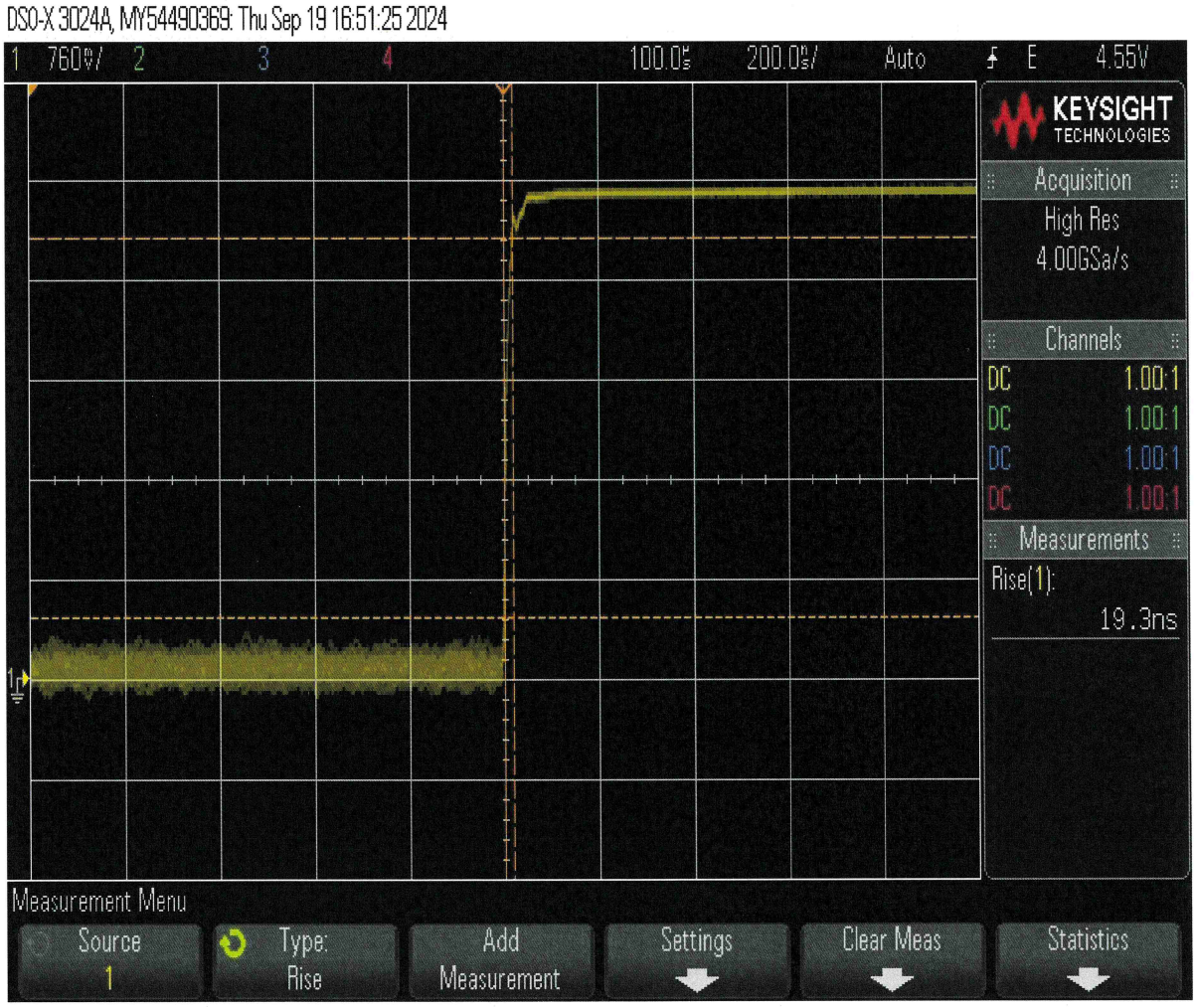
RISE TIME



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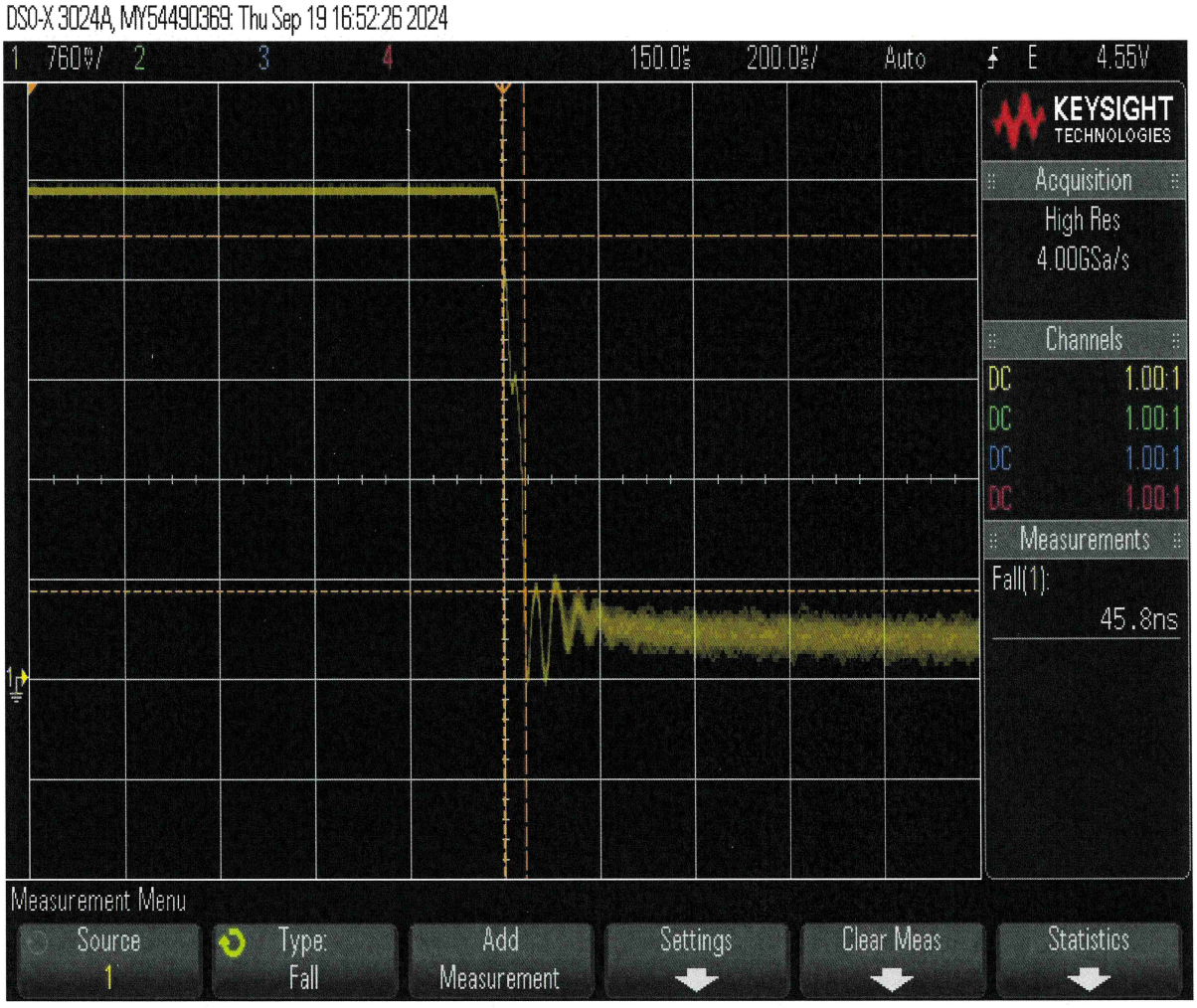
FALL/ RECOVERY TIME



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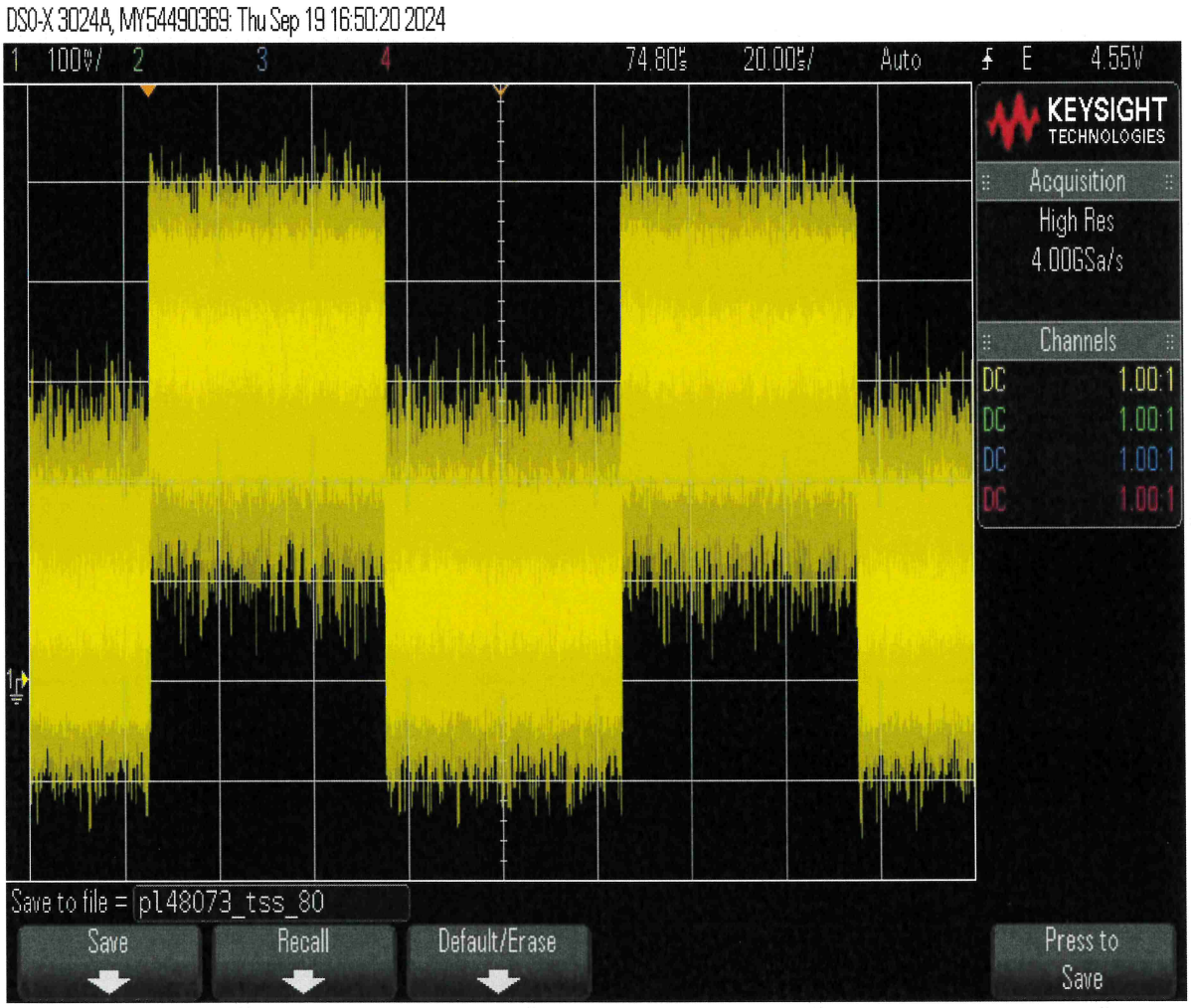
TSS @ -80 dBm



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