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

Customer: [redacted]
SO No: [redacted]
Model No: ERDLVA-2G18G-65-70MV-70C
Serial No: PL47179/2440

Tested By: Anton L.
Temperature: -40°C TO +70°C
Date 9/24/2024
Drawing No: 27642020 **Rev:** A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	**2 to 18 GHz**	PMI QA3
2	VSWR:	2.2:1 MAX @ 50 Ω	**1.90 :1 MAX**	
3	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	**Pass**	
4	VIDEO OUT TSS:	-71 dBm MAX	**- 71.6 dBm**	
5	VIDEO OUT Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
6	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	**70.3 mV/dB** **68.8 mV/dB**	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	**0.47 dB** **-0.41 dB**	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	**0.85 dB** **-0.68 dB**	
9	VIDEO OUT Absolute Log Accuracy:	±2.9 dB MAX Over Freq & temp	**1.54 dB** **-1.10 dB**	
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	**40 mV**	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	**22.5 ns**	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	**224.7 ns**	

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13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	**23 ns**	PMI QA3
14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	**0.65 us**	
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	**± 0.75 dB**	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	**Pass**	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	**< 2 dB**	
		Baseline shift 200mV @-40dBm CW	**< 200 mV**	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	**1.39 ms**	
		CW Recovery Time at CW = -40 dBm, ≤ 20 us	**<20 us**	
17	Pulse droop	1dB Max for 300us pulse at or above -65dBm	**<1dB**	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	**100 ns to 300 us**	
19	VIDEO LOAD Impedance:	75 ±1 Ω	**75Ω**	
20	VIDEO driver capability	100 ft RG11 into 75 ohm load	**Pass**	
21	Pulse density capability	10% duty cycle 100 ns, 70% duty cycle 300 us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline	**Pass**	

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22	VIDEO OUT Noise Level (Vp-p):	160 mV max	**152.0 mV**	PMI QA3
23	VIDEO OUT Propagation Delay:	50 ns MAX from RF 50% to 10% video (excluding cable)	**< 50 ns**	
24	Power Supply	+15 V @ 500 mA MAX -15 V @ 100 mA MAX	**+15 V @ 310 mA** **-15 V @ 80 mA**	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	**Pass**	

QA/QC Approval: K. Klamm **Date:** 10-2-24

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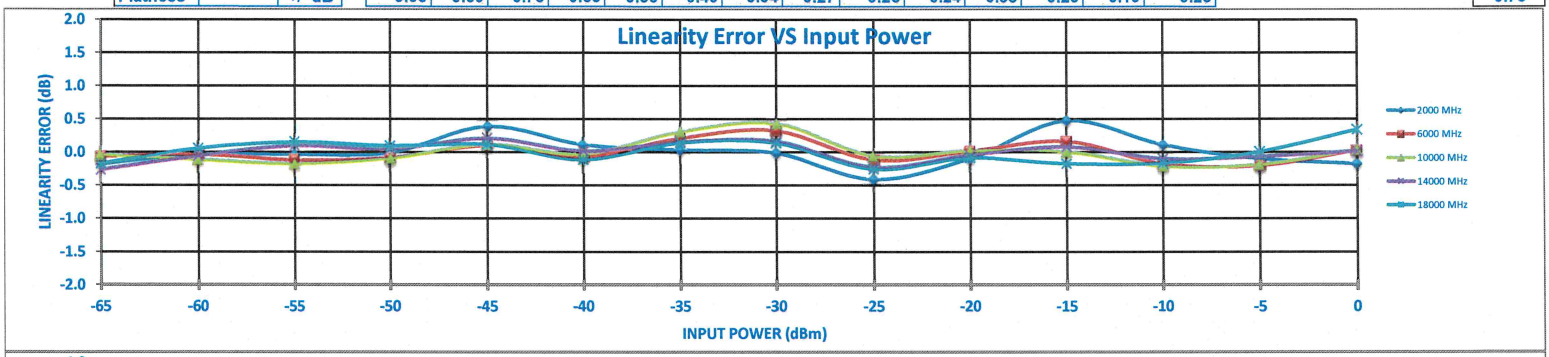
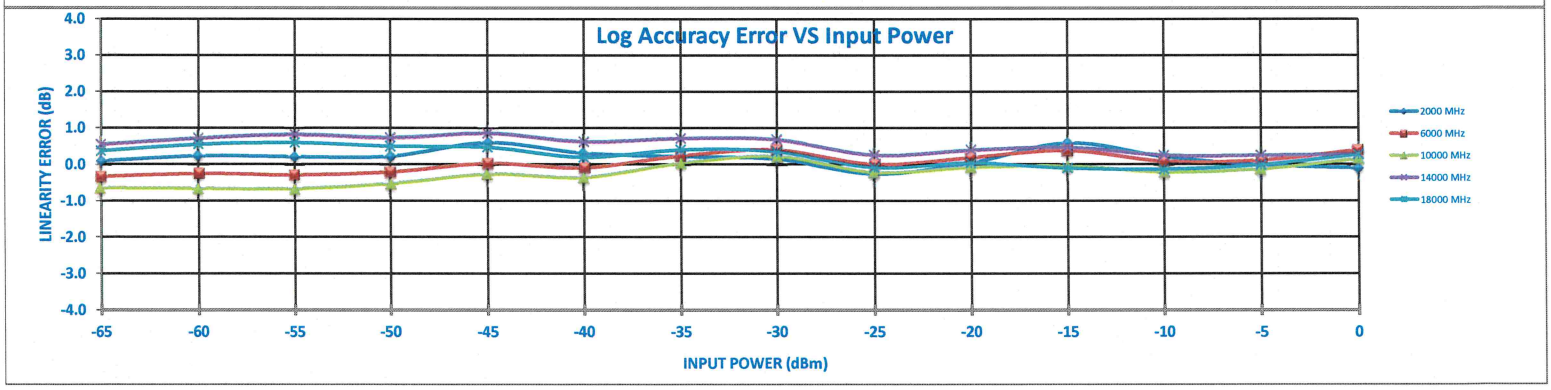
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL47179/2440
DATE: 9/24/2024

Test Temp: 25 °C
Video Offset: 40 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4852	337	694	1040	1388	1762	2089	2430	2773	3092	3460	3846	4167	4499	4840	Measured Value (mV)	
	SLOPE (mV/dB)	69.3	-13	-2	-3	-1	27	7	2	-1	-29	-7	33	7	-7	-12	Error (mV)	
			-0.19	-0.03	-0.04	-0.01	0.38	0.11	0.03	-0.02	-0.41	-0.10	0.47	0.10	-0.10	-0.18	LINEARITY ERROR (dB)	0.47
			0.08	0.22	0.20	0.21	0.59	0.30	0.20	0.14	-0.27	0.03	0.58	0.20	-0.02	-0.11	ACCURACY ERROR (dB)	0.59
6000 MHz	INTERCEPT (mV)	4873	308	661	1006	1359	1723	2062	2432	2791	3111	3471	3832	4159	4508	4875	Measured Value (mV)	
	SLOPE (mV/dB)	70.2	-4	-2	-8	-6	7	-4	15	23	-8	1	11	-12	-14	2	Error (mV)	
			-0.06	-0.03	-0.11	-0.08	0.10	-0.06	0.21	0.33	-0.11	0.02	0.16	-0.18	-0.20	0.03	LINEARITY ERROR (dB)	0.33
			-0.33	-0.25	-0.29	-0.21	0.03	-0.09	0.23	0.40	0.00	0.19	0.38	0.09	0.11	0.39	ACCURACY ERROR (dB)	0.40
10000 MHz	INTERCEPT (mV)	4856	286	632	979	1336	1702	2043	2418	2778	3095	3452	3802	4138	4491	4858	Measured Value (mV)	
	SLOPE (mV/dB)	70.3	-3	-8	-12	-7	8	-2	22	30	-4	2	0	-16	-13	2	Error (mV)	
			-0.04	-0.11	-0.17	-0.09	0.12	-0.03	0.31	0.43	-0.06	0.02	0.00	-0.21	-0.19	0.03	LINEARITY ERROR (dB)	0.43
			-0.65	-0.67	-0.68	-0.54	-0.27	-0.37	0.03	0.21	-0.23	-0.09	-0.05	-0.22	-0.14	0.15	ACCURACY ERROR (dB)	-0.68
14000 MHz	INTERCEPT (mV)	4866	369	728	1083	1424	1780	2111	2465	2810	3128	3485	3838	4170	4517	4867	Measured Value (mV)	
	SLOPE (mV/dB)	68.9	-18	-4	7	3	15	1	10	11	-16	-3	5	-7	-5	1	Error (mV)	
			-0.27	-0.06	0.09	0.04	0.21	0.01	0.15	0.16	-0.23	-0.04	0.08	-0.10	-0.07	0.01	LINEARITY ERROR (dB)	-0.27
			0.54	0.71	0.82	0.73	0.85	0.61	0.71	0.67	0.25	0.39	0.47	0.24	0.24	0.28	ACCURACY ERROR (dB)	0.85
18000 MHz	INTERCEPT (mV)	4843	356	716	1067	1407	1753	2081	2443	2787	3104	3460	3798	4143	4499	4866	Measured Value (mV)	
	SLOPE (mV/dB)	68.8	-12	3	10	6	8	-8	9	9	-18	-6	-12	-12	0	23	Error (mV)	
			-0.18	0.05	0.15	0.09	0.11	-0.12	0.14	0.13	-0.26	-0.09	-0.18	-0.17	0.00	0.33	LINEARITY ERROR (dB)	0.33
			0.36	0.54	0.59	0.48	0.46	0.18	0.39	0.34	-0.10	0.03	-0.11	-0.14	-0.02	0.26	ACCURACY ERROR (dB)	0.59
	Flatness	+/- dB	0.60	0.69	0.75	0.63	0.56	0.49	0.34	0.27	0.26	0.24	0.35	0.23	0.19	0.25		0.75





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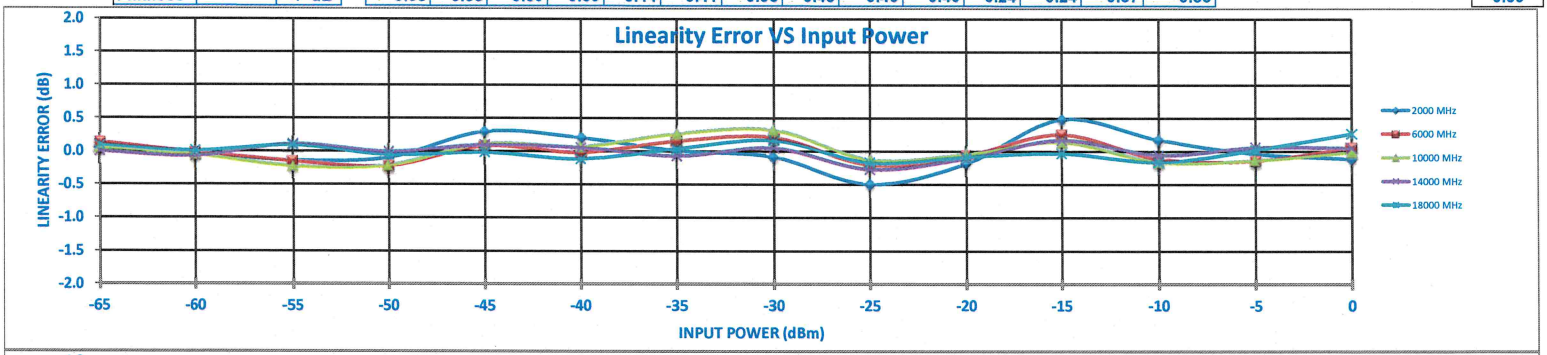
ERDLVA-2G18G-65-70MV-70C

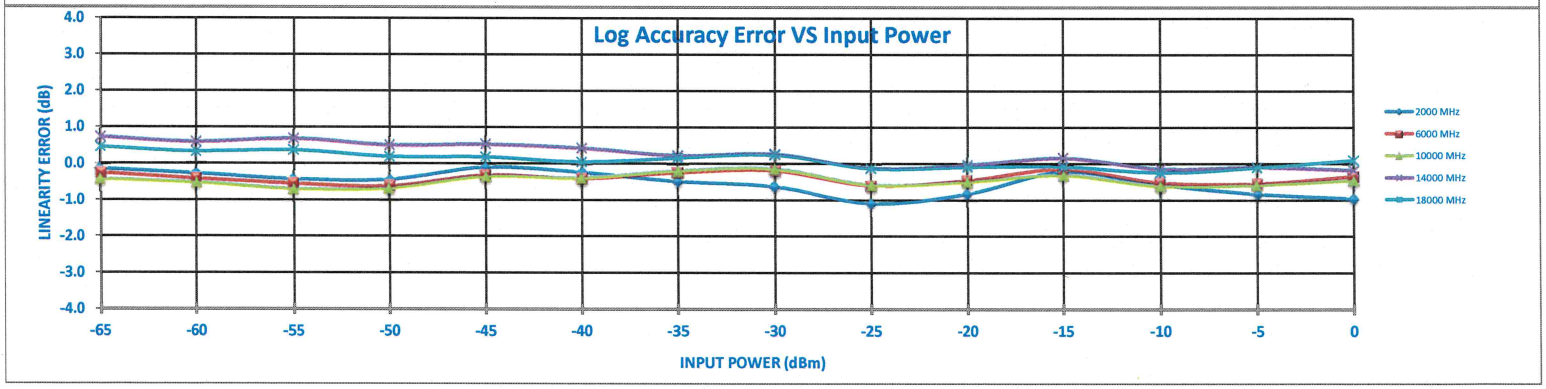
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL47179/2440
DATE: 9/24/2024

Test Temp: -40 °C
Video Offset: 21 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4760	259	600	939	1288	1662	2002	2335	2675	2993	3361	3754	4079	4411	4752	Measured Value (mV)	
	SLOPE (mV/dB)	69.3	3	-2	-10	-7	20	14	0	-6	-35	-13	33	12	-3	-8	Error (mV)	
			0.05	-0.03	-0.14	-0.10	0.29	0.20	0.01	-0.09	-0.50	-0.19	0.48	0.17	-0.04	-0.12	LINEARITY ERROR (dB)	-0.50
			-0.16	-0.29	-0.44	-0.46	-0.11	-0.26	-0.50	-0.64	-1.10	-0.84	-0.23	-0.59	-0.84	-0.97	ACCURACY ERROR (dB)	-1.10
6000 MHz	INTERCEPT (mV)	4792	252	591	932	1277	1648	1991	2353	2707	3028	3388	3760	4084	4432	4796	Measured Value (mV)	
	SLOPE (mV/dB)	70.0	10	-1	-10	-15	6	-1	11	15	-14	-4	18	-8	-10	4	Error (mV)	
			0.14	-0.02	-0.15	-0.22	0.08	-0.02	0.16	0.21	-0.20	-0.06	0.26	-0.11	-0.14	0.06	LINEARITY ERROR (dB)	0.26
			-0.26	-0.41	-0.54	-0.61	-0.31	-0.41	-0.24	-0.19	-0.60	-0.46	-0.14	-0.51	-0.54	-0.34	ACCURACY ERROR (dB)	-0.61
10000 MHz	INTERCEPT (mV)	4789	240	583	921	1272	1645	1992	2356	2710	3029	3385	3748	4077	4429	4788	Measured Value (mV)	
	SLOPE (mV/dB)	70.0	4	-4	-16	-15	8	5	19	22	-9	-3	10	-11	-9	-1	Error (mV)	
			0.05	-0.05	-0.22	-0.21	0.11	0.07	0.27	0.32	-0.13	-0.04	0.14	-0.16	-0.14	-0.01	LINEARITY ERROR (dB)	0.32
			-0.43	-0.53	-0.70	-0.69	-0.36	-0.40	-0.20	-0.14	-0.59	-0.50	-0.31	-0.61	-0.59	-0.46	ACCURACY ERROR (dB)	-0.70
14000 MHz	INTERCEPT (mV)	4804	321	661	1018	1355	1707	2049	2385	2738	3061	3417	3781	4110	4463	4807	Measured Value (mV)	
	SLOPE (mV/dB)	69.0	0	-5	7	-1	7	4	-5	3	-19	-7	12	-4	4	3	Error (mV)	
			0.00	-0.07	0.11	-0.01	0.10	0.06	-0.07	0.05	-0.27	-0.11	0.17	-0.06	0.06	0.05	LINEARITY ERROR (dB)	-0.27
			0.73	0.59	0.69	0.50	0.53	0.41	0.21	0.26	-0.13	-0.04	0.16	-0.14	-0.10	-0.19	ACCURACY ERROR (dB)	0.73
18000 MHz	INTERCEPT (mV)	4808	301	642	995	1332	1682	2022	2380	2736	3060	3413	3764	4102	4462	4826	Measured Value (mV)	
	SLOPE (mV/dB)	69.4	6	0	6	-4	-1	-8	2	11	-12	-6	-2	-11	1	18	Error (mV)	
			0.09	0.00	0.09	-0.06	-0.02	-0.12	0.03	0.16	-0.17	-0.09	-0.03	-0.16	0.02	0.26	LINEARITY ERROR (dB)	0.26
			0.44	0.31	0.36	0.17	0.17	0.03	0.14	0.23	-0.14	-0.10	-0.09	-0.26	-0.11	0.09	ACCURACY ERROR (dB)	0.44
	Flatness	+/- dB	0.58	0.56	0.69	0.59	0.44	0.41	0.36	0.45	0.49	0.40	0.24	0.24	0.37	0.53		0.69





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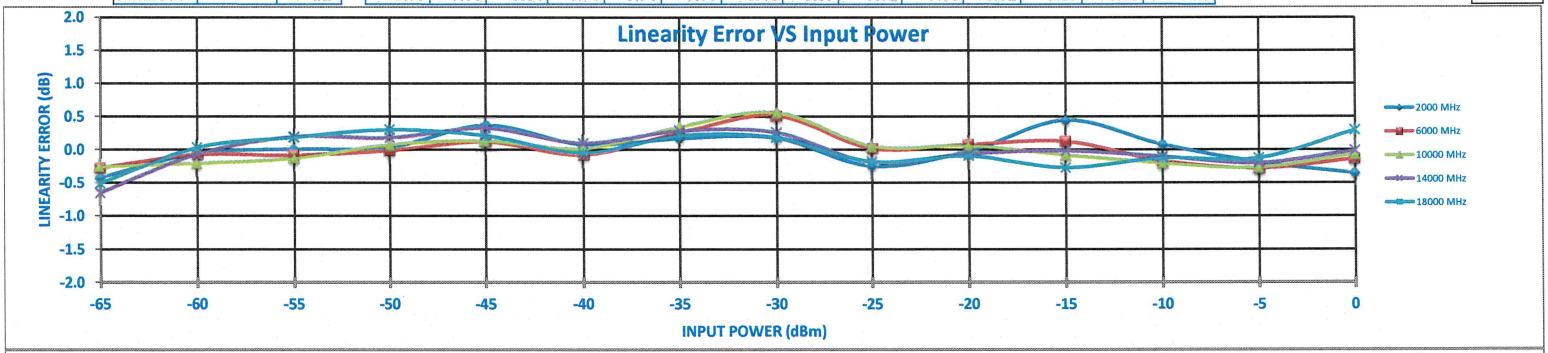
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

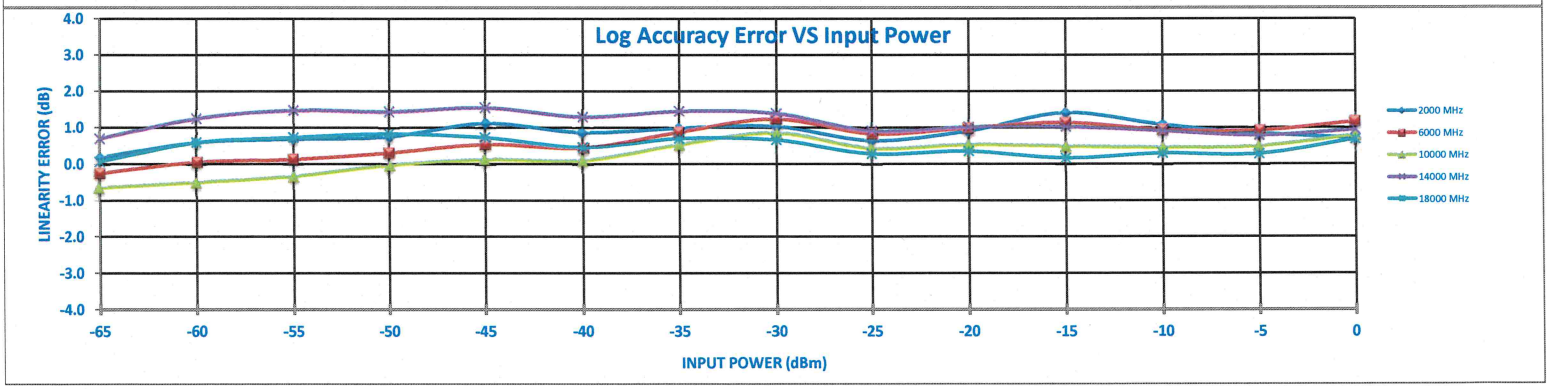
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL47179/2440
DATE: 9/24/2024

Test Temp: 70 °C
Video Offset: 63 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4884	337	710	1062	1411	1782	2109	2463	2811	3129	3492	3872	4194	4523	4859	Measured Value (mV)	
	SLOPE (mV/dB)	69.5	-30	-4	0	2	25	5	11	12	-18	-2	31	5	-13	-25	Error (mV)	
			-0.43	-0.06	0.01	0.03	0.37	0.07	0.16	0.17	-0.25	-0.03	0.44	0.07	-0.19	-0.36	LINEARITY ERROR (dB)	0.44
			0.17	0.57	0.68	0.73	1.11	0.85	0.98	1.02	0.63	0.89	1.40	1.07	0.83	0.70	ACCURACY ERROR (dB)	1.40
6000 MHz	INTERCEPT (mV)	4901	308	674	1025	1382	1743	2081	2456	2826	3143	3499	3854	4185	4529	4891	Measured Value (mV)	
	SLOPE (mV/dB)	70.4	-19	-5	-6	-1	8	-5	18	36	1	6	9	-12	-20	-10	Error (mV)	
			-0.28	-0.07	-0.08	-0.01	0.12	-0.08	0.25	0.51	0.02	0.08	0.12	-0.17	-0.28	-0.14	LINEARITY ERROR (dB)	0.51
			-0.25	0.05	0.14	0.31	0.54	0.44	0.88	1.24	0.83	0.99	1.14	0.94	0.92	1.17	ACCURACY ERROR (dB)	1.24
10000 MHz	INTERCEPT (mV)	4870	280	635	992	1358	1714	2057	2432	2799	3115	3467	3809	4152	4499	4865	Measured Value (mV)	
	SLOPE (mV/dB)	70.3	-16	-15	-9	5	9	1	24	39	4	4	-6	-14	-19	-5	Error (mV)	
			-0.26	-0.21	-0.13	0.07	0.13	0.01	0.34	0.56	0.05	0.06	-0.08	-0.20	-0.27	-0.07	LINEARITY ERROR (dB)	0.56
			-0.66	-0.51	-0.34	-0.03	0.12	0.10	0.53	0.85	0.43	0.53	0.49	0.46	0.49	0.79	ACCURACY ERROR (dB)	0.85
14000 MHz	INTERCEPT (mV)	4876	373	756	1117	1459	1812	2139	2495	2836	3148	3500	3846	4183	4519	4875	Measured Value (mV)	
	SLOPE (mV/dB)	68.6	-45	-5	13	12	22	6	19	18	-13	-4	-1	-7	-14	-1	Error (mV)	
			-0.66	-0.07	0.19	0.18	0.33	0.09	0.28	0.26	-0.20	-0.06	-0.02	-0.10	-0.21	-0.01	LINEARITY ERROR (dB)	-0.66
			0.69	1.24	1.47	1.43	1.54	1.28	1.44	1.39	0.91	1.01	1.02	0.91	0.78	0.94	ACCURACY ERROR (dB)	1.54
18000 MHz	INTERCEPT (mV)	4837	329	710	1065	1417	1755	2081	2443	2785	3104	3454	3786	4140	4484	4857	Measured Value (mV)	
	SLOPE (mV/dB)	68.8	-35	2	13	20	14	-4	14	12	-13	-7	-19	-9	-9	20	Error (mV)	
			-0.51	0.02	0.18	0.30	0.21	-0.05	0.21	0.18	-0.19	-0.10	-0.27	-0.13	-0.13	0.29	LINEARITY ERROR (dB)	-0.51
			0.05	0.57	0.72	0.82	0.72	0.44	0.69	0.65	0.27	0.34	0.15	0.28	0.27	0.68	ACCURACY ERROR (dB)	0.82
	Flatness	+/- dB	0.67	0.88	0.91	0.73	0.71	0.59	0.46	0.37	0.32	0.33	0.62	0.39	0.33	0.25		0.91





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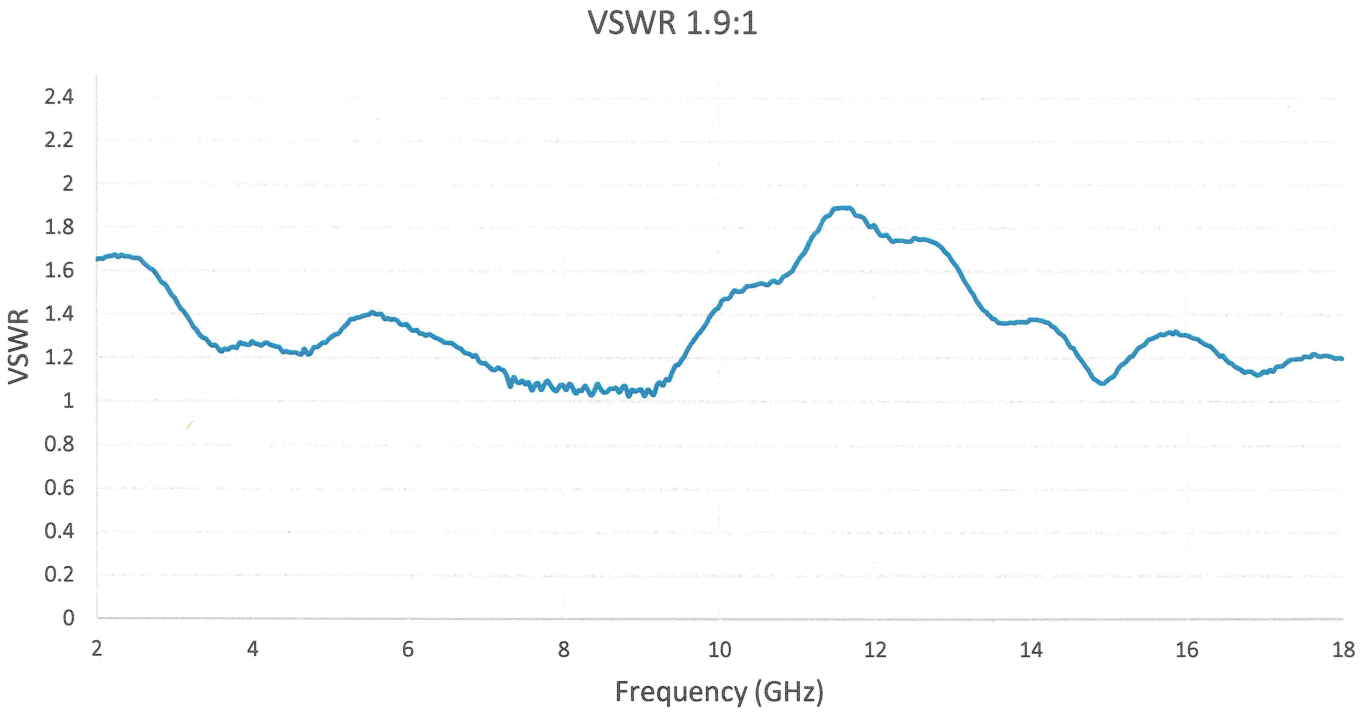

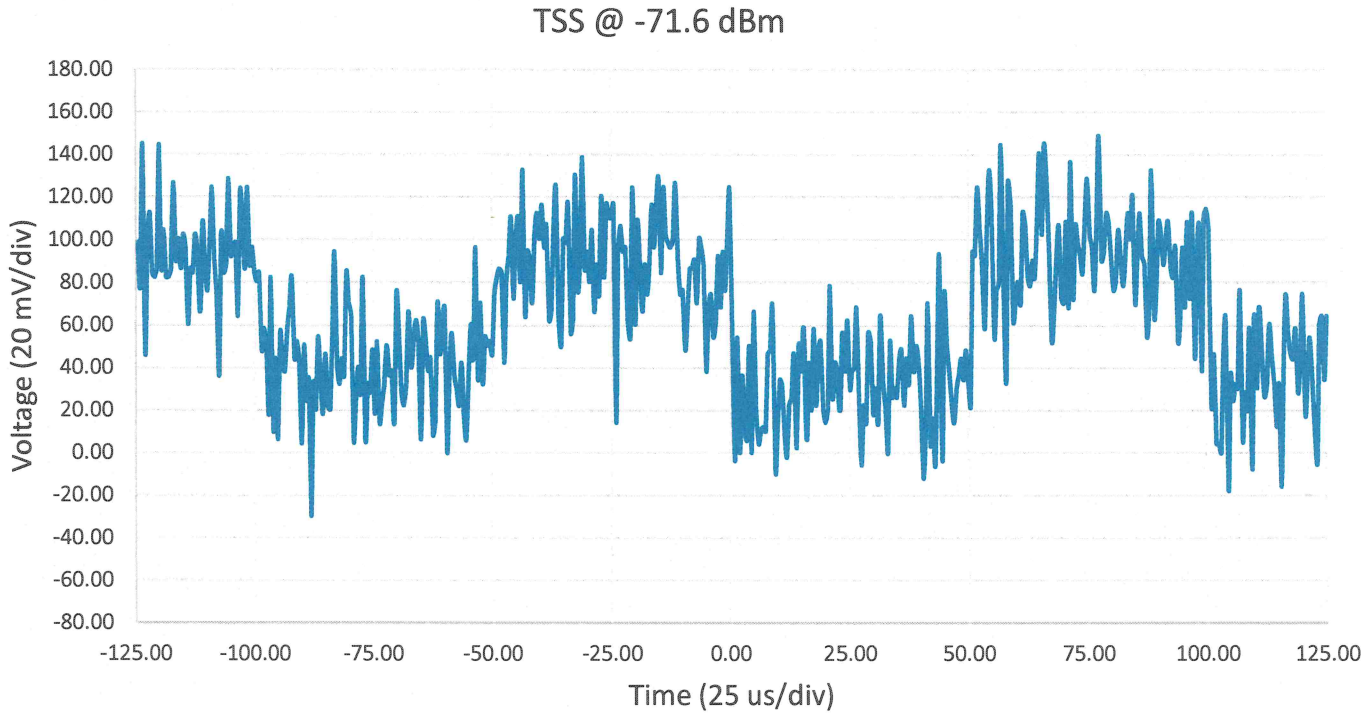

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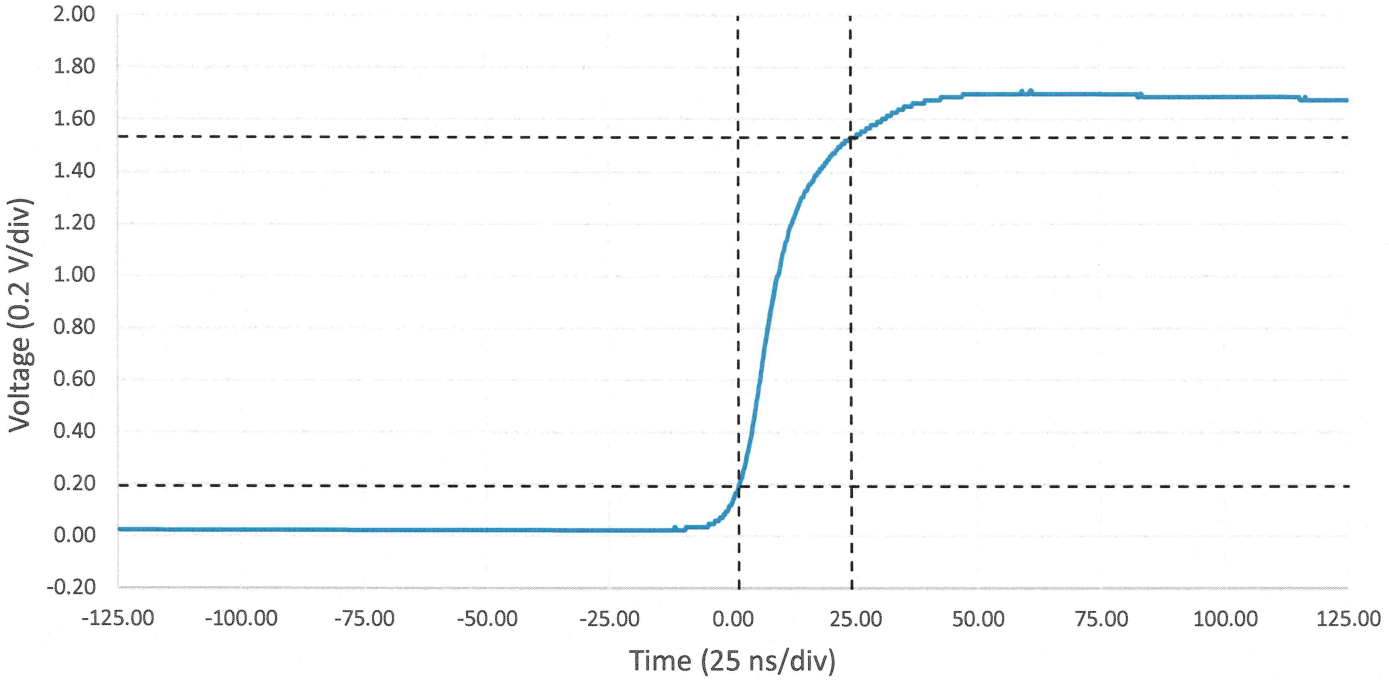
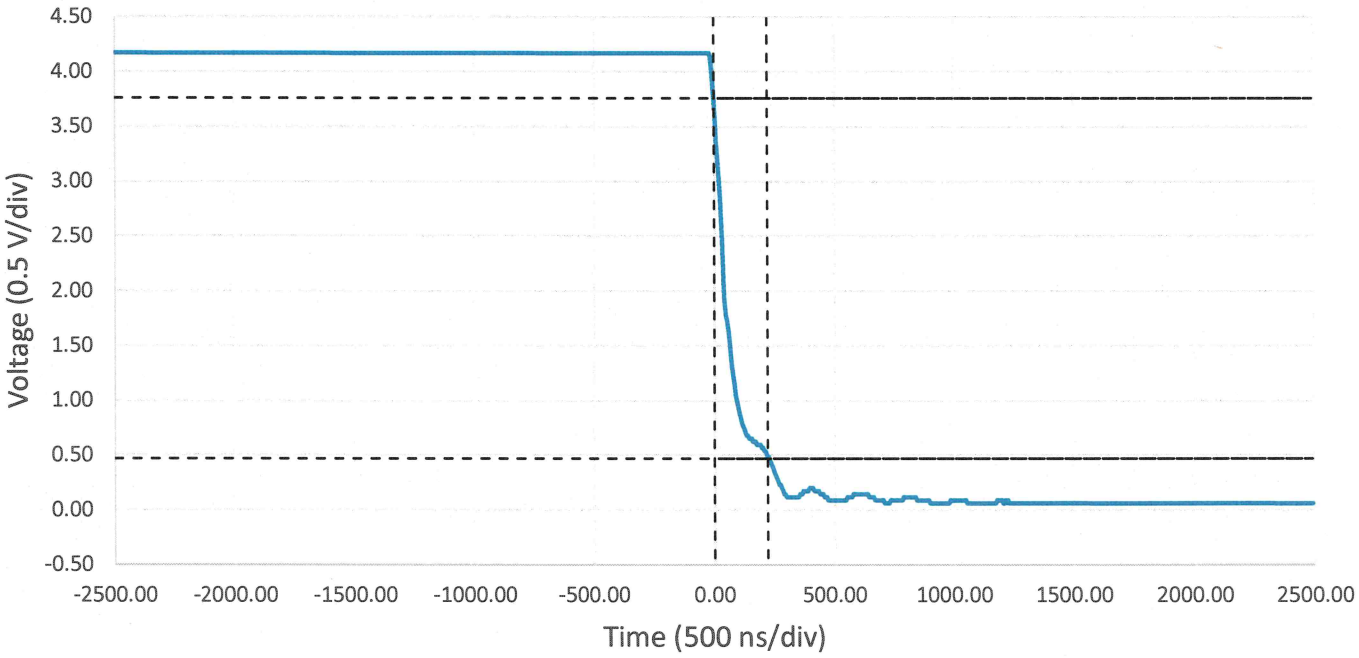
Rise time 22.5 ns



Fall time 224.7 ns



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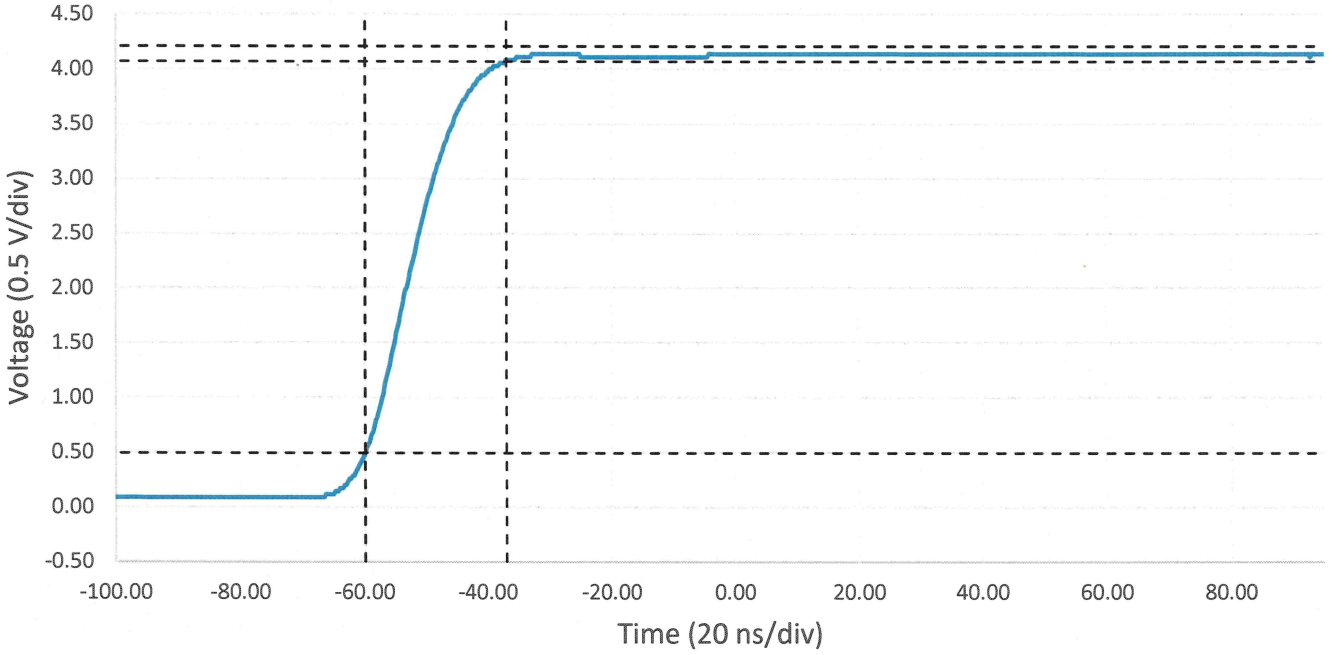
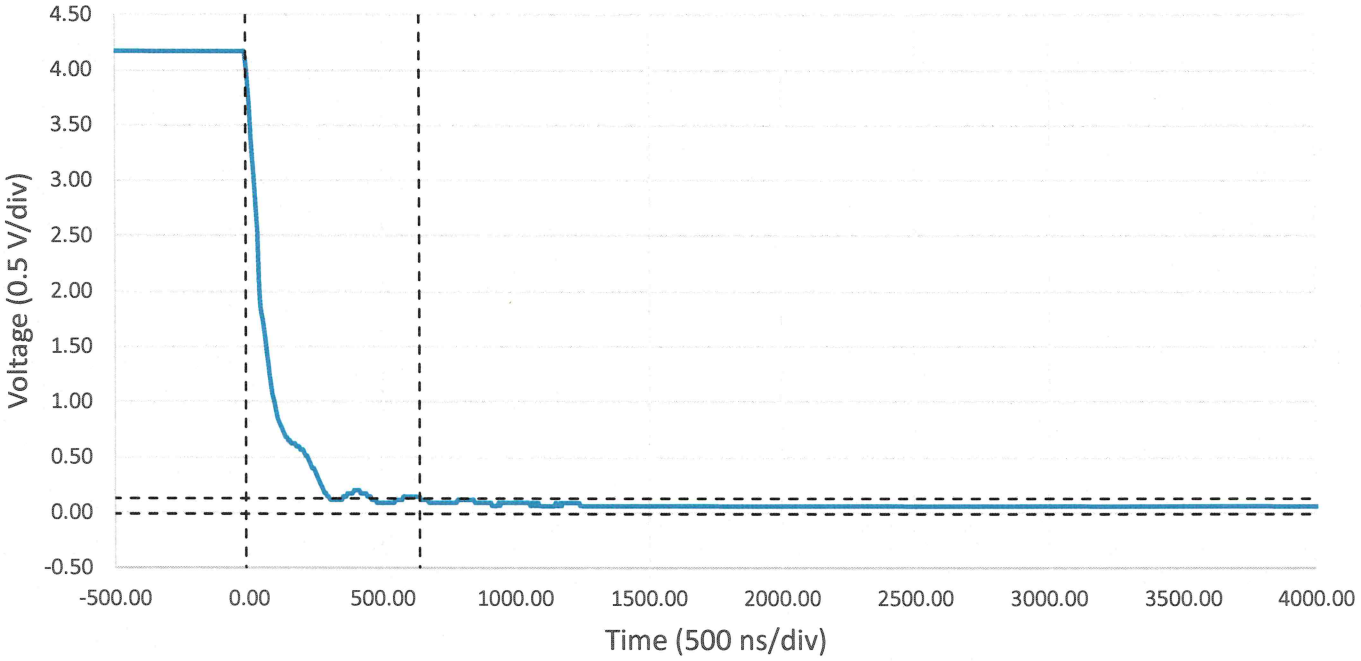
PL47179/2440

Settle time 23 ns



Recovery time 650 ns



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Summary Data
For
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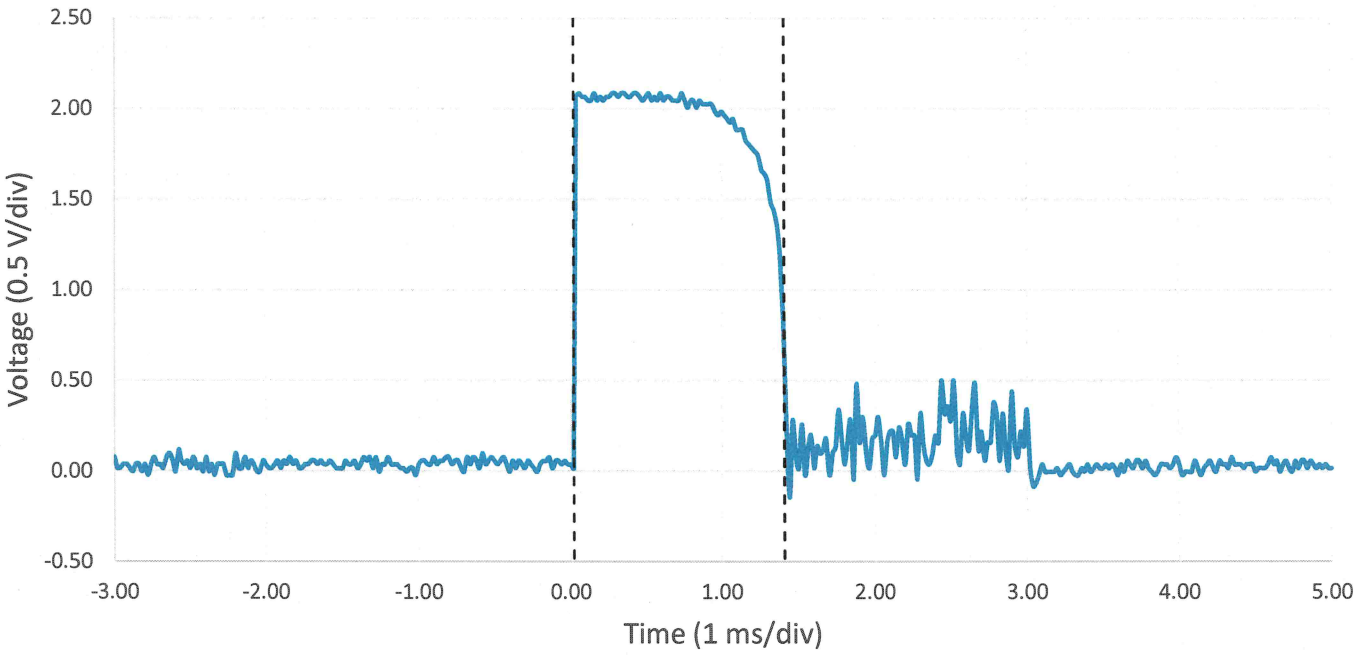
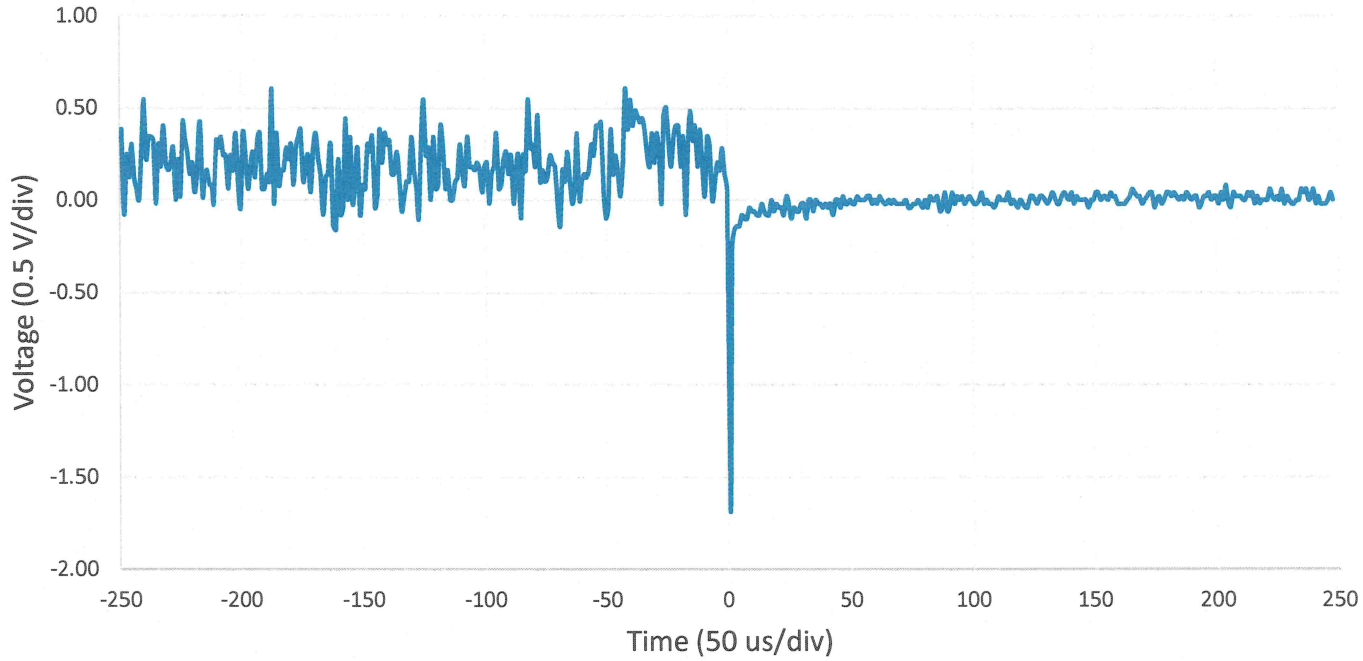
PL47179/2440

CW Immunity 1.39 ms



CW Recovery Plot



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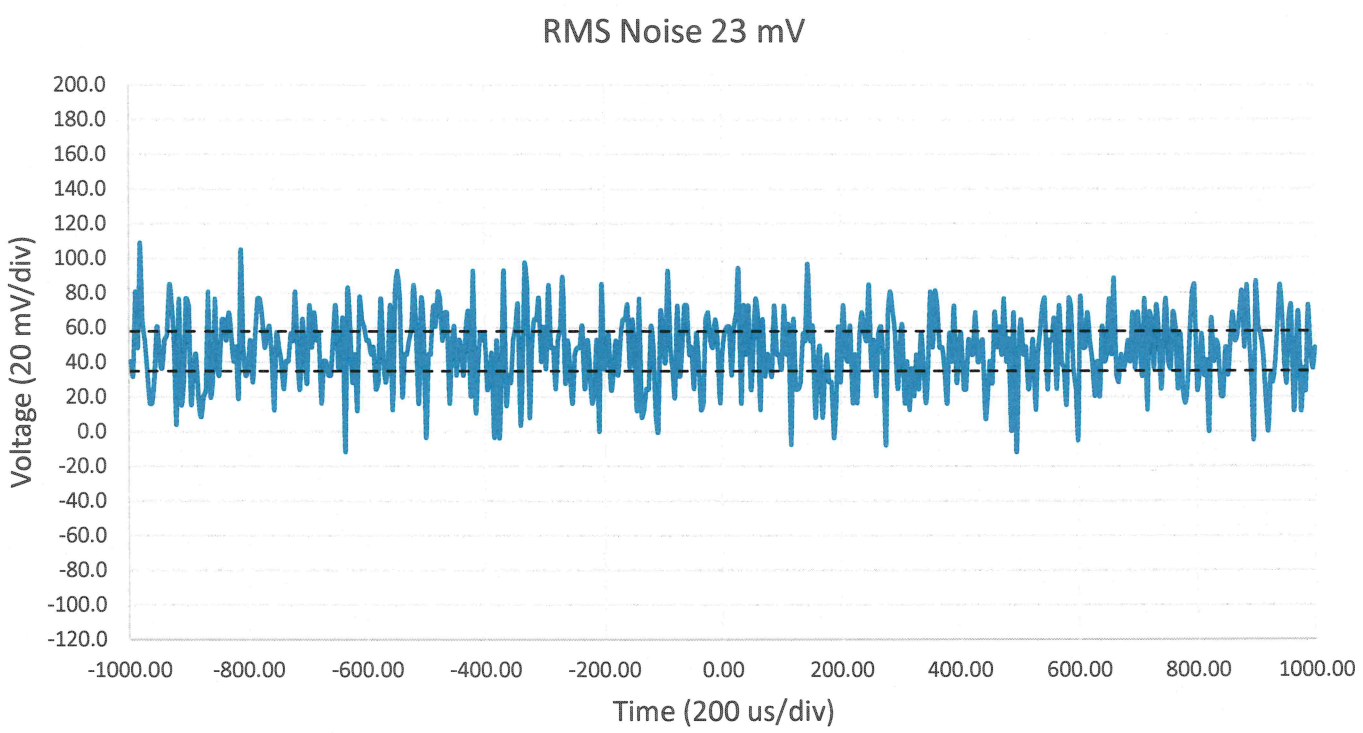
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL47179/2440



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