Summary Data
For
ERDLVA-8G18G-65-70MV-2

Customer: [redacted]
SO No: [redacted]
Model No: ERDLVA-8G18G-65-70MV-2
Serial No: PL53800/2537

Tested By: Jim Hopson
Temperature: +25°C, +85C, -10C
Date 9/10/2025
Drawing No: 27650100 **Rev:** A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	8 to 18 GHz	**8 to 18 GHz**	PMI QA3
2	Input VSWR:	2.3:1 Max	**1.87:1**	
3	Input Power Max:	(1) 1 W CW (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%	**W CW Pass** **W Peak Pass**	
4	Switch Isolation:	60 dB Min (All Ports)	**>60dB**	
5	Switching Speed:	100 ns Max	**<100ns**	

7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731
Email: sales@quanticpmi.com

Quantic PMI
PLANAR MONOLITHICS

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For
ERDLVA-8G18G-65-70MV-2

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
6	TSS:	-71 dBm	**-73dBm**	PMI QA3
7	Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
8	Log Slope:	70 mV/dB ±3 mV/dB	**69.84/70.45mV/dB**	
9	Log Linearity:	±1.0 dB Max	**+.60/-.56dB**	
10	Log Accuracy @ 25°C:	±1.75 dB Max	**1.01/-1.05dB**	
11	Absolute Log Accuracy:	±2.0 dB Max	**+1.60/-1.55dB**	
12	DC Offset:	±70 mV	**+36mV**	
13	Rise Time:	28 ns Max (10% to 90% @ -50 to 0 dBm, 10% to 90% Full Dynamic Range Guaranteed)	**25.5ns @ 0dbm-See Plots**	
14	Fall Time:	300 ns Max (10% to 90% @ -50 to 0 dBm, 10% to 90% Full Dynamic Range Guaranteed)	**98.8ns @ 0dbm-See Plots**	
15	Settling Time:	50 ns Max (From 10% to within 70 mV of final value @ -40 & -10 dBm)	**<60ns- See Plots**	
16	Recovery Time:	1 us Max (From 90% to within ±1.5 dB of baseline)	**750ns**	
17	Video Frequency Flatness:	±1.75 dB Max @ 25°C	**±1.18 dB Max @ 25°C**	
18	Pulse Width Process Range:	100 ns to 100 us	**100 ns to 100 us**	
19	Video Output Load Impedance:	95 ±1 Ω	**95 ±1 Ω**	

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For
ERDLVA-8G18G-65-70MV-2

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
20	Video Output @ -65 dBm:	320 ± 123 mV Over Frequency	**320/210mV**	PMI QA3
21	Video Output Drive Capability:	Driving 100 ft RG180 into 95 Ω Load	**Pass**	
22	Pulse Density Capability:	10% Duty @ 100 ns PW 70% Duty @ 100 us PW	**10% Duty @ 100ns PW** **70% Duty @ 100us PW**	
23	Noise Level:	25 mV RMS Max	**14.64mV**	
24	Pulse Droop @ -65 dBm:	70 mV Max for PW 100 us	**<70mV**	
25	Propagation Delay:	50 ns Max (50% RF to 10% Video)	**<50ns**	
26	CW Immune Power:	TSS to -40 dBm	**TSS to -40 dBm**	
27	Baseline Shift:	200 mV Max @ -40 dBm CW	**<200mV**	
28	Pulse Amplitude Loss with Pulse @ -30 dBm:	CW @ -50 dBm = No Loss CW @ -40 dBm = 2 dB Max	**-50 dBm = 0dB** **-40 dBm = <1dB**	
29	CW Immue Time @ CW = -40 dBm	4 ms Max	**2.9ms**	
30	CW Recovery Time @ CW = -40 dBm	120 us Max	**<100us**	
31	DC Power:	+15V (±5%) @ 500 mA Max -15V (±5%) @ 200 mA Max	**480 mA** **140 mA**	
32	Ripple DC to 10 MHz	100 mV Max	**<100mV**	

QA/QC Approval: K. Hammond Date: 9-11-25

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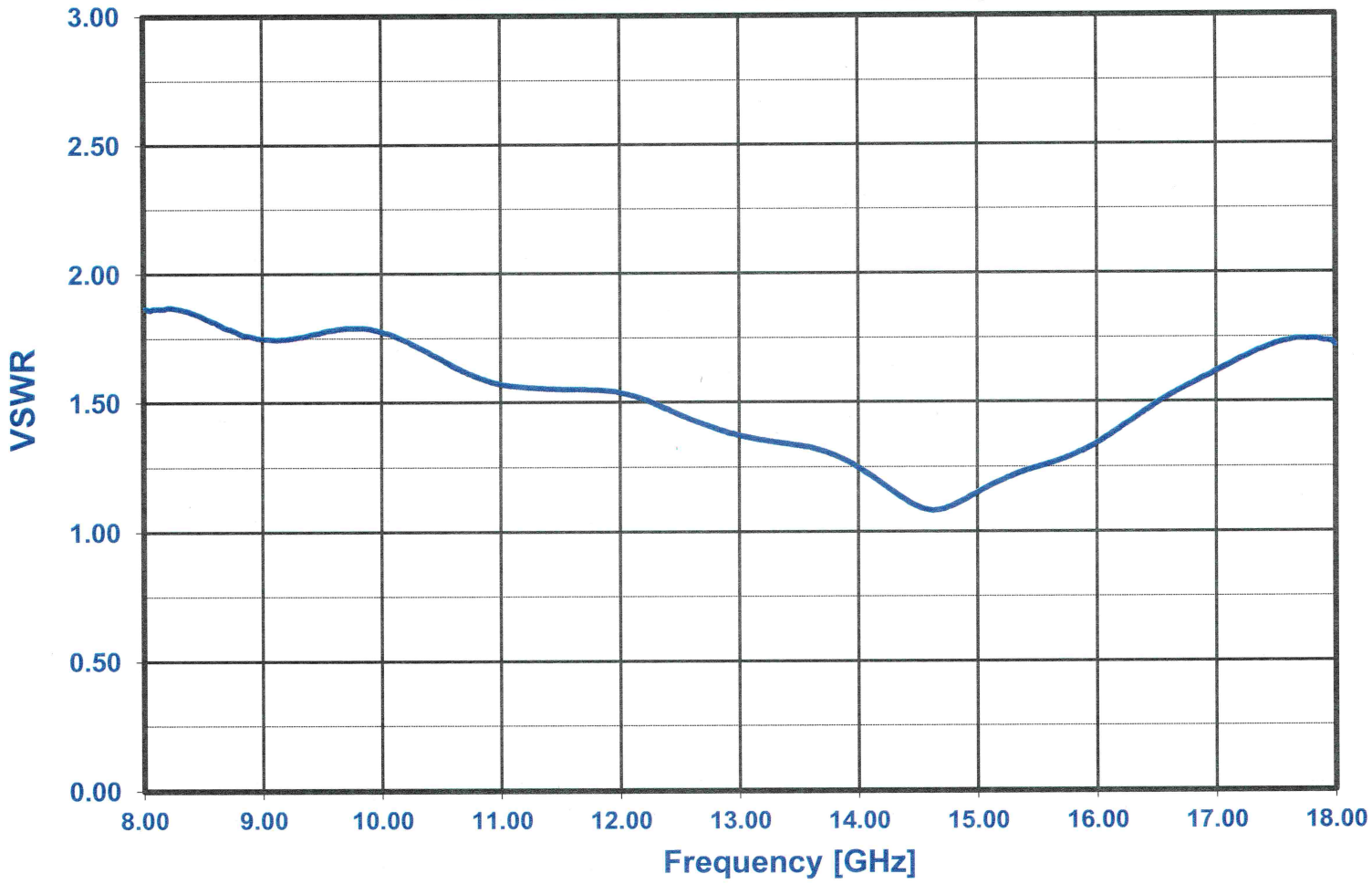
Model Number: ERDLVA-8G18G-65-70MV-2
Serial Number: PL53800

Temperature: +25C

RF INPUT VSWR GRAPH



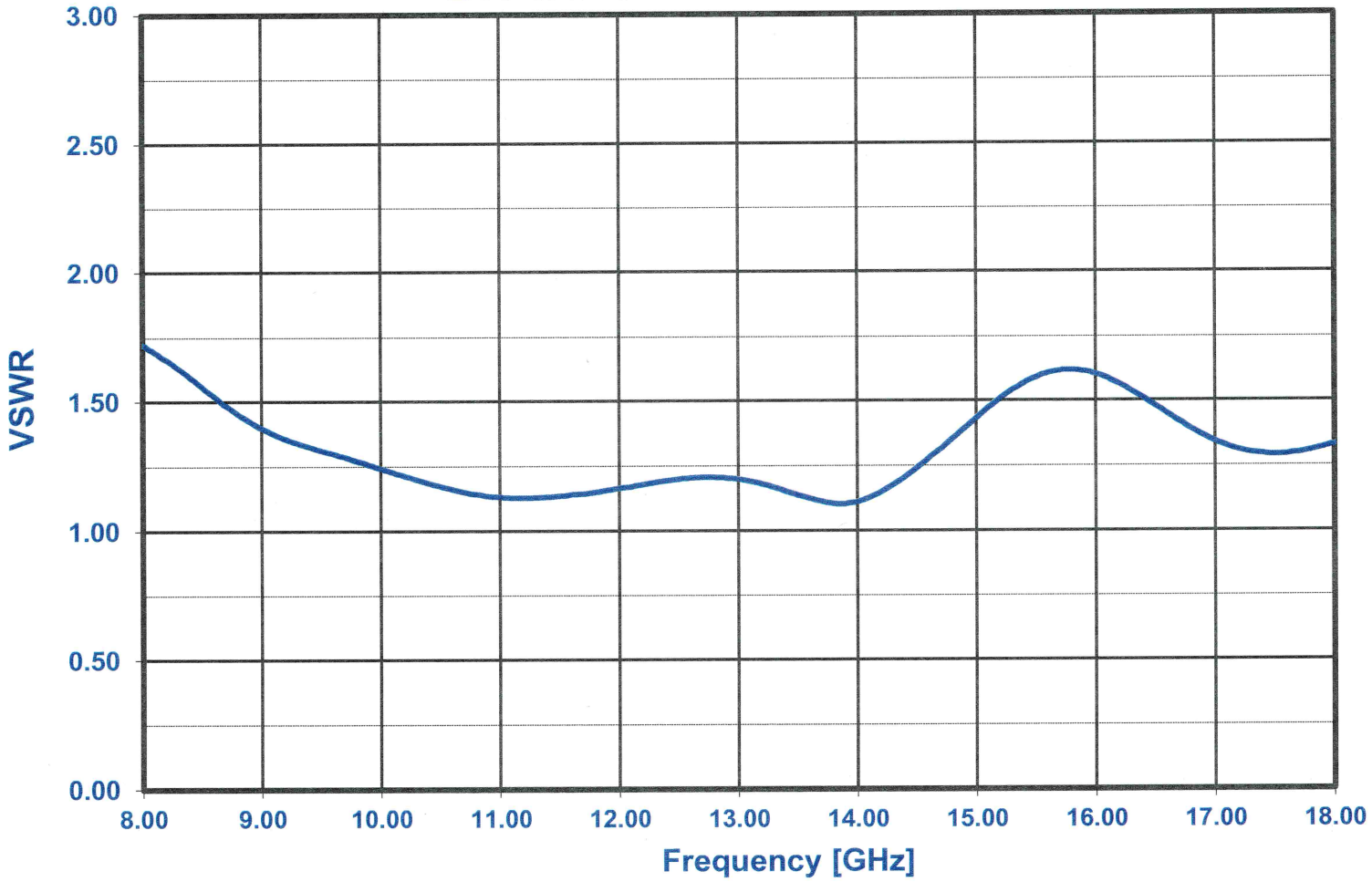
Input 1.87:1 Max

@ -20dBm

Model Number: ERDLVA-8G18G-65-70MV-2
Serial Number: PL53800

Temperature: +25C

BIT INPUT VSWR GRAPH



@ -20dBm

Input 1.72:1 Max

LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV-2
TESTED BY: JIM HOPSON
DATE: 9/10/25
SERIAL NO: PL53800 RF

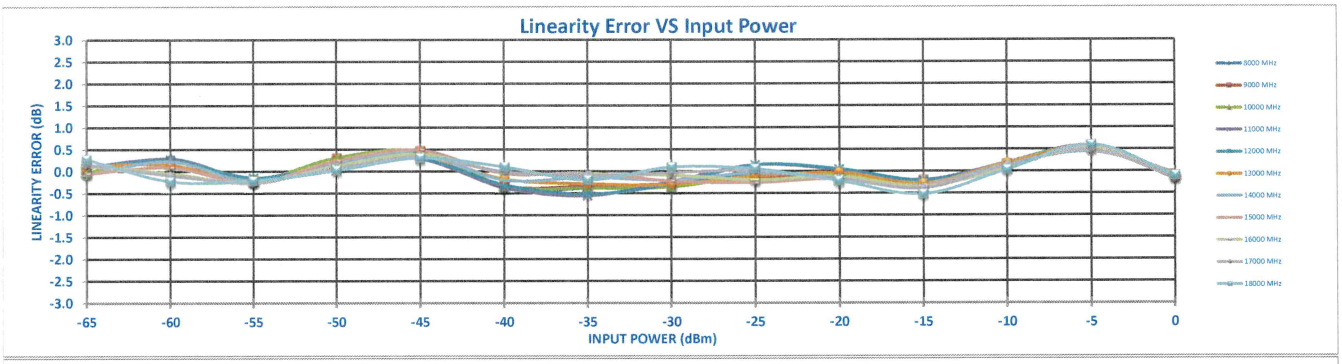
Test Temp: +25C

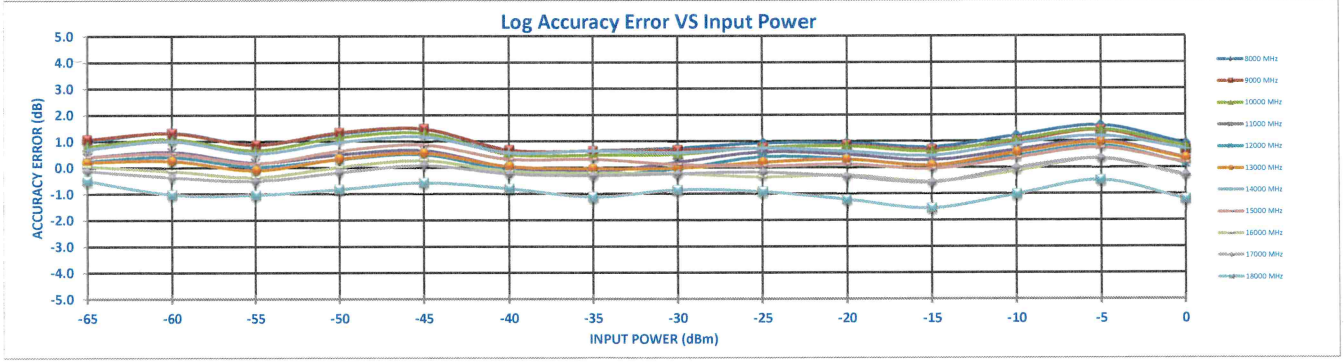
DC Offset= 0.036

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4879.1	315	689	1008	1389	1752	2045	2396	2753	3118	3470	3809	4191	4569	4871	Measured Value (mV)
	SLOPE (mV/dB)	70.18	-2	21	-11	19	31	-27	-27	-21	-7	-5	-17	14	41	-8	Error (mV)
			-0.03	0.30	-0.16	0.27	0.44	-0.38	-0.38	-0.29	-0.09	-0.08	-0.25	0.20	0.58	-0.12	LINEARITY ERROR (dB)
			1.00	1.33	0.87	1.30	1.47	0.64	0.65	0.73	0.93	0.95	0.78	1.22	1.60	0.91	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4864.3	320	688	1008	1392	1753	2047	2395	2748	3105	3463	3802	4176	4556	4855	Measured Value (mV)
	SLOPE (mV/dB)	69.87	-3	16	-13	21	33	-22	-24	-20	-12	-4	-14	10	41	-9	Error (mV)
			-0.04	0.23	-0.19	0.31	0.47	-0.32	-0.34	-0.29	-0.18	-0.06	-0.20	0.15	0.59	-0.13	LINEARITY ERROR (dB)
			1.07	1.31	0.87	1.34	1.48	0.67	0.63	0.66	0.75	0.85	0.68	1.00	1.42	0.68	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4869.8	302	672	993	1379	1741	2036	2384	2737	3106	3461	3798	4180	4558	4864	Measured Value (mV)
	SLOPE (mV/dB)	70.26	-1	18	-13	22	33	-24	-27	-25	-7	-4	-18	13	39	-5	Error (mV)
			-0.02	0.25	-0.18	0.31	0.47	-0.34	-0.38	-0.36	-0.11	-0.05	-0.26	0.18	0.56	-0.08	LINEARITY ERROR (dB)
			0.81	1.08	0.66	1.16	1.31	0.52	0.47	0.50	0.76	0.82	0.62	1.06	1.45	0.81	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4844.8	273	638	960	1333	1695	2001	2340	2715	3094	3438	3774	4153	4528	4833	Measured Value (mV)
	SLOPE (mV/dB)	70.45	7	20	-10	10	20	-26	-39	-16	10	2	-14	13	35	-12	Error (mV)
			0.10	0.28	-0.15	0.15	0.29	-0.37	-0.56	-0.23	0.15	0.03	-0.20	0.18	0.50	-0.17	LINEARITY ERROR (dB)
			0.40	0.60	0.19	0.50	0.66	0.02	-0.15	0.19	0.59	0.49	0.28	0.68	1.02	0.36	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4830.2	262	624	949	1320	1684	1993	2330	2698	3081	3426	3760	4136	4515	4818	Measured Value (mV)
	SLOPE (mV/dB)	70.39	7	17	-10	9	21	-22	-37	-21	11	4	-14	10	37	-12	Error (mV)
			0.10	0.24	-0.14	0.13	0.30	-0.31	-0.52	-0.29	0.15	0.05	-0.20	0.14	0.52	-0.17	LINEARITY ERROR (dB)
			0.24	0.40	0.03	0.32	0.50	-0.10	-0.30	-0.05	0.40	0.32	0.08	0.43	0.83	0.15	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4839.1	259	614	940	1322	1688	2003	2348	2700	3066	3425	3760	4146	4524	4832	Measured Value (mV)
	SLOPE (mV/dB)	70.60	9	11	-16	13	26	-12	-20	-21	-8	-2	-20	13	38	-7	Error (mV)
			0.12	0.15	-0.23	0.18	0.36	-0.17	-0.29	-0.30	-0.12	-0.03	-0.29	0.18	0.54	-0.10	LINEARITY ERROR (dB)
			0.20	0.26	-0.10	0.34	0.56	0.05	-0.04	-0.02	0.19	0.31	0.08	0.58	0.96	0.35	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4860.8	294	666	985	1366	1731	2040	2395	2741	3104	3446	3786	4169	4541	4857	Measured Value (mV)
	SLOPE (mV/dB)	70.18	-5	16	-16	14	28	-14	-10	-15	-2	-11	-22	10	31	-4	Error (mV)
			-0.08	0.23	-0.23	0.20	0.40	-0.20	-0.14	-0.21	-0.03	-0.16	-0.32	0.14	0.44	-0.05	LINEARITY ERROR (dB)
			0.70	1.00	0.54	0.97	1.17	0.57	0.63	0.56	0.73	0.60	0.45	0.90	1.20	0.71	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4823	273	633	958	1343	1710	2022	2373	2709	3056	3412	3751	4131	4509	4820	Measured Value (mV)
	SLOPE (mV/dB)	69.94	-4	6	-18	17	34	-3	-2	-16	-19	-12	-23	7	36	-3	Error (mV)
			-0.06	0.09	-0.26	0.24	0.49	-0.05	-0.03	-0.23	-0.26	-0.17	-0.33	0.11	0.51	-0.04	LINEARITY ERROR (dB)
			0.40	0.53	0.16	0.64	0.87	0.32	0.32	0.10	0.05	0.12	-0.05	0.36	0.75	0.18	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4792.4	248	587	921	1299	1668	1990	2336	2685	3027	3383	3717	4096	4481	4785	Measured Value (mV)
	SLOPE (mV/dB)	70.04	9	-3	-19	9	28	-1	-5	-6	-14	-8	-25	4	39	-7	Error (mV)
			0.12	-0.04	-0.27	0.13	0.39	-0.01	-0.07	-0.09	-0.20	-0.12	-0.35	0.06	0.55	-0.11	LINEARITY ERROR (dB)
			0.04	-0.13	-0.37	0.02	0.27	-0.14	-0.21	-0.24	-0.37	-0.29	-0.53	-0.14	0.35	-0.32	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4798	236	570	911	1285	1655	1983	2329	2685	3040	3379	3715	4104	4480	4787	Measured Value (mV)
	SLOPE (mV/dB)	70.36	11	-6	-17	5	23	-1	-6	-2	1	-12	-28	10	34	-11	Error (mV)
			0.16	-0.09	-0.25	0.07	0.33	-0.01	-0.09	-0.03	0.01	-0.17	-0.39	0.14	0.48	-0.16	LINEARITY ERROR (dB)
			-0.13	-0.37	-0.51	-0.18	0.09	-0.24	-0.31	-0.24	-0.18	-0.35	-0.56	-0.02	0.34	-0.29	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4730.3	210	524	874	1240	1609	1944	2272	2642	2988	3318	3646	4034	4423	4723	Measured Value (mV)
	SLOPE (mV/dB)	69.84	19	-16	-15	2	22	7	-14	7	4	-16	-37	2	42	-7	Error (mV)
			0.28	-0.23	-0.22	0.02	0.31	0.10	-0.20	0.10	0.05	-0.22	-0.53	0.03	0.60	-0.10	LINEARITY ERROR (dB)
			-0.50	-1.03	-1.04	-0.82	-0.57	-0.79	-1.12	-0.85	-0.92	-1.22	-1.55	-1.02	-0.48	-1.20	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.78	1.18	0.95	1.08	1.03	0.73	0.88	0.79	0.93	1.08	1.16	1.12	1.04	1.05	

-65dBm mV-Out	
320	Max
210	Min





LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV-2
TESTED BY: JIM HOPSON
DATE: 9/10/25
SERIAL NO: PL53800-BIT

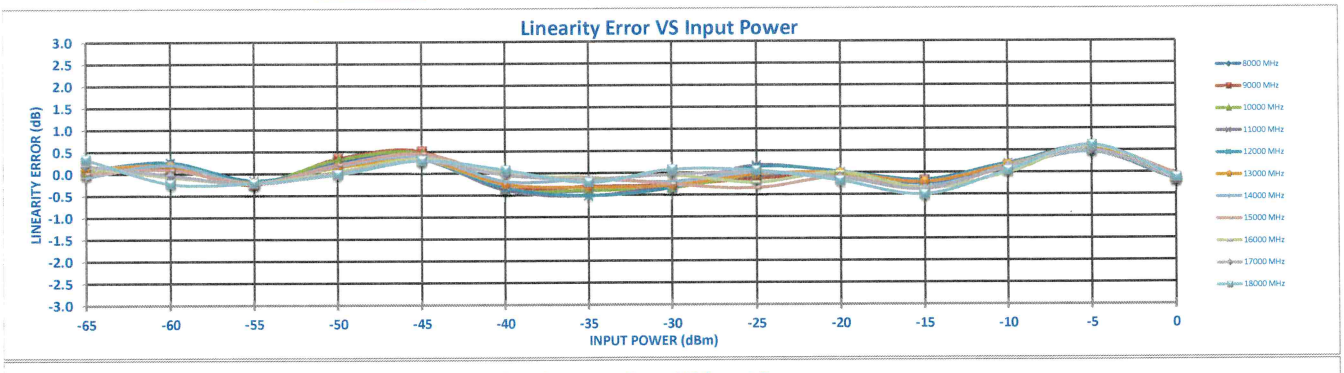
Test Temp: +25C

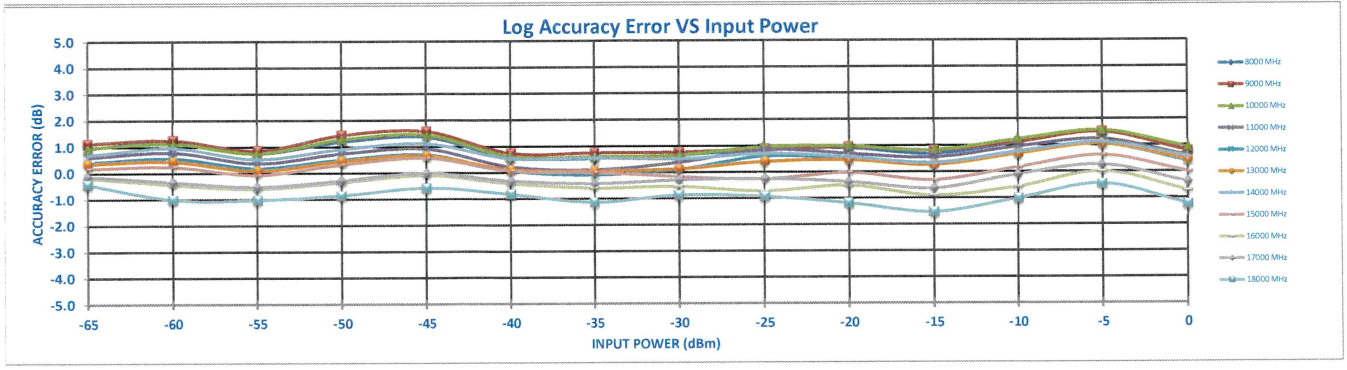
DC Offset= 0.032

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4869.9	306	675	995	1377	1740	2036	2384	2743	3109	3464	3799	4180	4560	4860	Measured Value (mV)
	SLOPE (mV/dB)	70.22	0	18	-13	18	30	-25	-28	-20	-5	-1	-18	12	41	-10	Error (mV)
			0.01	0.26	-0.18	0.26	0.43	-0.36	-0.40	-0.29	-0.08	-0.02	-0.25	0.18	0.59	-0.14	LINEARITY ERROR (dB)
			0.94	1.19	0.75	1.19	1.36	0.57	0.53	0.64	0.85	0.90	0.67	1.10	1.51	0.78	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4871	319	679	1002	1394	1755	2047	2399	2751	3111	3467	3808	4181	4559	4859	Measured Value (mV)
	SLOPE (mV/dB)	70.03	0	10	-17	24	35	-23	-21	-19	-9	-3	-13	10	38	-12	Error (mV)
			0.00	0.14	-0.25	0.35	0.50	-0.33	-0.30	-0.27	-0.13	-0.05	-0.18	0.15	0.55	-0.17	LINEARITY ERROR (dB)
			1.12	1.25	0.85	1.43	1.57	0.73	0.74	0.75	0.88	0.95	0.80	1.11	1.49	0.77	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4878.9	307	670	995	1383	1745	2039	2389	2744	3117	3469	3809	4189	4563	4870	Measured Value (mV)
	SLOPE (mV/dB)	70.36	2	13	-14	22	32	-25	-27	-24	-5	-3	-14	14	36	-9	Error (mV)
			0.03	0.18	-0.20	0.32	0.46	-0.36	-0.39	-0.34	-0.04	-0.04	-0.21	0.20	0.51	-0.13	LINEARITY ERROR (dB)
			0.95	1.12	0.75	1.27	1.43	0.61	0.60	0.65	0.96	0.97	0.82	1.23	1.55	0.92	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4859.2	282	646	968	1345	1708	2011	2354	2724	3108	3449	3789	4169	4540	4846	Measured Value (mV)
	SLOPE (mV/dB)	70.53	7	18	-12	12	23	-27	-37	-19	12	0	-12	15	33	-13	Error (mV)
			0.10	0.26	-0.17	0.17	0.32	-0.38	-0.52	-0.27	0.17	0.00	-0.17	0.21	0.47	-0.19	LINEARITY ERROR (dB)
			0.60	0.78	0.37	0.73	0.90	0.22	0.10	0.37	0.83	0.69	0.53	0.94	1.22	0.58	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4844.8	268	631	955	1329	1693	2000	2340	2705	3091	3436	3775	4154	4527	4832	Measured Value (mV)
	SLOPE (mV/dB)	70.53	8	18	-11	11	22	-24	-36	-24	9	2	-12	15	35	-13	Error (mV)
			0.11	0.25	-0.15	0.15	0.31	-0.33	-0.51	-0.34	0.13	0.03	-0.17	0.21	0.49	-0.18	LINEARITY ERROR (dB)
			0.40	0.57	0.18	0.51	0.69	0.06	-0.10	0.10	0.59	0.50	0.33	0.73	1.04	0.38	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4844.2	265	622	948	1325	1690	2003	2351	2707	3077	3432	3770	4150	4527	4835	Measured Value (mV)
	SLOPE (mV/dB)	70.59	9	13	-14	10	22	-18	-23	-20	-3	0	-15	12	36	-9	Error (mV)
			0.13	0.18	-0.20	0.14	0.31	-0.25	-0.32	-0.28	-0.04	-0.01	-0.22	0.16	0.51	-0.13	LINEARITY ERROR (dB)
			0.36	0.44	0.08	0.45	0.65	0.10	0.06	0.13	0.39	0.45	0.26	0.67	1.04	0.42	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4849.7	288	658	979	1357	1722	2033	2386	2733	3098	3440	3775	4156	4531	4844	Measured Value (mV)
	SLOPE (mV/dB)	70.10	-5	14	-15	12	27	-13	-10	-14	1	-8	-23	7	32	-6	Error (mV)
			-0.07	0.21	-0.22	0.18	0.38	-0.18	-0.15	-0.20	0.01	-0.11	-0.33	0.10	0.45	-0.08	LINEARITY ERROR (dB)
			0.68	0.95	0.52	0.90	1.10	0.53	0.55	0.50	0.69	0.56	0.33	0.76	1.10	0.55	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4806.4	252	608	937	1316	1684	2000	2347	2686	3030	3398	3729	4114	4497	4804	Measured Value (mV)
	SLOPE (mV/dB)	70.08	1	7	-15	14	31	-3	-7	-18	-24	-7	-26	8	41	-2	Error (mV)
			0.01	0.09	-0.21	0.20	0.45	-0.04	-0.09	-0.26	-0.35	-0.10	-0.37	0.12	0.59	-0.03	LINEARITY ERROR (dB)
			0.17	0.24	-0.08	0.32	0.56	0.06	0.00	-0.17	-0.28	-0.04	-0.32	0.16	0.61	-0.02	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4762.6	227	560	900	1268	1638	1966	2305	2660	2998	3364	3688	4062	4454	4754	Measured Value (mV)
	SLOPE (mV/dB)	69.96	12	-5	-15	3	24	2	-9	-4	-16	1	-25	-1	41	-9	Error (mV)
			0.17	-0.07	-0.21	0.05	0.34	0.03	-0.13	-0.05	-0.22	0.01	-0.36	-0.01	0.59	-0.12	LINEARITY ERROR (dB)
			-0.19	-0.44	-0.60	-0.36	-0.10	-0.43	-0.60	-0.54	-0.73	-0.52	-0.91	-0.58	0.00	-0.73	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4788.6	231	567	905	1273	1644	1973	2317	2677	3031	3374	3707	4095	4472	4777	Measured Value (mV)
	SLOPE (mV/dB)	70.32	13	-2	-16	1	20	-3	-10	-2	1	-8	-27	10	35	-12	Error (mV)
			0.19	-0.03	-0.22	0.01	0.28	-0.04	-0.15	-0.03	0.01	-0.12	-0.38	0.14	0.50	-0.16	LINEARITY ERROR (dB)
			-0.13	-0.34	-0.53	-0.29	-0.01	-0.33	-0.43	-0.30	-0.26	-0.38	-0.64	-0.11	0.26	-0.40	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4726.9	210	520	870	1233	1604	1938	2267	2637	2984	3317	3644	4031	4421	4718	Measured Value (mV)
	SLOPE (mV/dB)	69.85	23	-16	-15	-1	20	5	-15	6	3	-13	-35	3	43	-9	Error (mV)
			0.34	-0.23	-0.22	-0.02	0.29	0.07	-0.22	0.08	0.05	-0.18	-0.50	0.04	0.62	-0.13	LINEARITY ERROR (dB)
			-0.43	-1.01	-1.03	-0.86	-0.58	-0.82	-1.14	-0.87	-0.93	-1.19	-1.53	-1.02	-0.47	-1.24	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.78	1.13	0.94	1.15	1.07	0.78	0.94	0.81	0.95	1.08	1.17	1.12	1.01	1.08	

-65dBm mV-Out	
319	Max
210	Min





LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV
TESTED BY: JIM HOPSON
DATE: 9/10/25
SERIAL NO: PL53800 RF

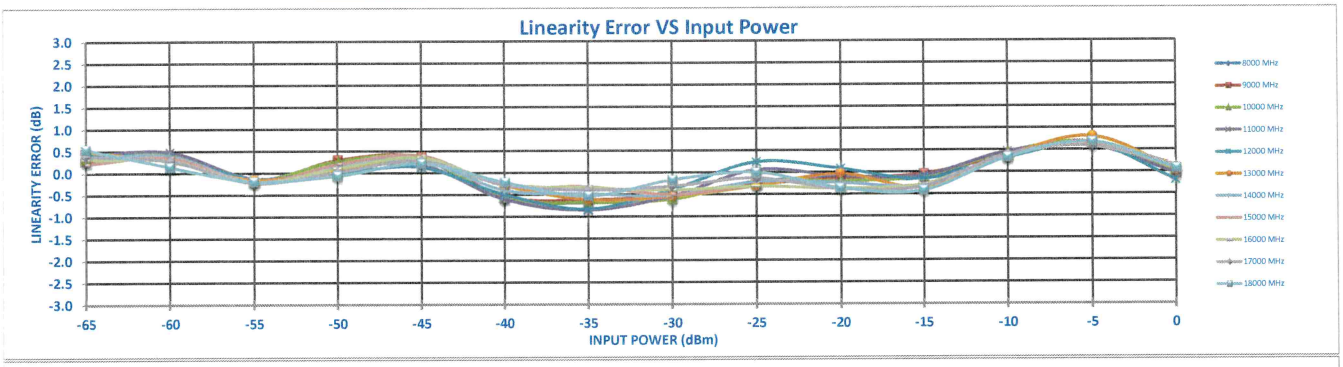
Test Temp: -10C

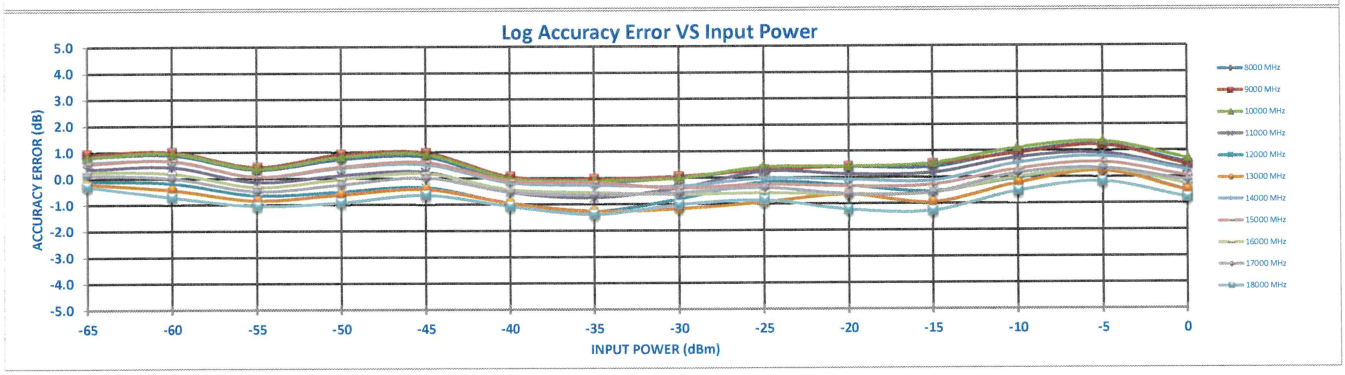
DC Offset= 0.019

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4923.8	303	666	983	1368	1731	2024	2374	2743	3122	3486	3842	4240	4615	4923	Measured Value (mV)
	SLOPE (mV/dB)	71.46	24	30	-11	17	23	-41	-49	-37	-15	-9	-10	31	48	-1	Error (mV)
			0.34	0.42	-0.15	0.24	0.32	-0.58	-0.68	-0.52	-0.22	-0.12	-0.14	0.43	0.68	-0.01	LINEARITY ERROR (dB)
			0.81	0.90	0.34	0.73	0.82	-0.08	-0.17	0.00	0.31	0.41	0.39	0.97	1.22	0.54	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4921.7	311	674	990	1381	1742	2034	2384	2747	3121	3487	3850	4236	4614	4918	Measured Value (mV)
	SLOPE (mV/dB)	71.24	20	27	-13	21	26	-38	-44	-37	-20	-10	-3	27	48	-4	Error (mV)
			0.28	0.38	-0.19	0.30	0.37	-0.53	-0.62	-0.53	-0.28	-0.14	-0.04	0.37	0.68	-0.05	LINEARITY ERROR (dB)
			0.92	1.01	0.44	0.91	0.97	0.06	-0.03	0.05	0.29	0.42	0.50	0.91	1.21	0.47	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4933.3	303	670	986	1374	1737	2029	2379	2742	3129	3487	3852	4250	4624	4935	Measured Value (mV)
	SLOPE (mV/dB)	71.58	22	32	-10	20	25	-41	-49	-44	-15	-15	-8	33	49	2	Error (mV)
			0.31	0.44	-0.14	0.28	0.35	-0.57	-0.68	-0.61	-0.21	-0.21	-0.11	0.45	0.68	0.02	LINEARITY ERROR (dB)
			0.81	0.95	0.38	0.82	0.90	-0.01	-0.10	-0.02	0.40	0.42	0.53	1.11	1.35	0.70	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4909	270	633	949	1324	1690	1992	2333	2715	3117	3466	3826	4224	4592	4906	Measured Value (mV)
	SLOPE (mV/dB)	71.84	31	35	-9	7	14	-43	-61	-39	4	-6	-5	33	42	-3	Error (mV)
			0.43	0.48	-0.12	0.10	0.19	-0.60	-0.86	-0.54	0.06	-0.09	-0.07	0.47	0.59	-0.04	LINEARITY ERROR (dB)
			0.35	0.44	-0.14	0.12	0.24	-0.53	-0.75	-0.40	0.24	0.12	0.17	0.74	0.90	0.30	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4861.6	238	589	913	1280	1648	1961	2295	2685	3088	3435	3776	4168	4548	4848	Measured Value (mV)
	SLOPE (mV/dB)	71.63	32	25	-9	0	10	-36	-60	-28	17	6	-11	23	45	-14	Error (mV)
			0.45	0.35	-0.13	0.00	0.13	-0.50	-0.83	-0.39	0.24	0.08	-0.16	0.32	0.62	-0.19	LINEARITY ERROR (dB)
			-0.10	-0.18	-0.64	-0.50	-0.34	-0.96	-1.28	-0.82	-0.17	-0.31	-0.53	-0.04	0.28	-0.51	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4844.3	230	571	899	1272	1643	1962	2296	2659	3033	3411	3746	4155	4544	4847	Measured Value (mV)
	SLOPE (mV/dB)	71.54	36	19	-10	5	18	-21	-44	-39	-23	-2	-25	26	57	3	Error (mV)
			0.50	0.27	-0.15	0.07	0.25	-0.29	-0.62	-0.55	-0.32	-0.03	-0.35	0.37	0.80	0.04	LINEARITY ERROR (dB)
			-0.21	-0.43	-0.84	-0.61	-0.41	-0.95	-1.27	-1.18	-0.94	-0.65	-0.95	-0.22	0.23	-0.53	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4893.8	289	649	963	1344	1710	2017	2367	2720	3098	3452	3805	4209	4584	4903	Measured Value (mV)
	SLOPE (mV/dB)	71.21	24	28	-14	11	21	-28	-34	-37	-15	-17	-21	27	46	9	Error (mV)
			0.34	0.39	-0.20	0.15	0.29	-0.40	-0.48	-0.52	-0.22	-0.25	-0.29	0.38	0.65	0.13	LINEARITY ERROR (dB)
			0.62	0.66	0.06	0.40	0.52	-0.18	-0.27	-0.33	-0.03	-0.07	-0.13	0.53	0.79	0.26	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4876.7	285	650	964	1348	1716	2022	2374	2715	3082	3433	3794	4193	4568	4887	Measured Value (mV)
	SLOPE (mV/dB)	70.86	14	25	-15	14	28	-20	-22	-36	-23	-26	-20	25	46	10	Error (mV)
			0.20	0.35	-0.21	0.20	0.40	-0.28	-0.32	-0.51	-0.33	-0.37	-0.28	0.35	0.64	0.15	LINEARITY ERROR (dB)
			0.56	0.67	0.07	0.45	0.61	-0.10	-0.17	-0.40	-0.25	-0.34	-0.28	0.31	0.56	0.03	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4857.3	263	616	936	1314	1686	1999	2347	2698	3059	3411	3772	4171	4550	4865	Measured Value (mV)
	SLOPE (mV/dB)	71.02	22	20	-15	8	25	-17	-25	-29	-23	-26	-20	24	48	8	Error (mV)
			0.31	0.28	-0.21	0.11	0.35	-0.24	-0.35	-0.40	-0.32	-0.36	-0.28	0.34	0.67	0.11	LINEARITY ERROR (dB)
			0.25	0.20	-0.32	-0.02	0.19	-0.43	-0.55	-0.63	-0.58	-0.65	-0.59	0.00	0.31	-0.28	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4867.5	254	603	924	1299	1674	1992	2340	2703	3073	3412	3773	4182	4552	4875	Measured Value (mV)
	SLOPE (mV/dB)	71.41	28	20	-16	2	20	-19	-28	-22	-9	-27	-23	29	41	7	Error (mV)
			0.39	0.28	-0.23	0.02	0.28	-0.27	-0.40	-0.31	-0.13	-0.38	-0.33	0.40	0.58	0.10	LINEARITY ERROR (dB)
			0.13	0.02	-0.49	-0.23	0.02	-0.53	-0.65	-0.56	-0.38	-0.63	-0.57	0.16	0.34	-0.14	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4823.5	223	551	884	1250	1627	1953	2287	2670	3039	3370	3723	4133	4515	4828	Measured Value (mV)
	SLOPE (mV/dB)	71.37	39	10	-14	-5	15	-15	-38	-12	0	-26	-30	23	48	5	Error (mV)
			0.54	0.14	-0.19	-0.07	0.22	-0.22	-0.54	-0.17	0.00	-0.36	-0.42	0.33	0.68	0.06	LINEARITY ERROR (dB)
			-0.31	-0.71	-1.05	-0.92	-0.64	-1.07	-1.39	-1.03	-0.86	-1.22	-1.27	-0.53	-0.18	-0.79	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.62	0.86	0.74	0.92	0.81	0.57	0.68	0.62	0.67	0.82	0.90	0.82	0.76	0.75	

-65dBm mV-Out	
311	Max
223	Min





LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV
TESTED BY: JIM HOPSON
DATE: 9/10/25
SERIAL NO: PL53800 RF

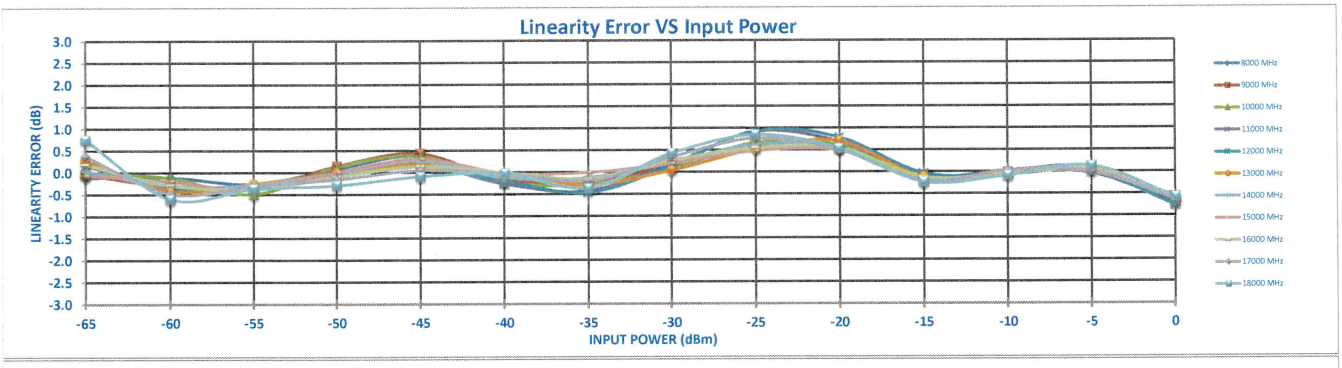
Test Temp: +85C

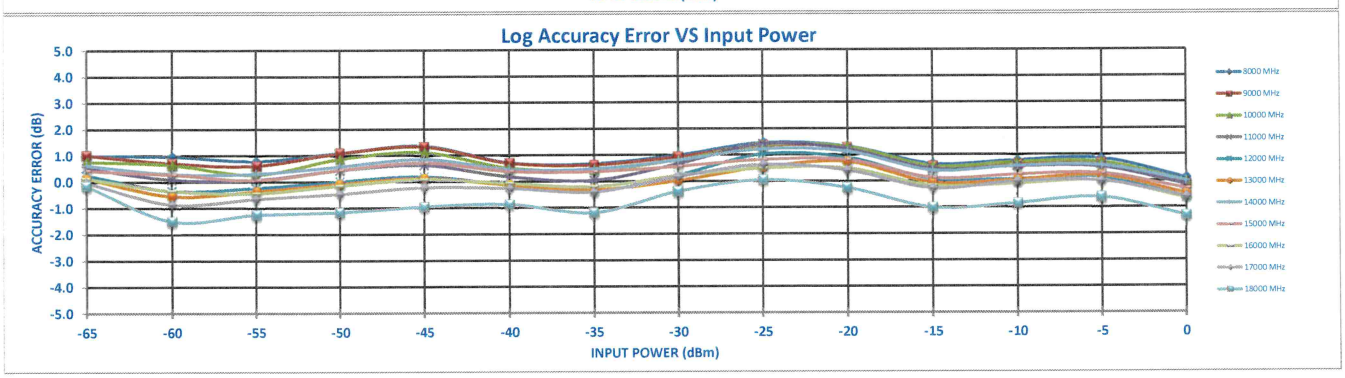
DC Offset= 0.060

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4795.2	279	626	962	1333	1700	2004	2350	2721	3103	3442	3744	4102	4455	4753	Measured Value (mV)
	SLOPE (mV/dB)	69.36	-8	-8	-18	6	26	-17	-18	7	42	34	-11	0	7	-42	Error (mV)
			-0.11	-0.11	-0.26	0.08	0.38	-0.24	-0.25	0.10	0.60	0.49	-0.16	0.01	0.09	-0.61	LINEARITY ERROR (dB)
			0.99	0.96	0.78	1.09	1.35	0.71	0.67	0.99	1.46	1.32	0.65	0.78	0.84	0.11	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4784.3	281	608	950	1332	1698	2003	2347	2717	3095	3439	3738	4090	4442	4735	Measured Value (mV)
	SLOPE (mV/dB)	69.24	-3	-22	-26	10	30	-12	-14	10	42	40	-8	-2	4	-49	Error (mV)
			-0.04	-0.31	-0.37	0.14	0.43	-0.17	-0.20	0.14	0.60	0.57	-0.11	-0.03	0.06	-0.71	LINEARITY ERROR (dB)
			1.02	0.70	0.61	1.08	1.33	0.70	0.63	0.93	1.35	1.28	0.56	0.61	0.65	-0.15	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4791.7	264	604	926	1317	1683	1990	2334	2708	3097	3441	3738	4097	4446	4744	Measured Value (mV)
	SLOPE (mV/dB)	69.66	0	-8	-34	8	26	-15	-20	6	47	42	-9	2	3	-48	Error (mV)
			0.00	-0.12	-0.49	0.12	0.37	-0.22	-0.28	0.09	0.67	0.61	-0.13	0.03	0.04	-0.68	LINEARITY ERROR (dB)
			0.77	0.65	0.26	0.87	1.11	0.51	0.44	0.80	1.38	1.31	0.56	0.71	0.71	-0.02	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4785.9	247	565	913	1287	1649	1967	2306	2698	3100	3434	3730	4086	4433	4735	Measured Value (mV)
	SLOPE (mV/dB)	70.01	12	-21	-23	1	13	-19	-30	12	64	48	-6	0	-3	-51	Error (mV)
			0.16	-0.29	-0.32	0.02	0.19	-0.27	-0.42	0.18	0.92	0.69	-0.08	0.00	-0.04	-0.73	LINEARITY ERROR (dB)
			0.53	0.09	0.08	0.44	0.62	0.18	0.04	0.66	1.42	1.21	0.45	0.55	0.52	-0.15	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4755.5	228	535	891	1257	1619	1945	2276	2668	3073	3412	3704	4052	4406	4701	Measured Value (mV)
	SLOPE (mV/dB)	69.91	17	-26	-19	-3	10	-14	-33	10	65	55	-3	-4	0	-54	Error (mV)
			0.24	-0.37	-0.28	-0.04	0.14	-0.20	-0.47	0.14	0.93	0.78	-0.04	-0.06	0.00	-0.78	LINEARITY ERROR (dB)
			0.26	-0.34	-0.24	0.01	0.19	-0.13	-0.39	0.23	1.03	0.89	0.08	0.06	0.14	-0.64	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4753.3	219	521	882	1250	1614	1946	2281	2654	3038	3401	3694	4050	4410	4711	Measured Value (mV)
	SLOPE (mV/dB)	70.06	19	-29	-18	-1	13	-5	-20	2	36	49	-8	-3	7	-42	Error (mV)
			0.28	-0.41	-0.26	-0.01	0.19	-0.07	-0.29	0.03	0.51	0.70	-0.12	-0.04	0.10	-0.60	LINEARITY ERROR (dB)
			0.13	-0.54	-0.37	-0.09	0.12	-0.12	-0.32	0.03	0.53	0.73	-0.07	0.03	0.19	-0.49	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4786.3	254	580	929	1297	1665	1987	2336	2708	3086	3428	3726	4087	4437	4745	Measured Value (mV)
	SLOPE (mV/dB)	69.77	2	-20	-20	-1	18	-9	-9	15	44	37	-14	-2	-1	-41	Error (mV)
			0.04	-0.29	-0.29	-0.01	0.26	-0.12	-0.12	0.21	0.63	0.53	-0.20	-0.02	-0.01	-0.59	LINEARITY ERROR (dB)
			0.63	0.30	0.30	0.58	0.85	0.47	0.47	0.80	1.22	1.12	0.39	0.56	0.58	0.00	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4762.9	240	578	912	1287	1656	1981	2329	2691	3058	3406	3707	4064	4416	4724	Measured Value (mV)
	SLOPE (mV/dB)	69.52	-4	-14	-27	0	22	-1	-1	14	33	33	-13	-4	1	-39	Error (mV)
			-0.06	-0.20	-0.39	0.00	0.31	-0.02	-0.01	0.20	0.48	0.48	-0.19	-0.05	0.01	-0.56	LINEARITY ERROR (dB)
			0.43	0.27	0.06	0.44	0.72	0.38	0.37	0.56	0.82	0.80	0.12	0.24	0.28	-0.31	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4741.8	219	535	877	1246	1611	1950	2289	2667	3035	3384	3686	4040	4396	4699	Measured Value (mV)
	SLOPE (mV/dB)	69.78	13	-20	-27	-7	9	0	-10	19	38	38	-9	-4	3	-43	Error (mV)
			0.19	-0.28	-0.38	-0.10	0.14	-0.01	-0.15	0.27	0.54	0.54	-0.13	-0.06	0.04	-0.61	LINEARITY ERROR (dB)
			0.13	-0.34	-0.44	-0.15	0.08	-0.06	-0.20	0.21	0.49	0.49	-0.18	-0.11	-0.01	-0.66	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4747.5	208	499	862	1224	1590	1936	2275	2664	3045	3378	3679	4046	4396	4703	Measured Value (mV)
	SLOPE (mV/dB)	70.24	26	-34	-22	-11	3	-2	-14	24	54	35	-15	1	0	-44	Error (mV)
			0.37	-0.48	-0.32	-0.16	0.05	-0.03	-0.20	0.34	0.76	0.50	-0.21	0.01	0.00	-0.63	LINEARITY ERROR (dB)
			-0.03	-0.86	-0.66	-0.47	-0.22	-0.26	-0.40	0.17	0.63	0.40	-0.28	-0.02	-0.01	-0.61	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4694.2	199	454	820	1175	1539	1894	2220	2625	3004	3332	3628	3988	4353	4653	Measured Value (mV)
	SLOPE (mV/dB)	69.97	53	-42	-26	-21	-7	-2	-25	30	59	37	-17	-7	9	-41	Error (mV)
			0.75	-0.60	-0.37	-0.30	-0.10	-0.02	-0.36	0.43	0.84	0.53	-0.24	-0.09	0.12	-0.59	LINEARITY ERROR (dB)
			-0.16	-1.50	-1.26	-1.17	-0.95	-0.87	-1.19	-0.39	0.04	-0.26	-1.01	-0.85	-0.62	-1.32	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.59	1.23	1.02	1.13	1.15	0.79	0.93	0.69	0.71	0.79	0.83	0.82	0.73	0.72	

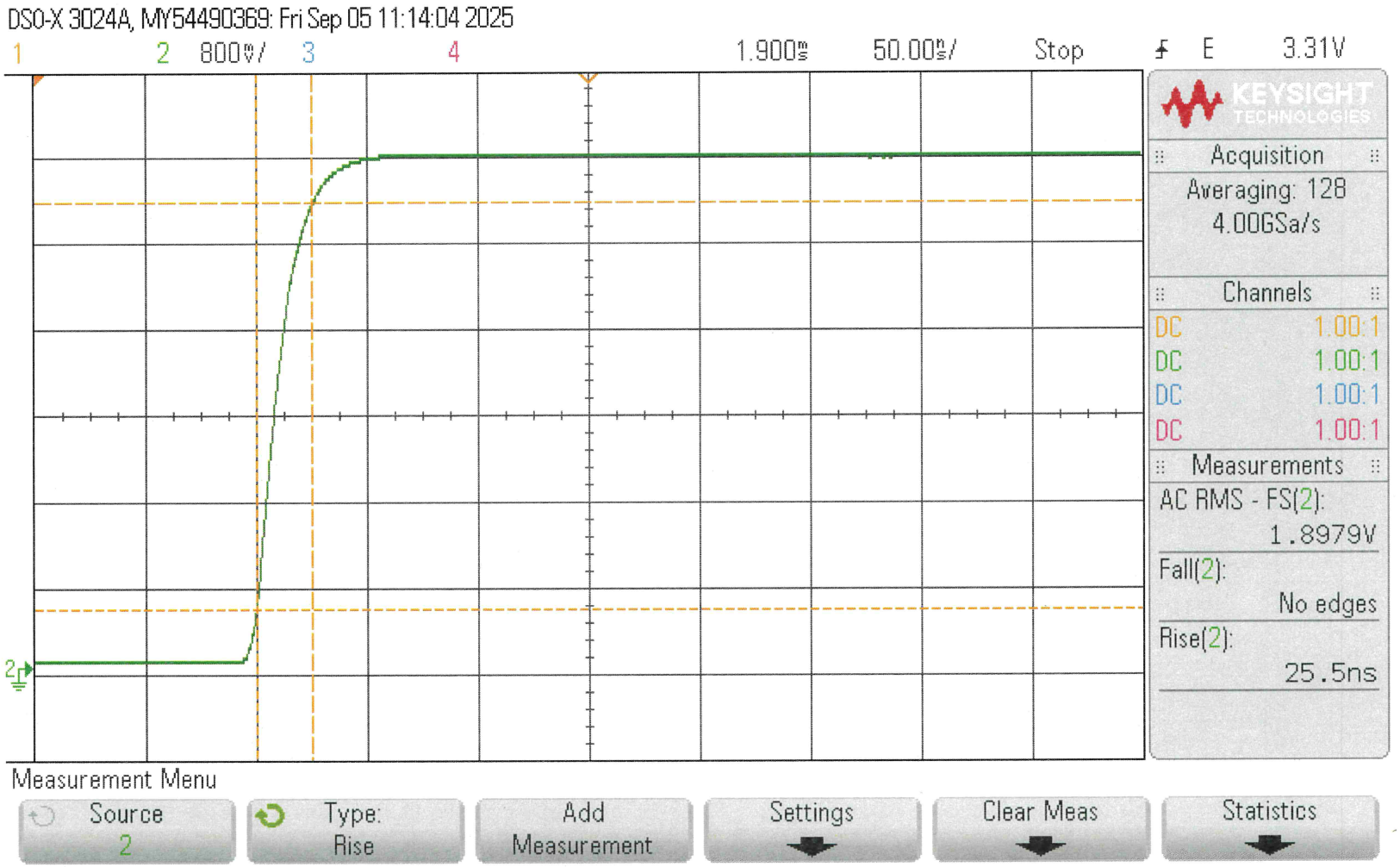
-65dBm mV-Out	
281	Max
199	Min



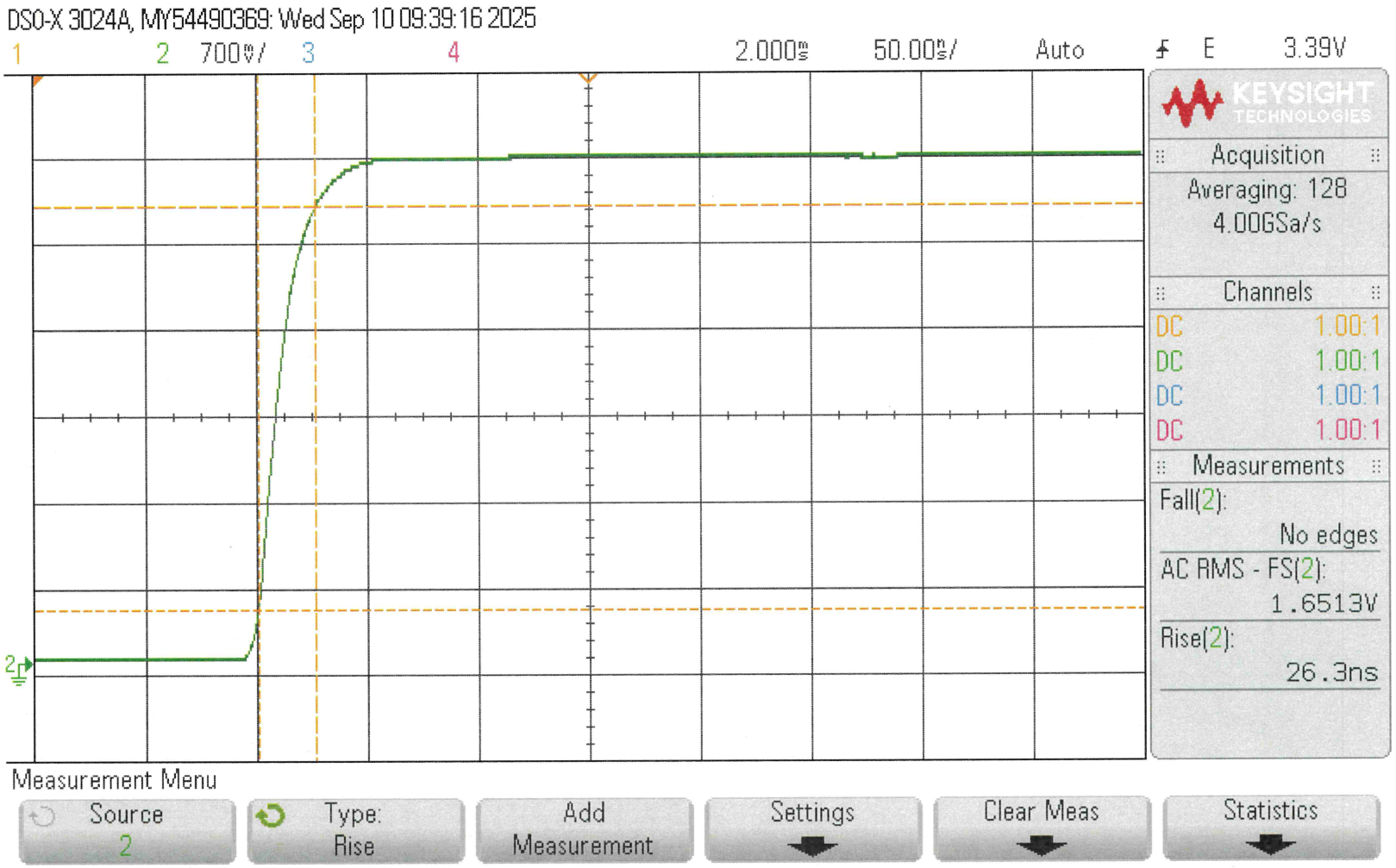


PL 53800

Rise / settling @ 0dbm

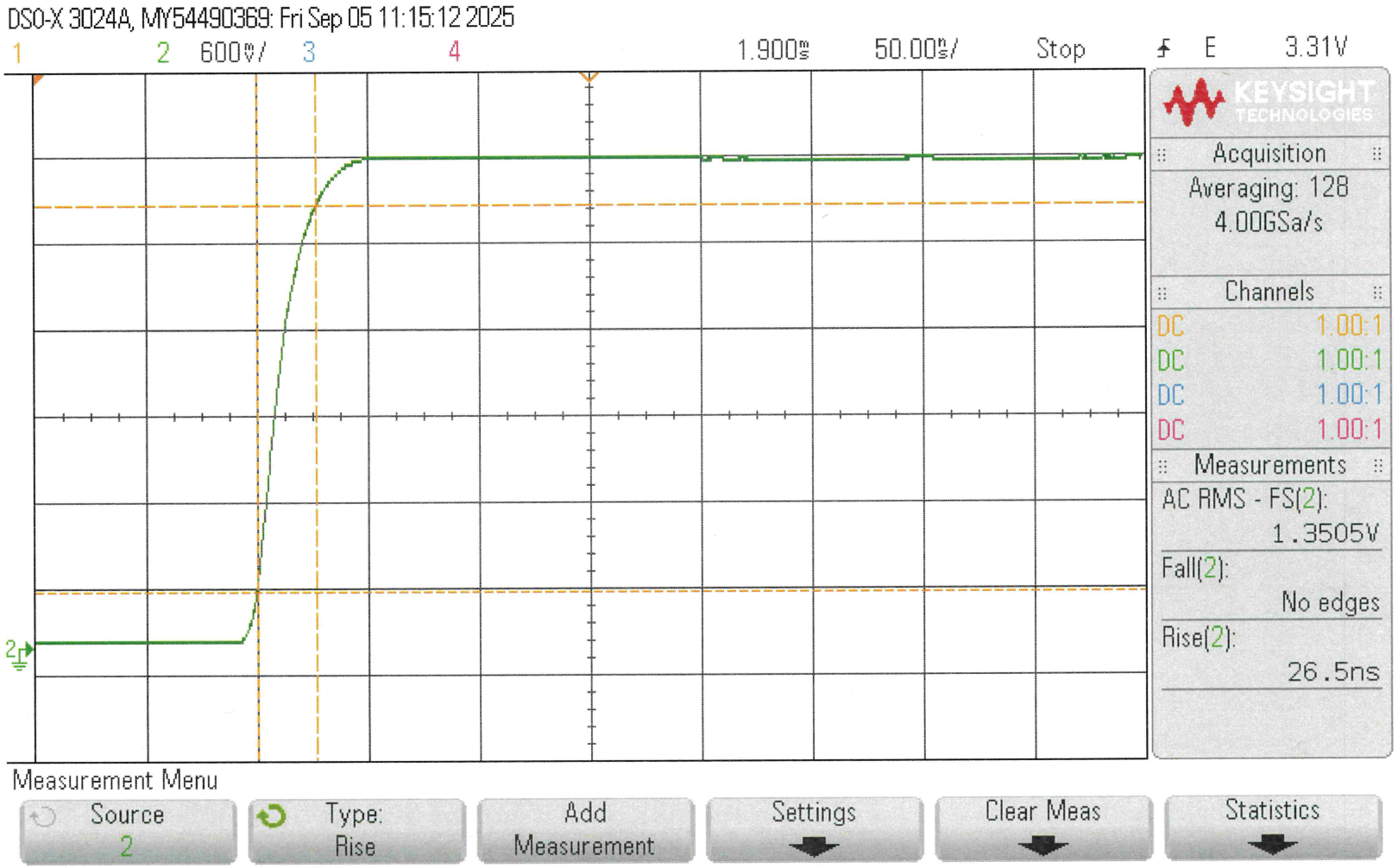


PL53800
Rise/setting @ -10dbm



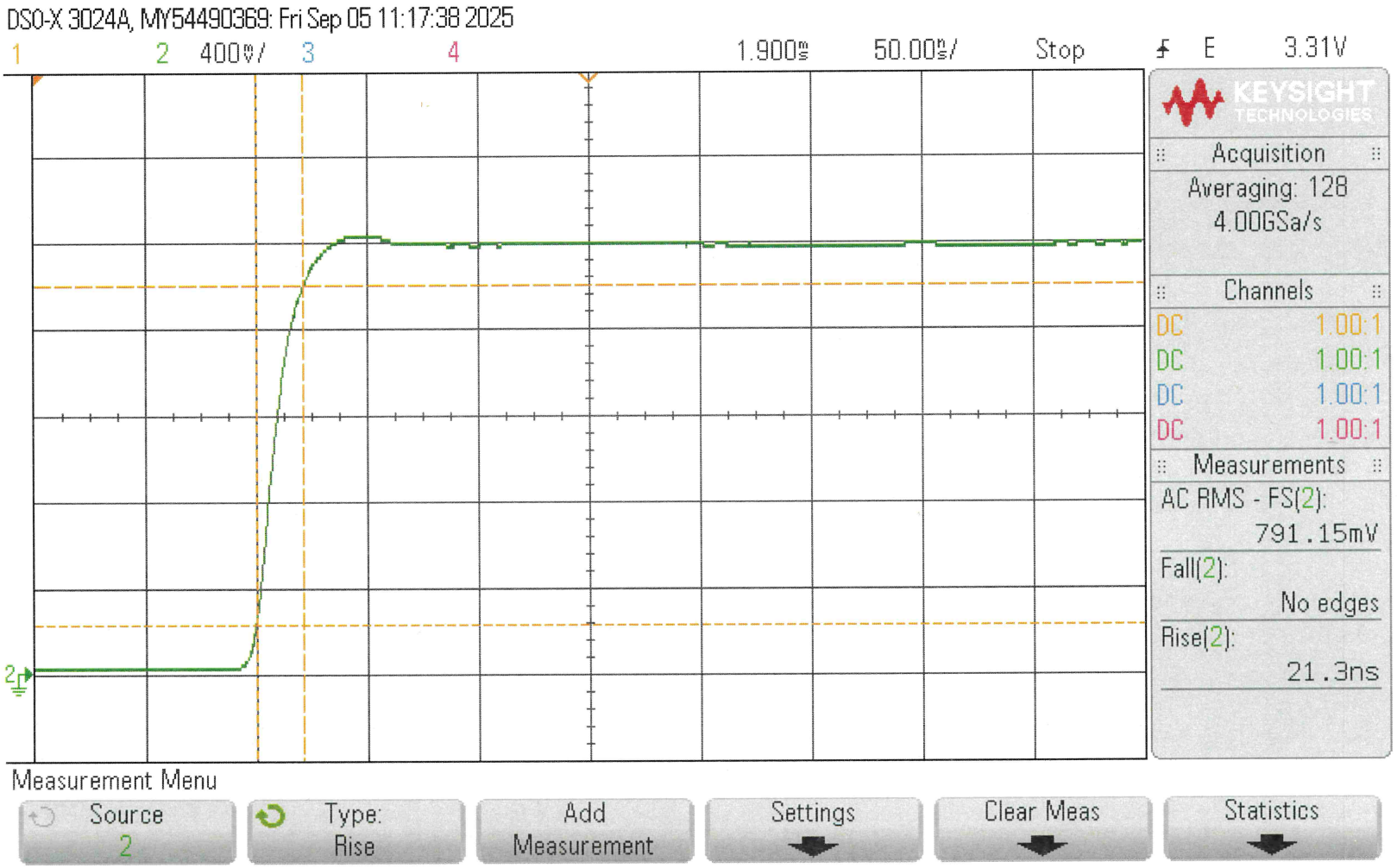
PL 53800

Rise/ setting @ -20 dbm

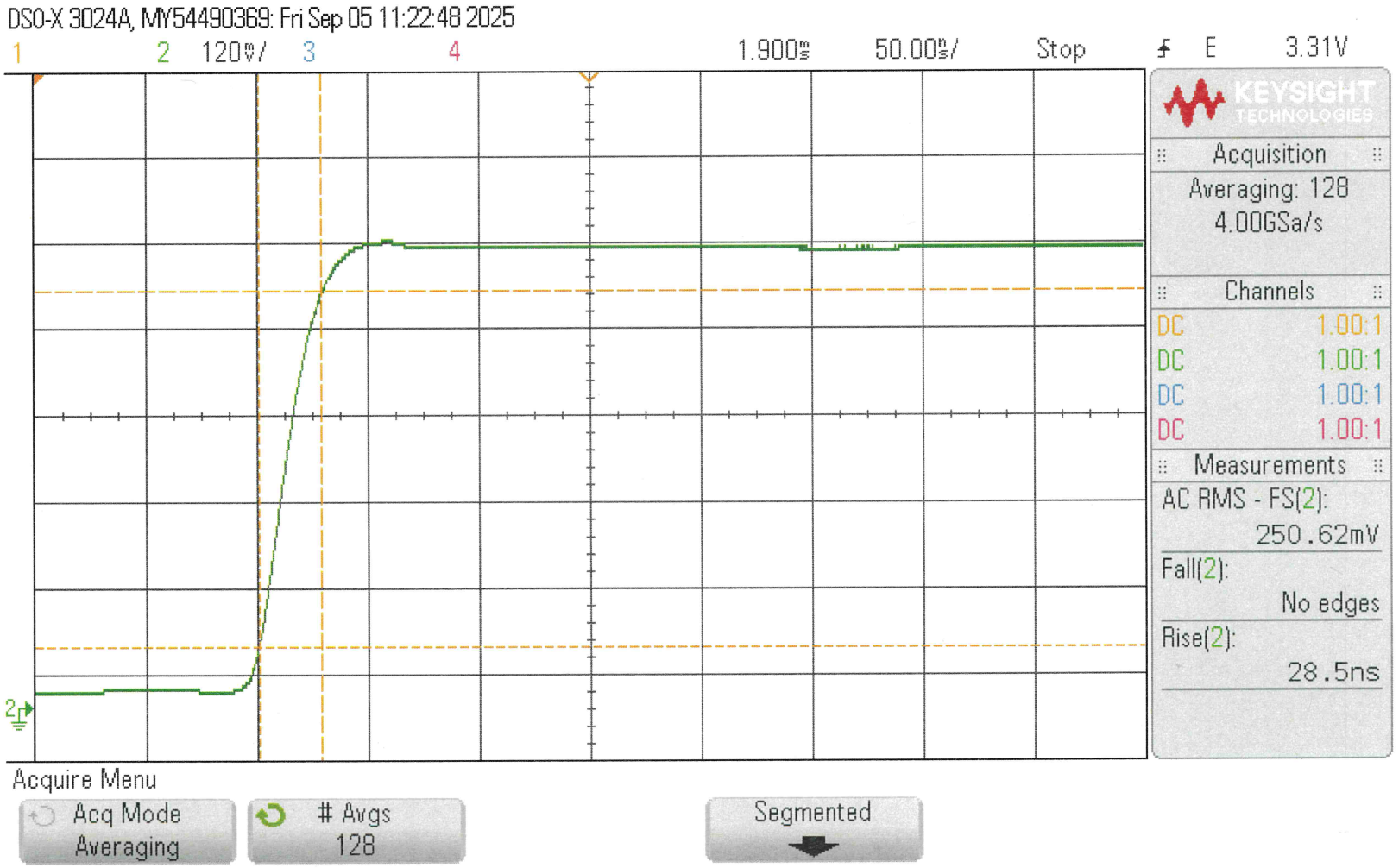


PL53800

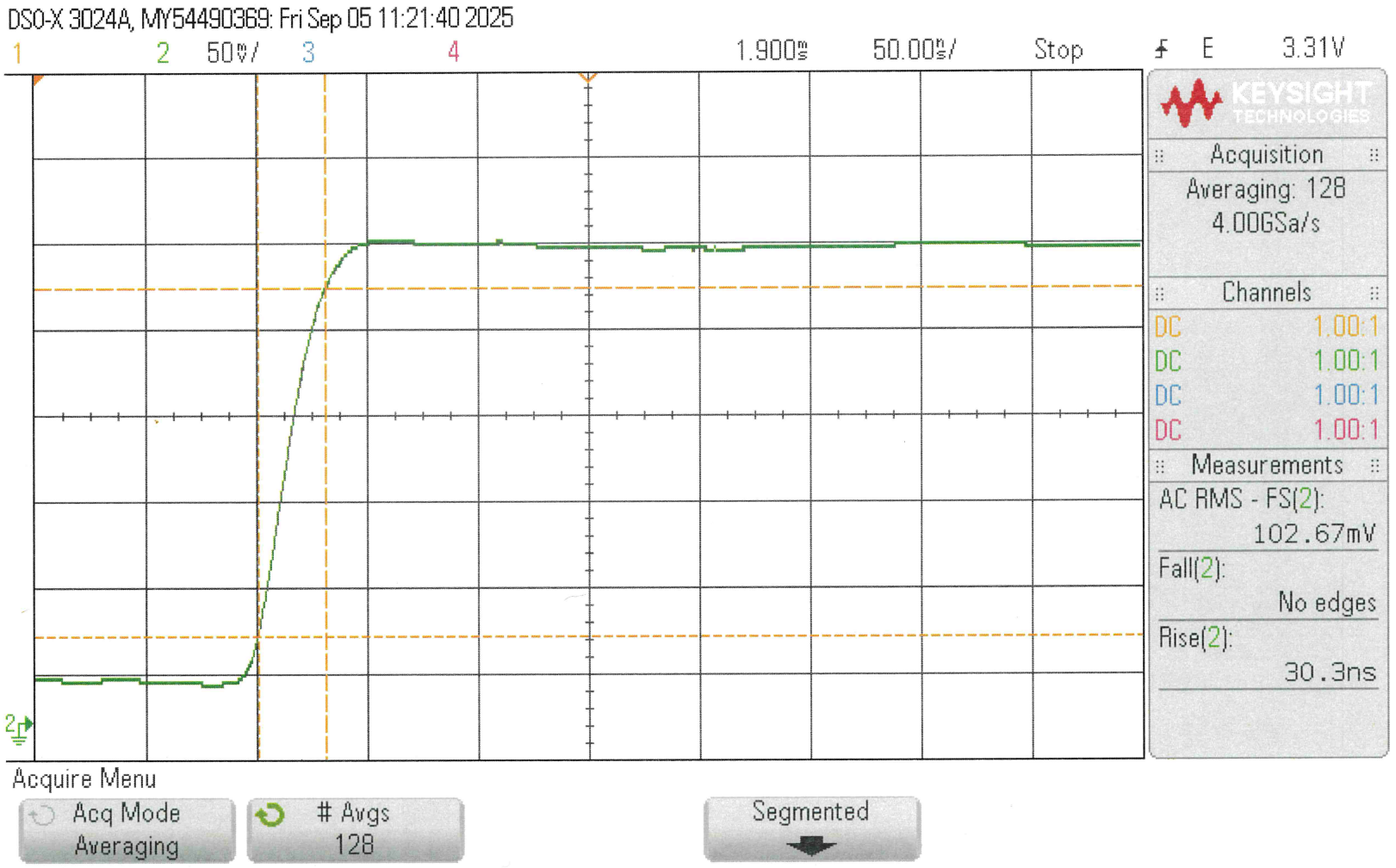
Rise/settling @ -40dbm



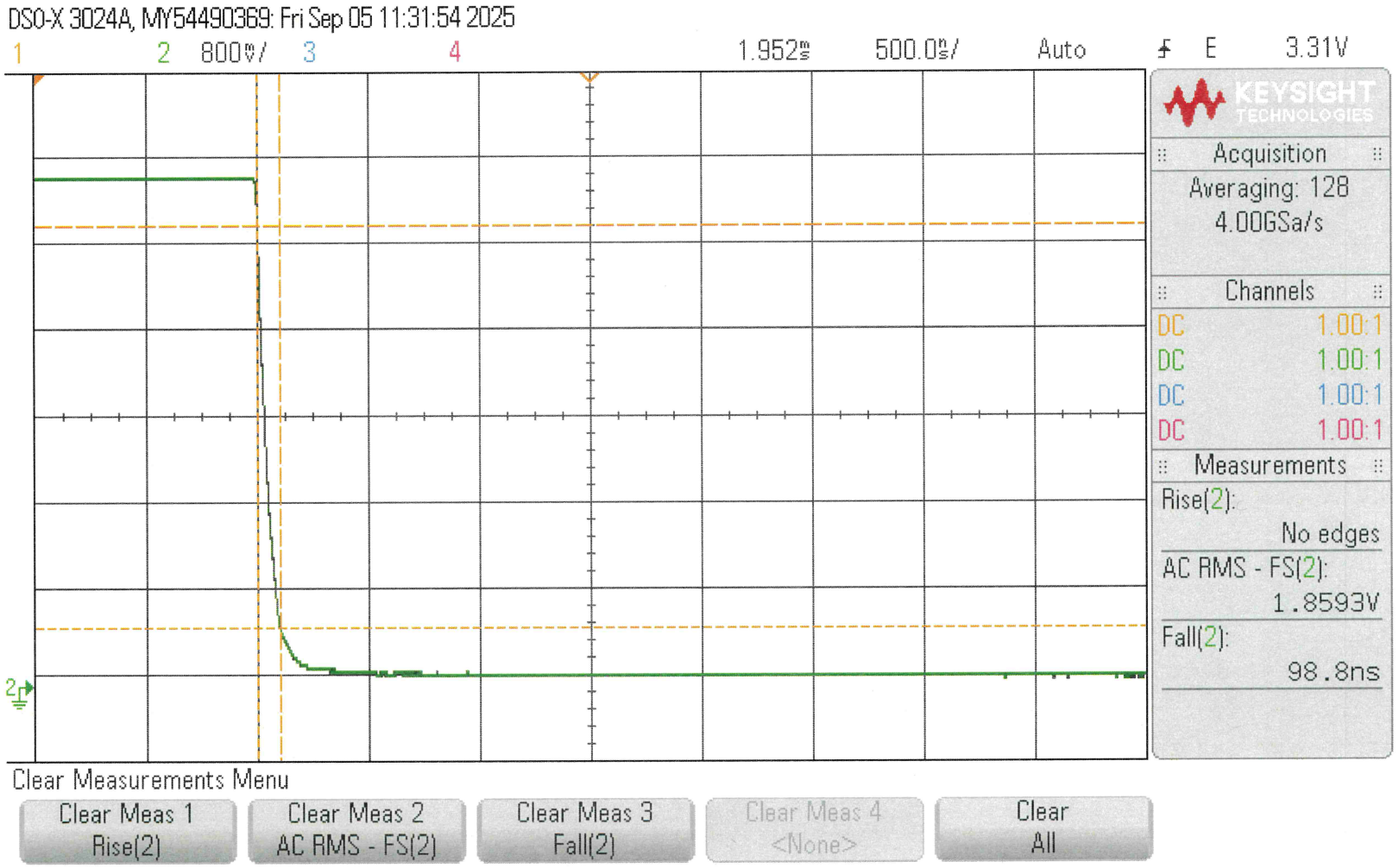
PL53800
Rise/settling @ -60dbm



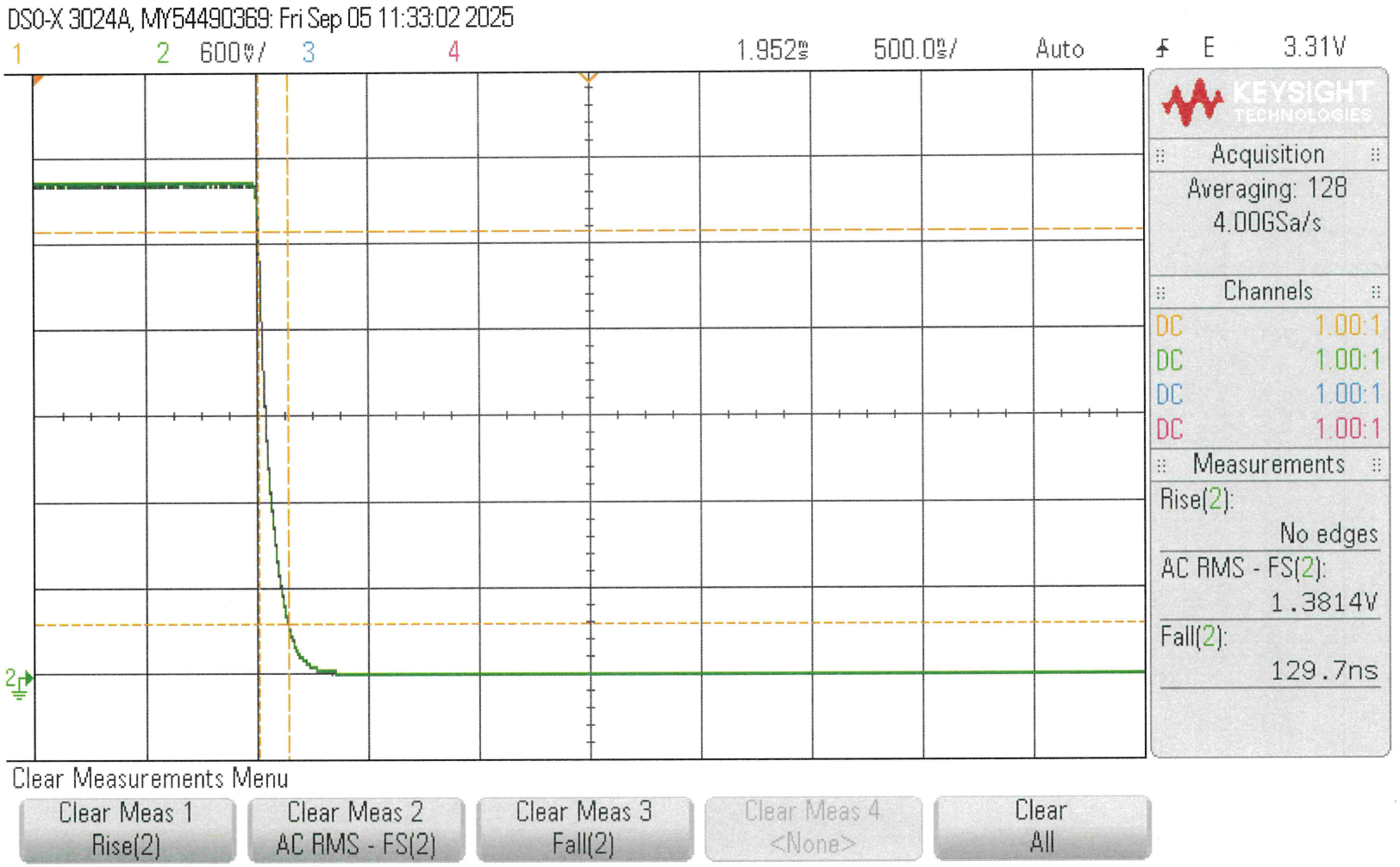
PL53800
Rise/settling @ -65 dbm



PL 53800
Recovery/Fall @ 0 dbm

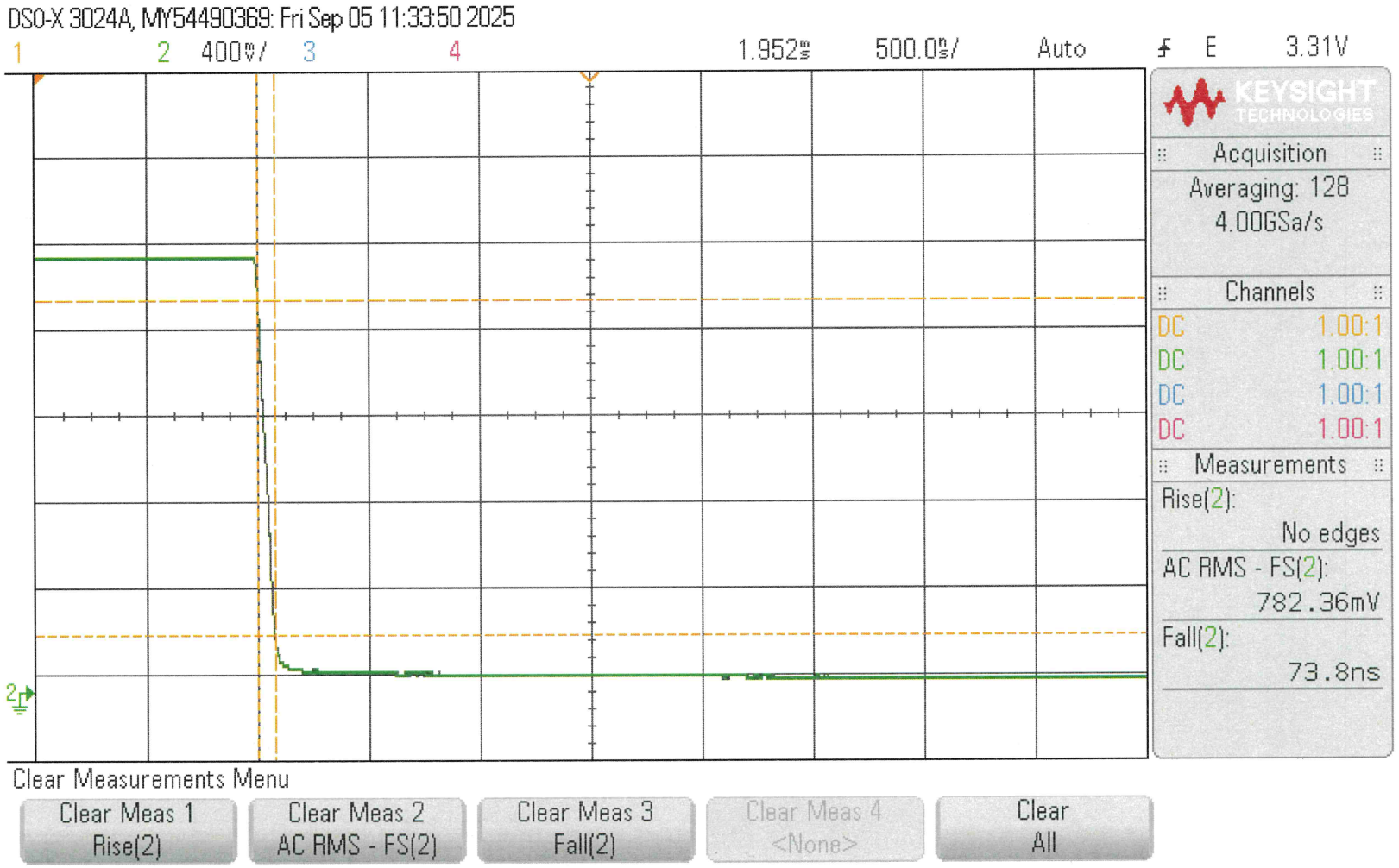


PL53800
Recovery/Fall @ -20 dbm

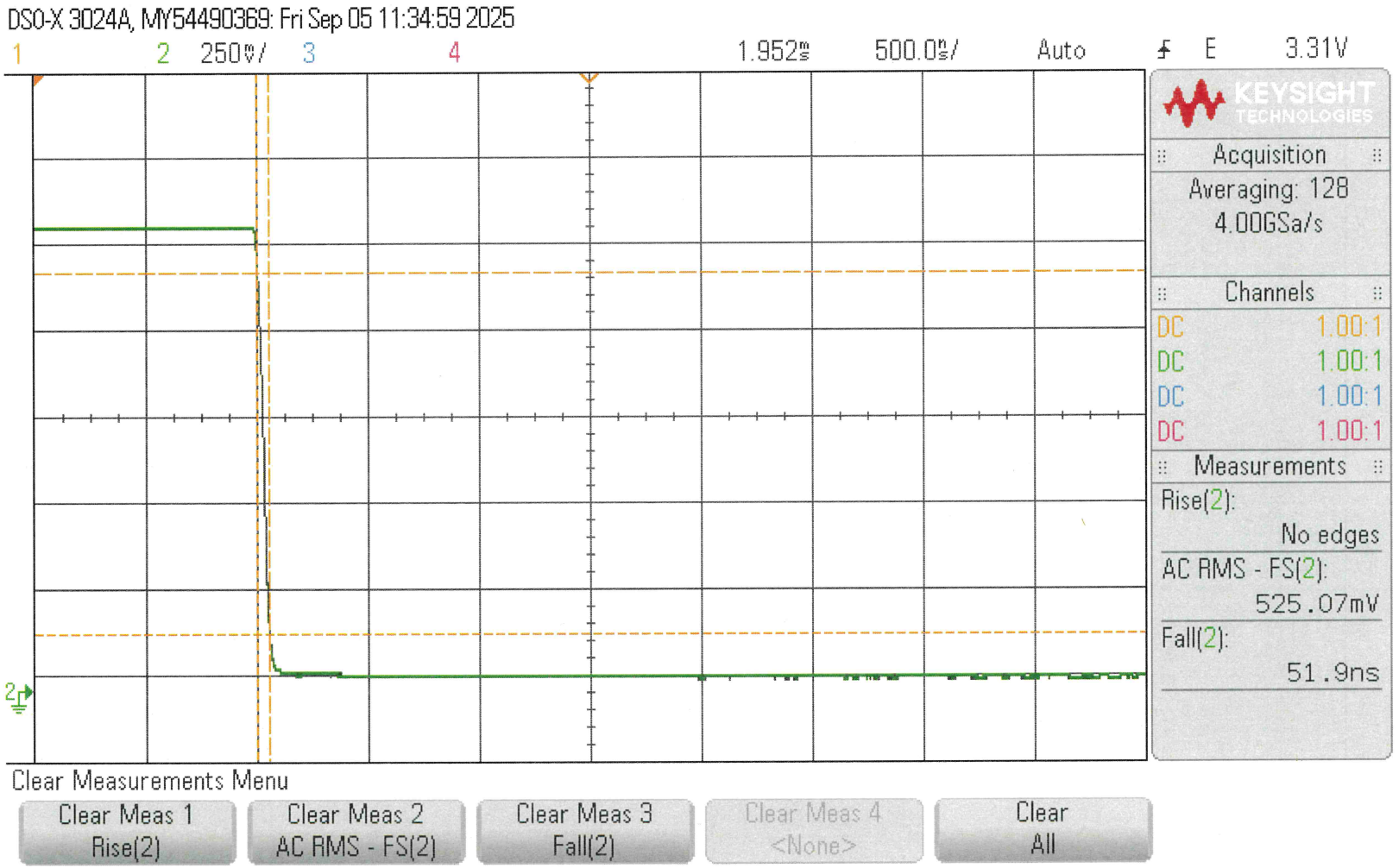


PL53806

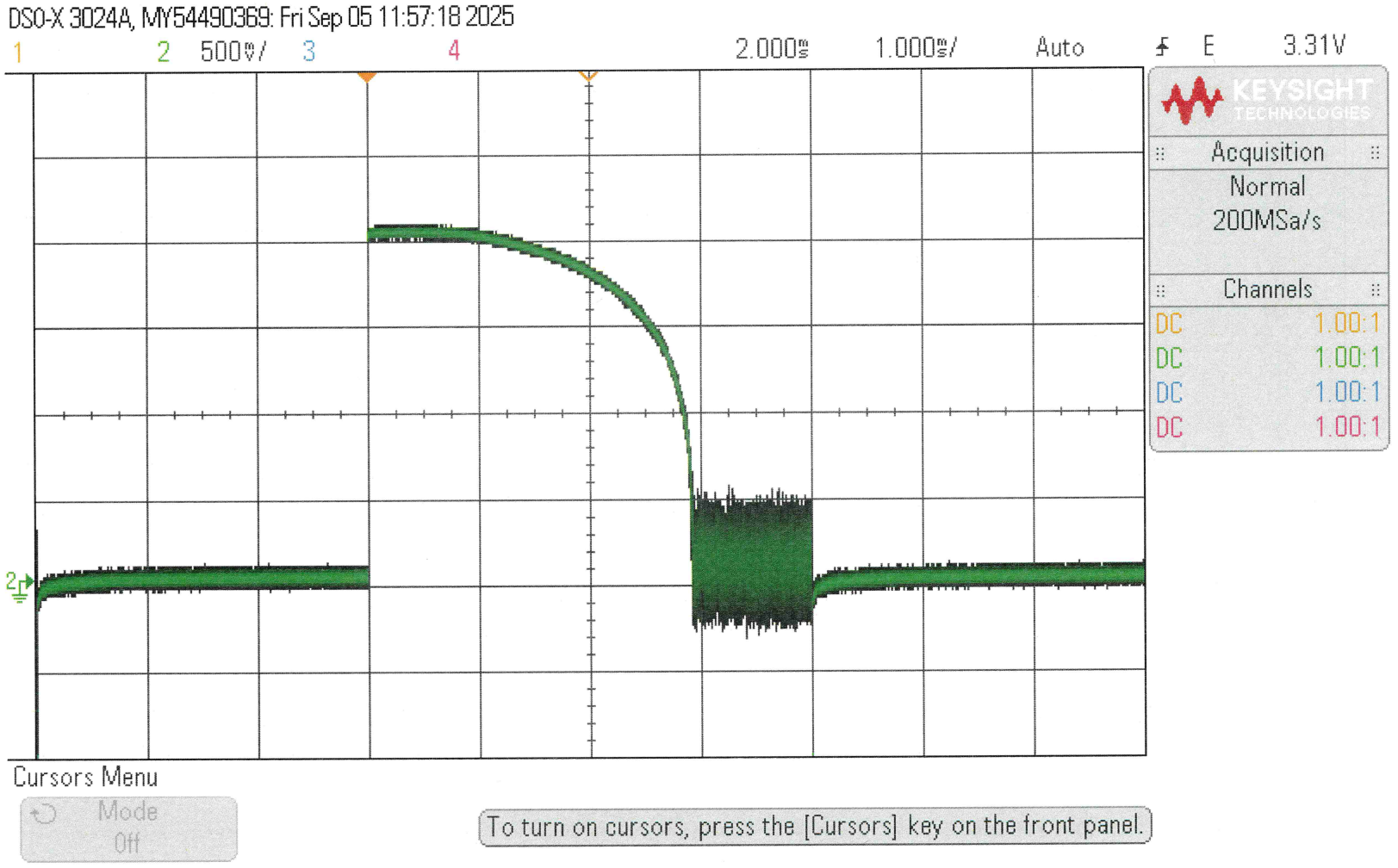
Recovery/Fall @ -40dbm



PL53800
Recovery/Fall @ -50dbm

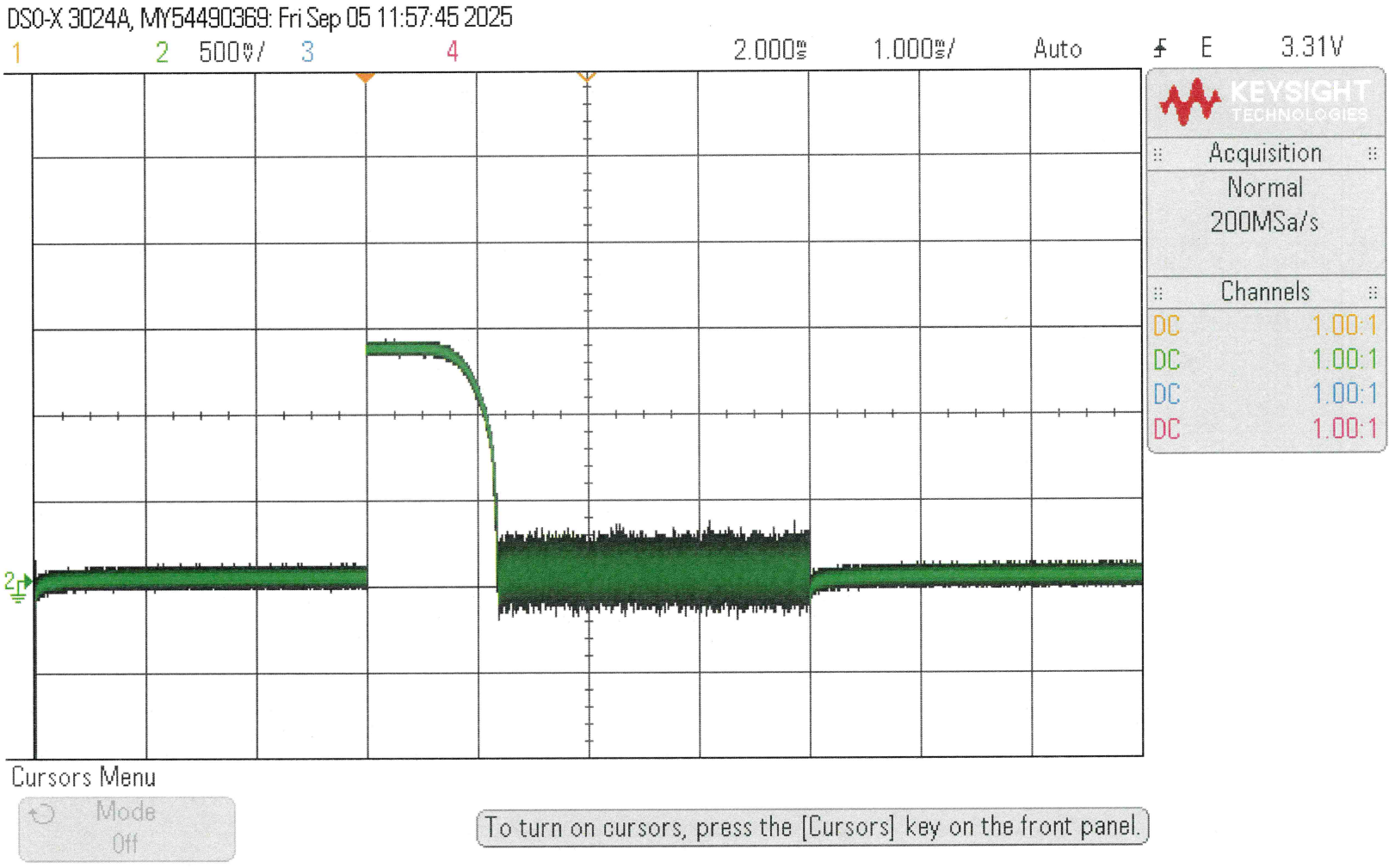


PL53800
CW Immune @ -40dBm

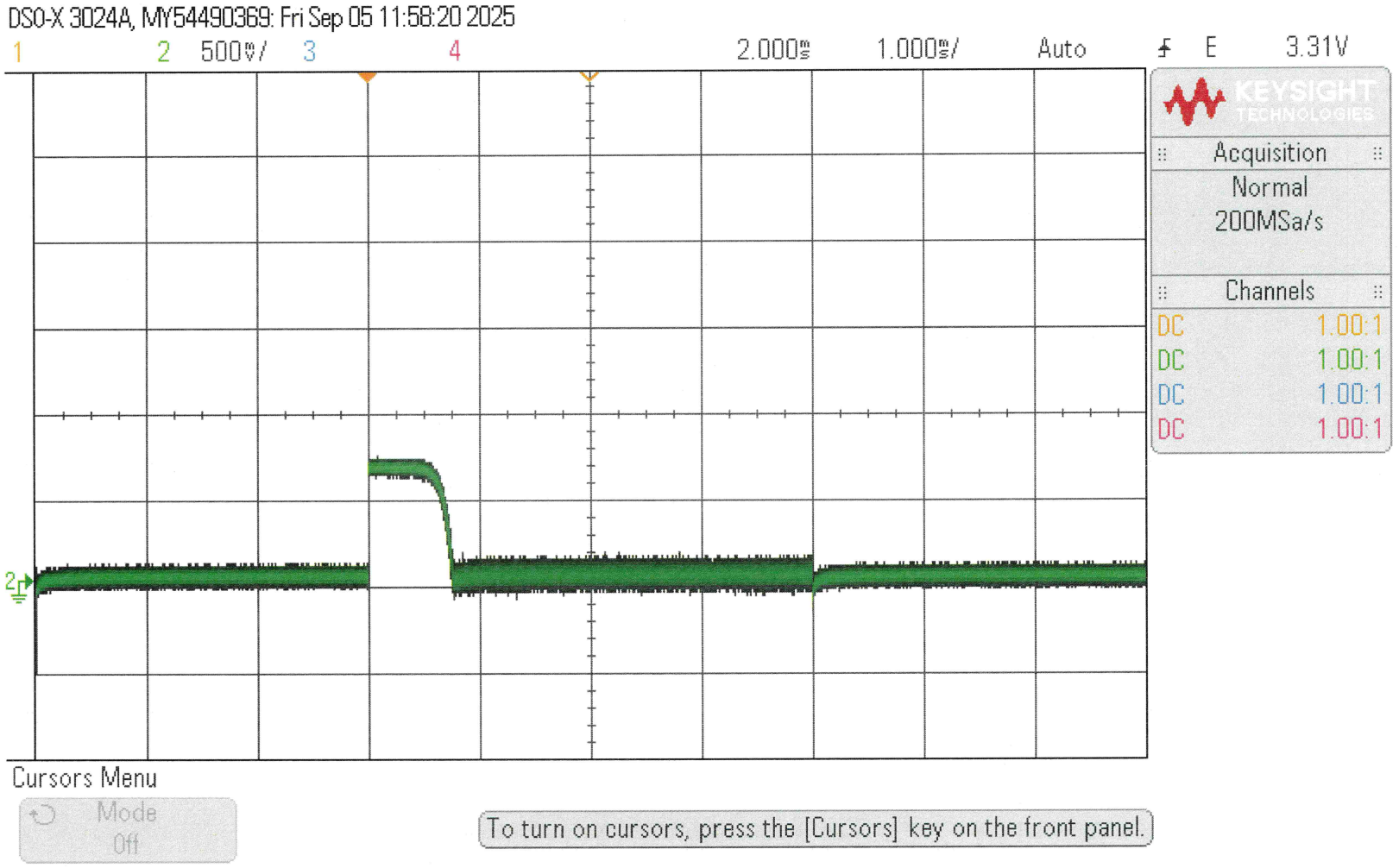


PL53800

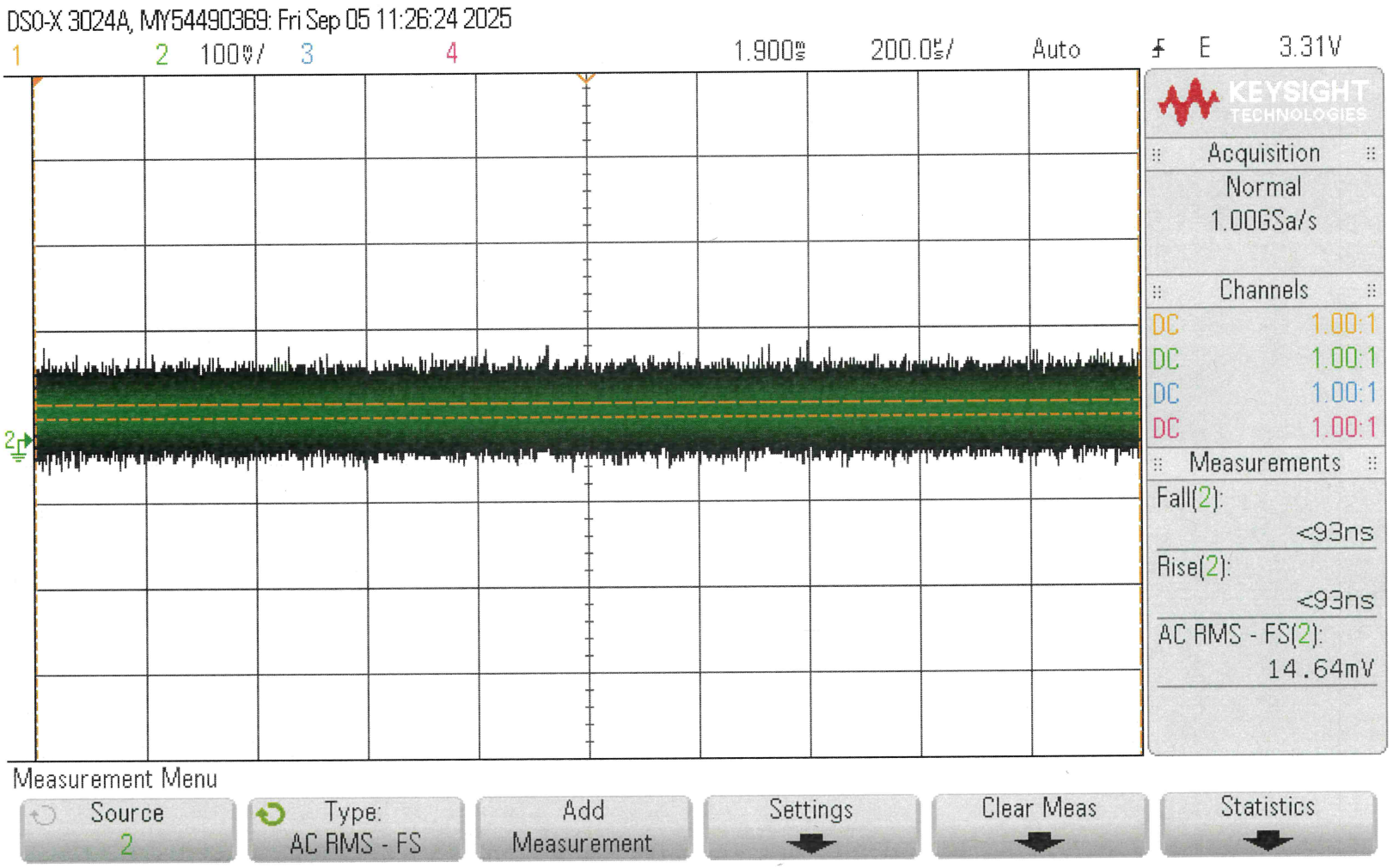
CW Immune @ -50dbm



PL53800
CW Immune @ -60 dbm



PL53800
RMS noise



PL53800

TSS -73 dbm