





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

13	VIDEO OUT Settling Time:	50 ns With in $\pm 70$ mV of final value @-10 dBm	<b>23.2 ns</b>	PMI QA3
14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	<b>0.46 us</b>	
15	VIDEO OUT Video Frequency Flatness:	$\pm 2.0$ dB MAX @25C	<b><math>\pm 0.72</math> dB</b>	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	<b>Pass</b>	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	<b>&lt; 2 dB</b>	
		Baseline shift 200mV @-40dBm CW	<b>&lt; 200 mV</b>	
		CW Immunity Time at CW = -40 dBm, $\leq 4$ ms	<b>1.4 ms</b>	
		CW Recovery Time at CW = -40 dBm, $\leq 20$ us	<b>&lt;20 us</b>	
17	Pulse droop	1dB Max for 300us pulse at or above -65dBm	<b>&lt;1dB</b>	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	<b>100 ns to 300 us</b>	
19	VIDEO LOAD Impedance:	$75 \pm 1 \Omega$	<b>75<math>\Omega</math></b>	
20	VIDEO driver capability	100 ft RG11 into 75 ohm load	<b>Pass</b>	
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	<b>Pass</b>	



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22	VIDEO OUT Noise Level (Vp-p):	160 mV max	140.8 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. Klauz

Date: 10-2-24



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

## LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.  
 MODEL: ERDLVA-2G18G-65-70MV-70C  
 SERIAL NO: PL47587/2440  
 DATE: 9/24/2024

Test Temp: 25 °C  
 Video Offset: 24 mV

**Frequency**

2000 MHz	INTERCEPT (mV)	4893
	SLOPE (mV/dB)	69.8

6000 MHz	INTERCEPT (mV)	4889
	SLOPE (mV/dB)	70.7

10000 MHz	INTERCEPT (mV)	4866
	SLOPE (mV/dB)	70.6

14000 MHz	INTERCEPT (mV)	4865
	SLOPE (mV/dB)	69.4

18000 MHz	INTERCEPT (mV)	4826
	SLOPE (mV/dB)	69.1

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
2000 MHz	339	701	1050	1399	1760	2089	2460	2817	3146	3514	3879	4186	4522	4870
6000 MHz	-16	-3	-3	-3	9	-11	11	19	-1	18	34	-8	-21	-23
10000 MHz	-0.23	-0.04	-0.04	-0.04	0.13	-0.16	0.15	0.27	-0.02	0.25	0.48	-0.12	-0.31	-0.32
14000 MHz	0.39	0.57	0.56	0.55	0.71	0.41	0.72	0.82	0.53	0.79	1.01	0.40	0.20	0.18
18000 MHz	288	641	989	1346	1703	2039	2431	2806	3138	3498	3836	4155	4509	4887
6000 MHz	-4	-4	-10	-7	-3	-21	17	39	17	23	8	-27	-26	-2
10000 MHz	-0.05	-0.06	-0.14	-0.09	-0.05	-0.30	0.25	0.55	0.24	0.33	0.11	-0.38	-0.37	-0.03
14000 MHz	-0.34	-0.29	-0.32	-0.21	-0.11	-0.30	0.30	0.67	0.41	0.56	0.40	-0.04	0.02	0.42
18000 MHz	273	629	975	1333	1689	2023	2413	2786	3114	3476	3804	4132	4491	4871
6000 MHz	-5	-2	-9	-4	-1	-20	17	30	13	22	-3	-23	-22	5
10000 MHz	-0.08	-0.03	-0.13	-0.06	-0.01	-0.28	0.25	0.53	0.18	0.31	-0.04	-0.40	-0.31	0.08
14000 MHz	-0.55	-0.46	-0.52	-0.40	-0.31	-0.53	0.05	0.38	0.07	0.25	-0.06	-0.37	-0.24	0.20
18000 MHz	335	701	1055	1399	1743	2070	2445	2798	3127	3488	3818	4146	4506	4883
6000 MHz	-16	3	9	6	3	-17	10	16	-2	12	-5	-25	-12	18
10000 MHz	-0.23	0.04	0.13	0.09	0.04	-0.25	0.15	0.23	-0.03	0.17	-0.08	-0.35	-0.17	0.26
14000 MHz	0.33	0.57	0.63	0.55	0.47	0.14	0.50	0.55	0.26	0.42	0.14	-0.17	-0.02	0.37
18000 MHz	324	687	1031	1378	1716	2036	2415	2768	3097	3462	3778	4115	4477	4840
6000 MHz	-10	7	6	7	0	-26	7	15	-2	18	-12	-20	-4	14
10000 MHz	-0.15	0.10	0.08	0.10	-0.01	-0.38	0.11	0.22	-0.02	0.26	-0.17	-0.29	-0.05	0.20
14000 MHz	0.17	0.37	0.28	0.25	0.08	-0.34	0.08	0.12	-0.17	0.05	-0.43	-0.62	-0.44	-0.25

RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.48
ACCURACY ERROR (dB)	1.01

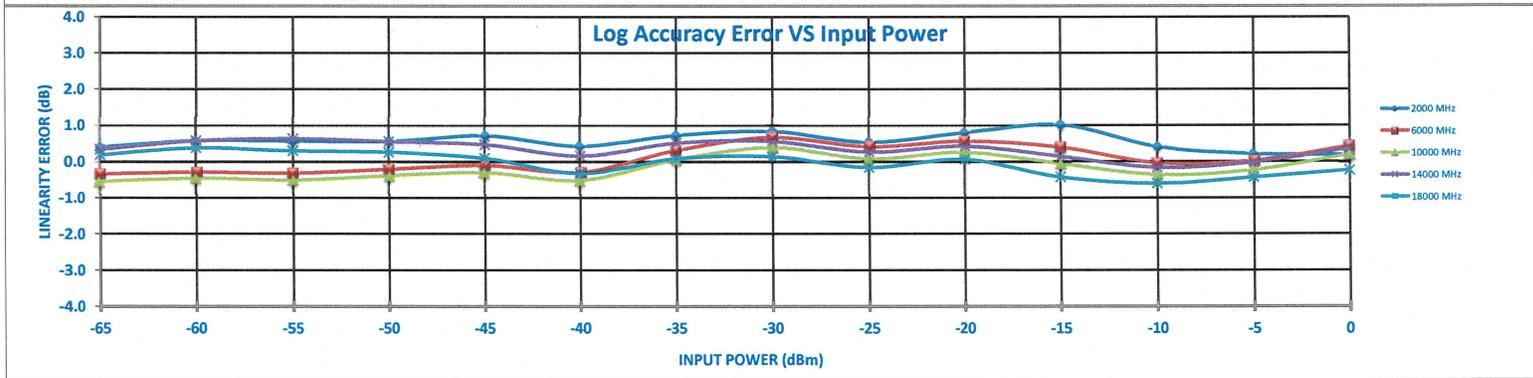
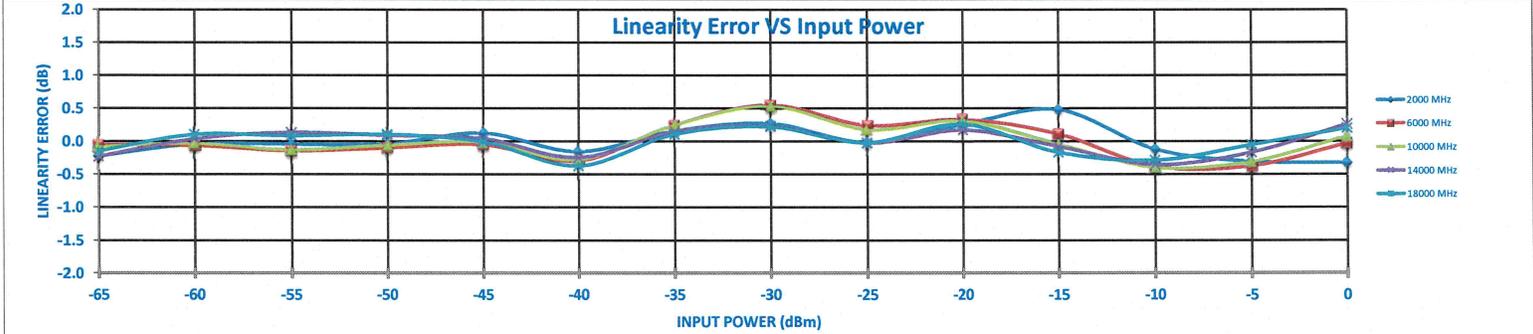
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.55
ACCURACY ERROR (dB)	0.67

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.53
ACCURACY ERROR (dB)	-0.55

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.35
ACCURACY ERROR (dB)	0.63

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.38
ACCURACY ERROR (dB)	-0.62

Flatness	+/- dB	0.47	0.51	0.57	0.47	0.51	0.47	0.34	0.35	0.35	0.37	0.72	0.51	0.32	0.34
															0.72





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

## LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.  
MODEL: ERDLVA-2G18G-65-70MV-70C  
SERIAL NO: PL47587/2440  
DATE: 9/24/2024

Test Temp: -40 °C  
Video Offset: 21 mV

Frequency

2000 MHz	INTERCEPT (mV)	4822
	SLOPE (mV/dB)	69.4

6000 MHz	INTERCEPT (mV)	4834
	SLOPE (mV/dB)	70.2

10000 MHz	INTERCEPT (mV)	4819
	SLOPE (mV/dB)	70.1

14000 MHz	INTERCEPT (mV)	4831
	SLOPE (mV/dB)	69.2

18000 MHz	INTERCEPT (mV)	4778
	SLOPE (mV/dB)	68.4

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
306	658	998	1347	1711	2048	2410	2753	3076	3442	3811	4124	4459	4809	
-8	-2	-9	-7	10	0	15	12	-12	7	29	-5	-17	-13	
-0.11	-0.03	-0.13	-0.10	0.15	0.00	0.22	0.17	-0.18	0.10	0.42	-0.07	-0.24	-0.19	
0.11	0.14	0.00	-0.01	0.19	0.00	0.17	0.07	-0.31	-0.09	0.19	-0.34	-0.56	-0.56	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
264	618	959	1308	1669	2013	2402	2762	3089	3443	3787	4106	4458	4835	
-4	-1	-12	-14	-4	-11	27	35	11	14	7	-25	-25	1	
-0.06	-0.02	-0.16	-0.20	-0.06	-0.16	0.38	0.50	0.16	0.20	0.10	-0.36	-0.35	0.02	
-0.49	-0.43	-0.56	-0.57	-0.41	-0.50	0.06	0.20	-0.13	-0.07	-0.16	-0.60	-0.57	-0.19	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
261	604	952	1310	1666	2006	2395	2750	3075	3429	3766	4090	4449	4825	
-3	-10	-12	-5	7	-10	25	34	8	12	-2	-28	-20	8	
-0.04	-0.14	-0.18	-0.07	0.01	-0.14	0.41	0.48	0.12	0.17	-0.02	-0.40	-0.28	0.09	
-0.53	-0.63	-0.66	-0.54	-0.46	-0.60	-0.04	0.03	-0.33	-0.27	-0.46	-0.83	-0.70	-0.33	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
334	677	1029	1368	1717	2057	2427	2769	3099	3450	3791	4116	4477	4847	
-1	-4	2	-4	-1	-7	17	13	-2	3	-2	-23	-8	16	
-0.01	-0.05	0.04	-0.06	-0.02	-0.10	0.25	0.19	-0.04	0.04	-0.03	-0.33	-0.11	0.24	
0.51	0.41	0.44	0.29	0.27	0.13	0.41	0.30	0.01	0.03	-0.10	-0.46	-0.30	-0.01	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
325	677	1023	1363	1700	2026	2399	2738	3059	3414	3741	4073	4440	4796	
-7	3	7	5	0	-16	15	12	-9	4	-11	-21	4	18	
-0.10	0.04	0.10	0.07	0.00	-0.24	0.22	0.17	-0.14	0.05	-0.17	-0.31	0.05	0.26	
0.39	0.41	0.36	0.21	0.03	-0.31	0.01	-0.14	-0.56	-0.49	-0.81	-1.07	-0.83	-0.74	

RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.42
ACCURACY ERROR (dB)	-0.56

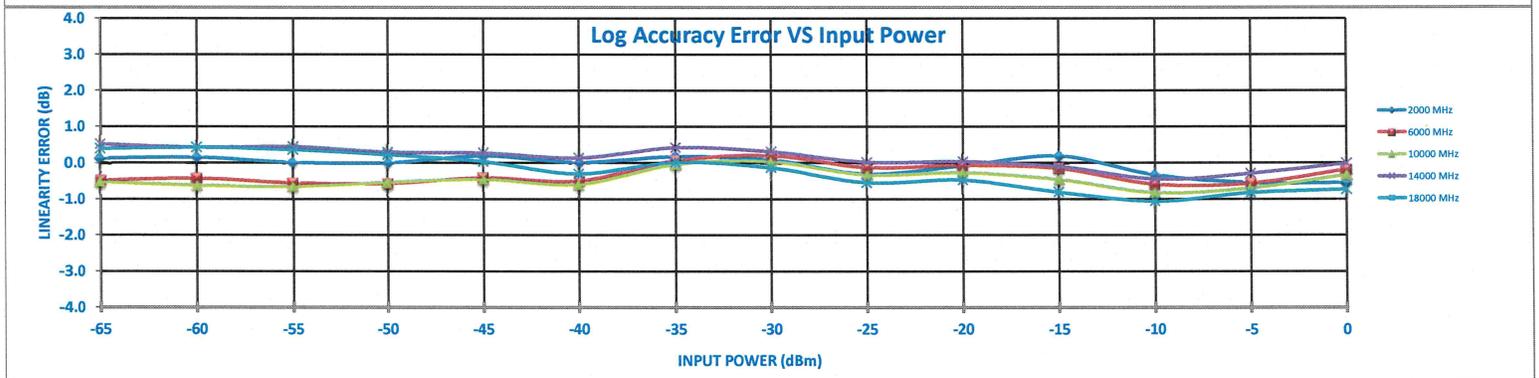
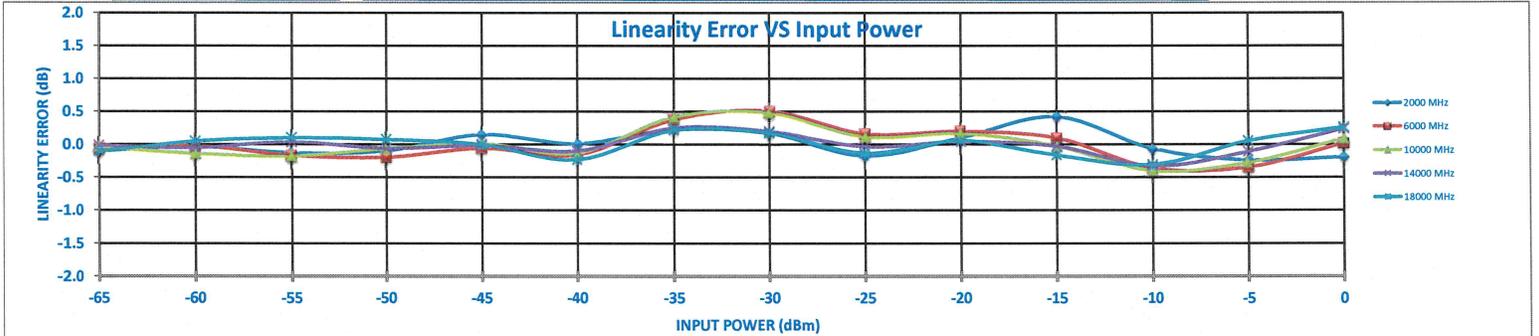
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.50
ACCURACY ERROR (dB)	-0.60

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.48
ACCURACY ERROR (dB)	-0.83

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.33
ACCURACY ERROR (dB)	0.51

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.31
ACCURACY ERROR (dB)	-1.07

Flatness	+/- dB	0.52	0.52	0.55	0.43	0.36	0.36	0.23	0.22	0.29	0.26	0.50	0.36	0.26	0.36
															0.55





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

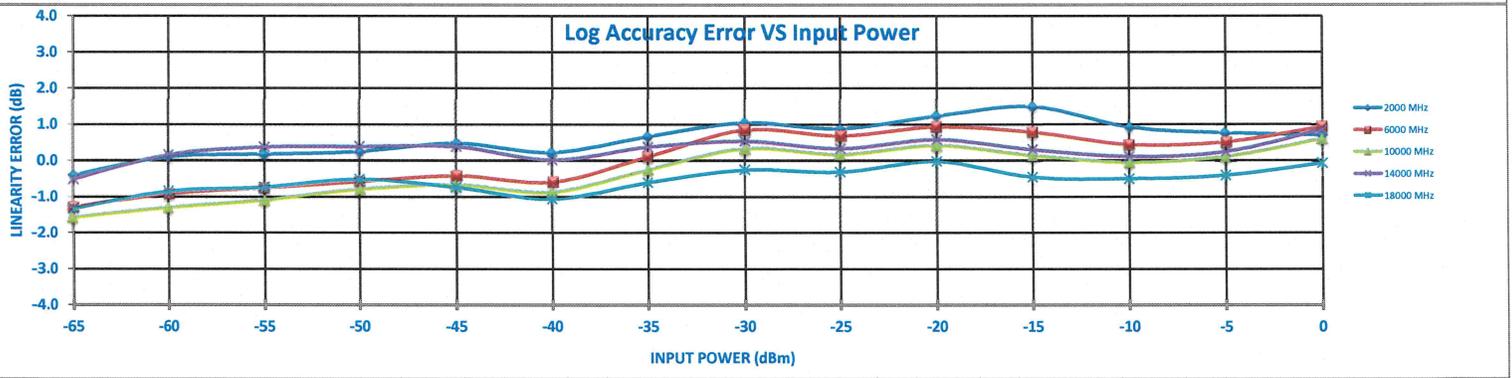
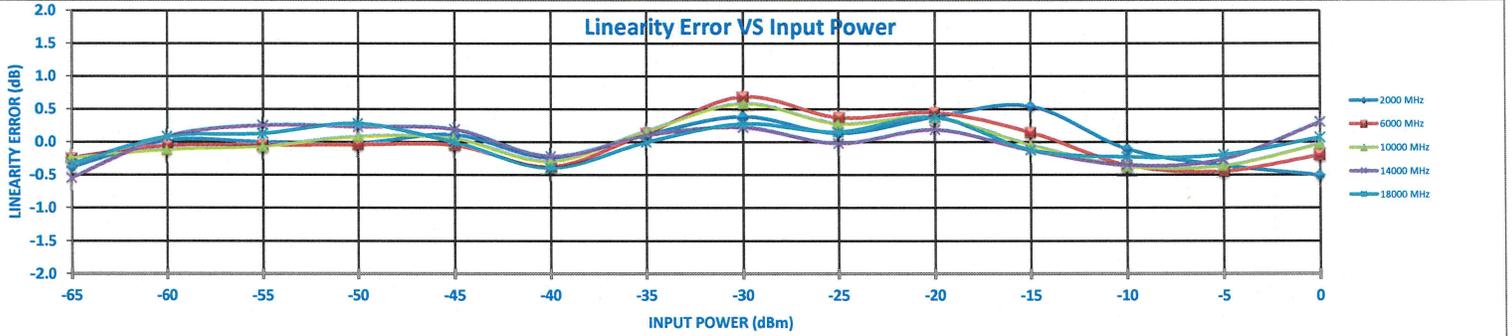
## LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.  
 MODEL: ERDLVA-2G18G-65-70MV-70C  
 SERIAL NO: PL47587/2440  
 DATE: 9/24/2024

Test Temp: 70 °C  
 Video Offset: 28 mV

Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	4924														Measured Value (mV)
	SLOPE (mV/dB)	70.3														Error (mV)
		326	706	1056	1406	1767	2094	2470	2841	3175	3544	3907	4213	4547	4888	LINEARITY ERROR (dB)
		-27	1	0	-2	7	-17	7	27	9	26	38	-8	-25	-36	ACCURACY ERROR (dB)
		-0.39	0.02	-0.01	-0.03	0.11	-0.24	0.10	0.38	0.13	0.38	0.54	-0.11	-0.36	-0.51	
		-0.42	0.09	0.16	0.23	0.46	0.20	0.65	1.03	0.87	1.22	1.48	0.91	0.75	0.70	
6000 MHz	INTERCEPT (mV)	4918														Measured Value (mV)
	SLOPE (mV/dB)	71.3														Error (mV)
		266	636	993	1350	1706	2039	2432	2828	3162	3524	3859	4180	4530	4904	LINEARITY ERROR (dB)
		-17	-4	-3	-3	-3	-27	10	49	27	32	10	-25	-32	-14	ACCURACY ERROR (dB)
		-0.24	-0.05	-0.04	-0.04	-0.05	-0.38	0.14	0.69	0.37	0.45	0.15	-0.35	-0.44	-0.20	
		-1.29	-0.93	-0.75	-0.58	-0.42	-0.59	0.10	0.84	0.68	0.93	0.78	0.43	0.51	0.93	
10000 MHz	INTERCEPT (mV)	4883														Measured Value (mV)
	SLOPE (mV/dB)	71.1														Error (mV)
		246	610	969	1335	1688	2019	2407	2792	3126	3488	3814	4146	4502	4881	LINEARITY ERROR (dB)
		-17	-5	-5	5	3	-21	12	-1	20	26	-3	-25	-26	-3	ACCURACY ERROR (dB)
		-0.24	-0.12	-0.07	0.08	0.05	-0.29	0.16	0.58	0.28	0.37	-0.04	-0.37	-0.36	-0.03	
		-1.58	-1.30	-1.10	-0.80	-0.68	-0.88	-0.26	0.32	0.16	0.41	0.13	-0.06	0.10	0.59	
14000 MHz	INTERCEPT (mV)	4877														Measured Value (mV)
	SLOPE (mV/dB)	69.5														Error (mV)
		319	710	1070	1416	1761	2080	2450	2806	3137	3499	3825	4157	4511	4898	LINEARITY ERROR (dB)
		-38	5	18	16	13	-16	7	15	-2	13	-9	-25	-18	21	ACCURACY ERROR (dB)
		-0.55	0.08	0.25	0.23	0.19	-0.22	0.10	0.22	-0.02	0.18	-0.13	-0.36	-0.26	0.30	
		-0.52	0.14	0.36	0.38	0.38	0.00	0.36	0.52	0.32	0.57	0.29	0.10	0.23	0.84	
18000 MHz	INTERCEPT (mV)	4829														Measured Value (mV)
	SLOPE (mV/dB)	69.9														Error (mV)
		262	640	993	1353	1683	2005	2382	2751	3092	3457	3772	4114	4466	4834	LINEARITY ERROR (dB)
		-23	5	9	19	-1	-28	-1	19	10	26	-9	-16	-14	5	ACCURACY ERROR (dB)
		-0.33	0.07	0.12	0.27	-0.01	-0.40	-0.01	0.27	0.15	0.37	-0.13	-0.23	-0.20	0.06	
		-1.35	-0.87	-0.75	-0.54	-0.75	-1.09	-0.62	-0.28	-0.33	-0.04	-0.48	-0.52	-0.42	-0.09	

Flatness	+/- dB	0.58	0.72	0.73	0.59	0.61	0.64	0.64	0.65	0.60	0.63	0.98	0.72	0.59	0.51	0.98
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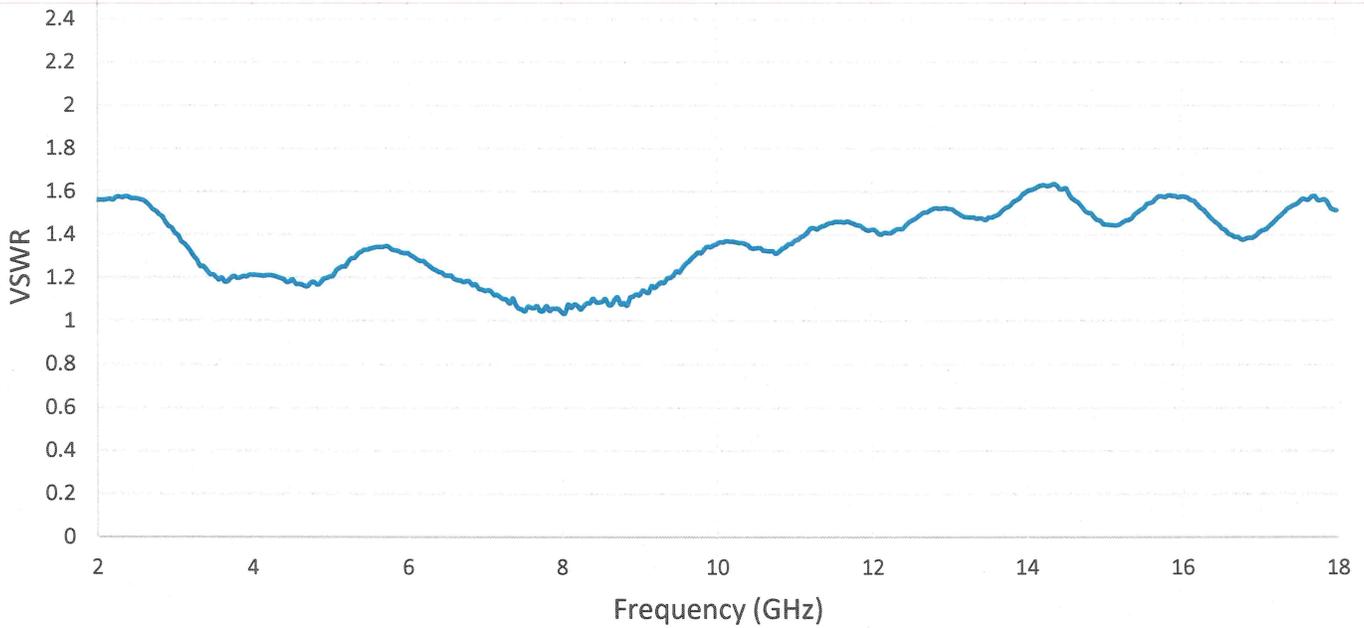




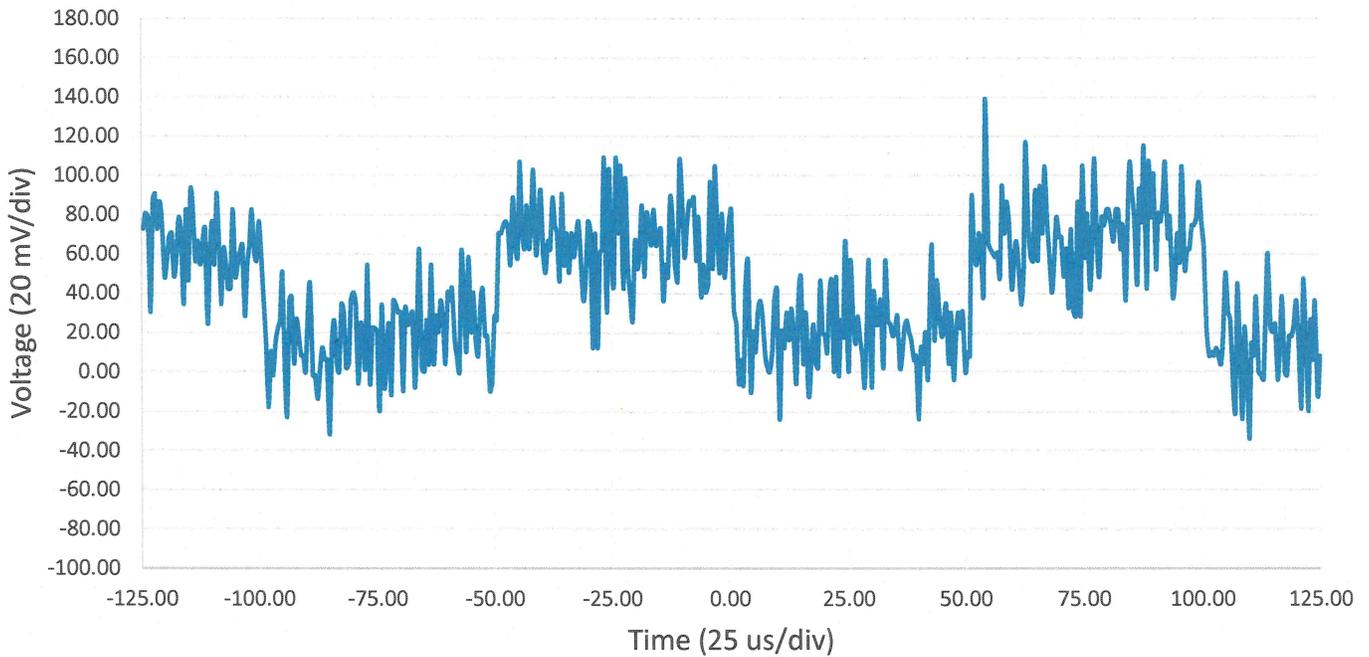
**Summary Data  
For  
ERDLVA-2G18G-65-70MV-70C**

PL47587/2440

VSWR 1.64:1



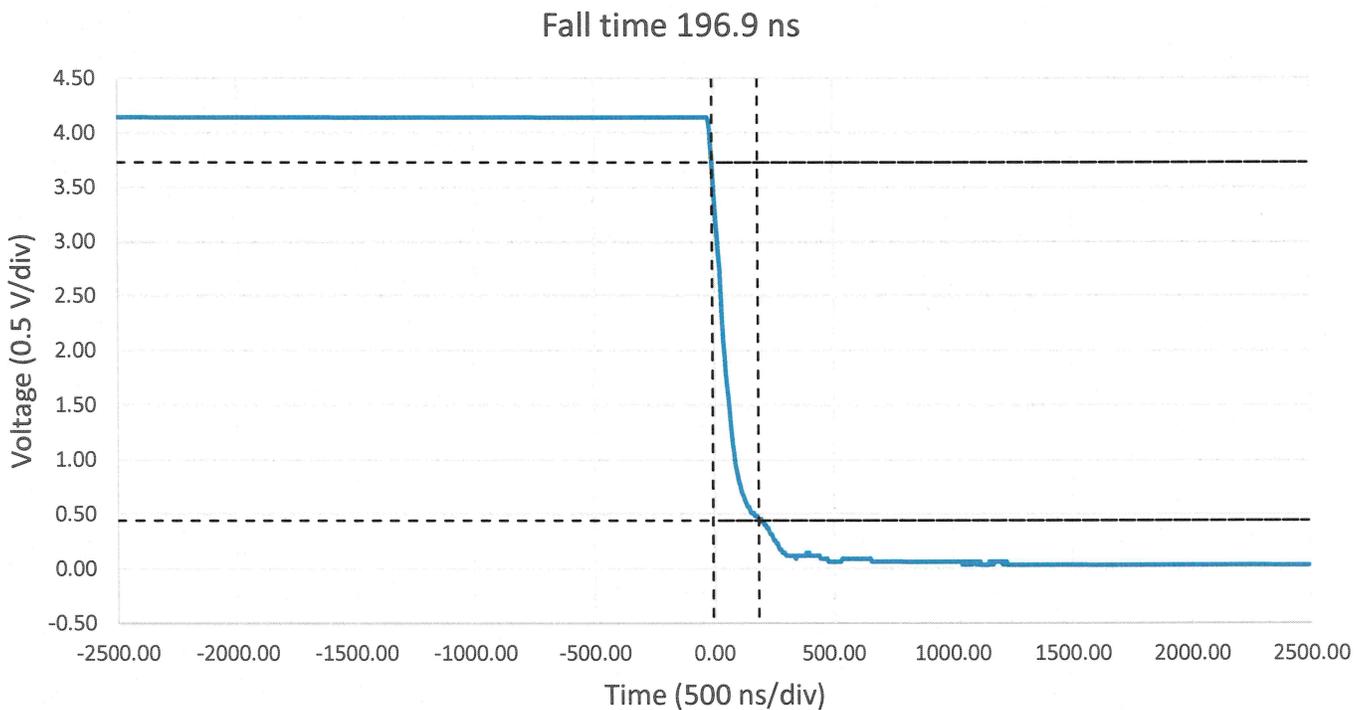
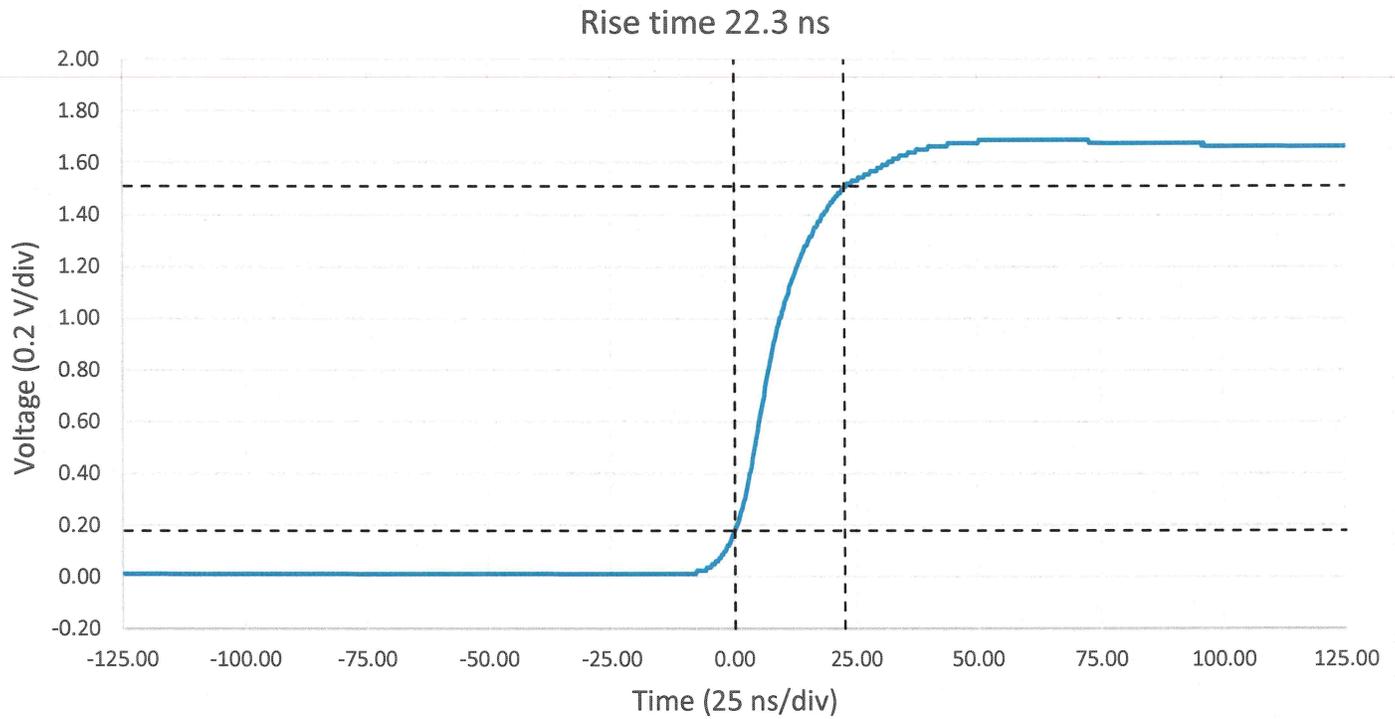
TSS @ -71.8 dBm

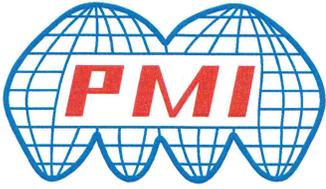




**Summary Data**  
**For**  
**ERDLVA-2G18G-65-70MV-70C**

PL47587/2440

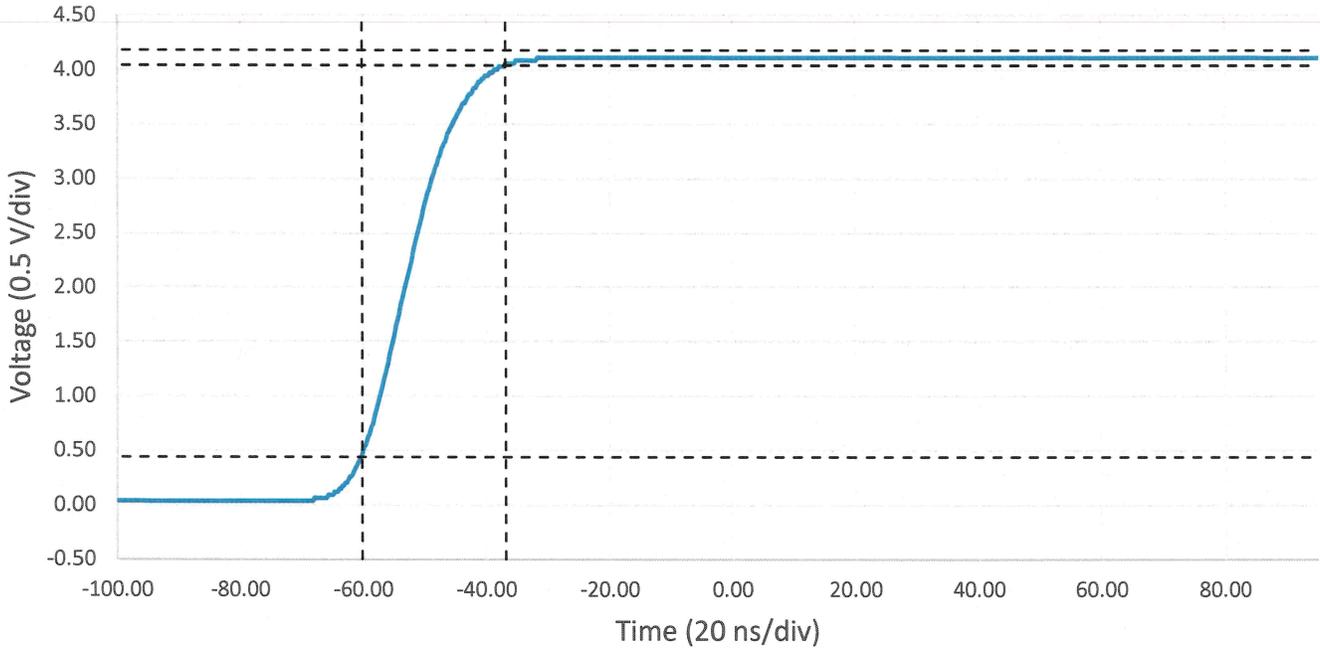




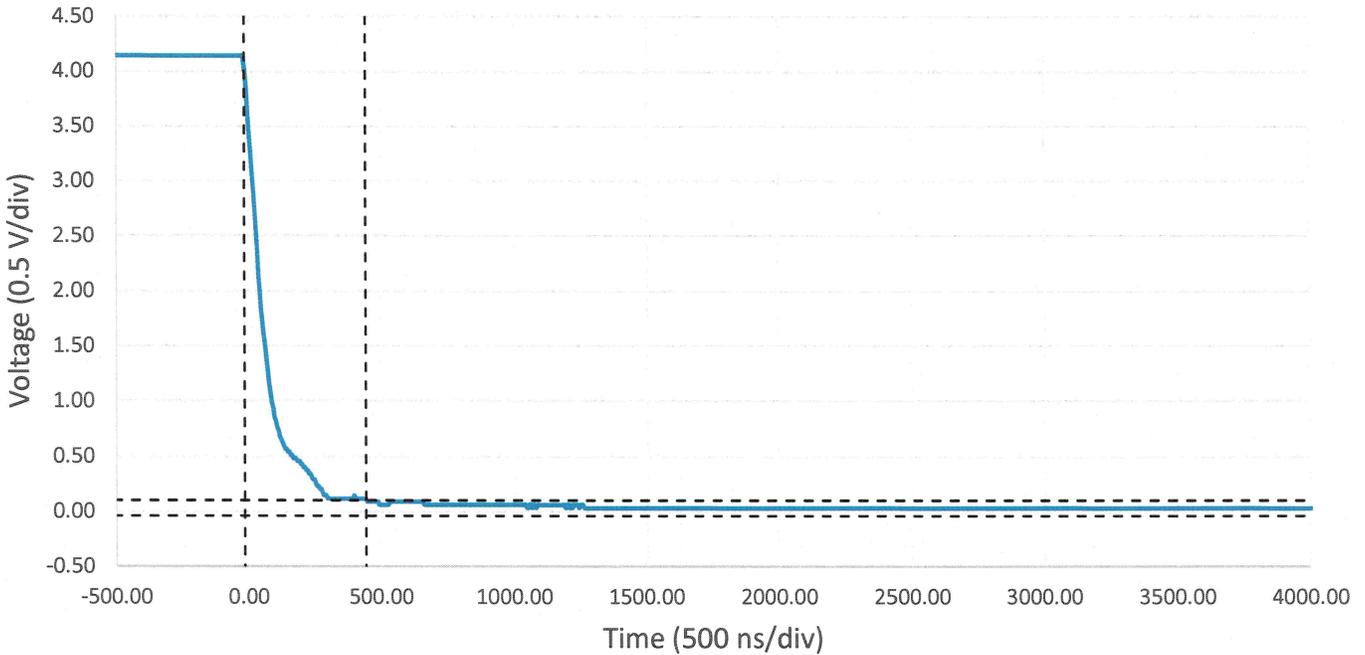
Summary Data  
For  
ERDLVA-2G18G-65-70MV-70C

PL47587/2440

Settle time 23.2 ns



Recovery time 460 ns

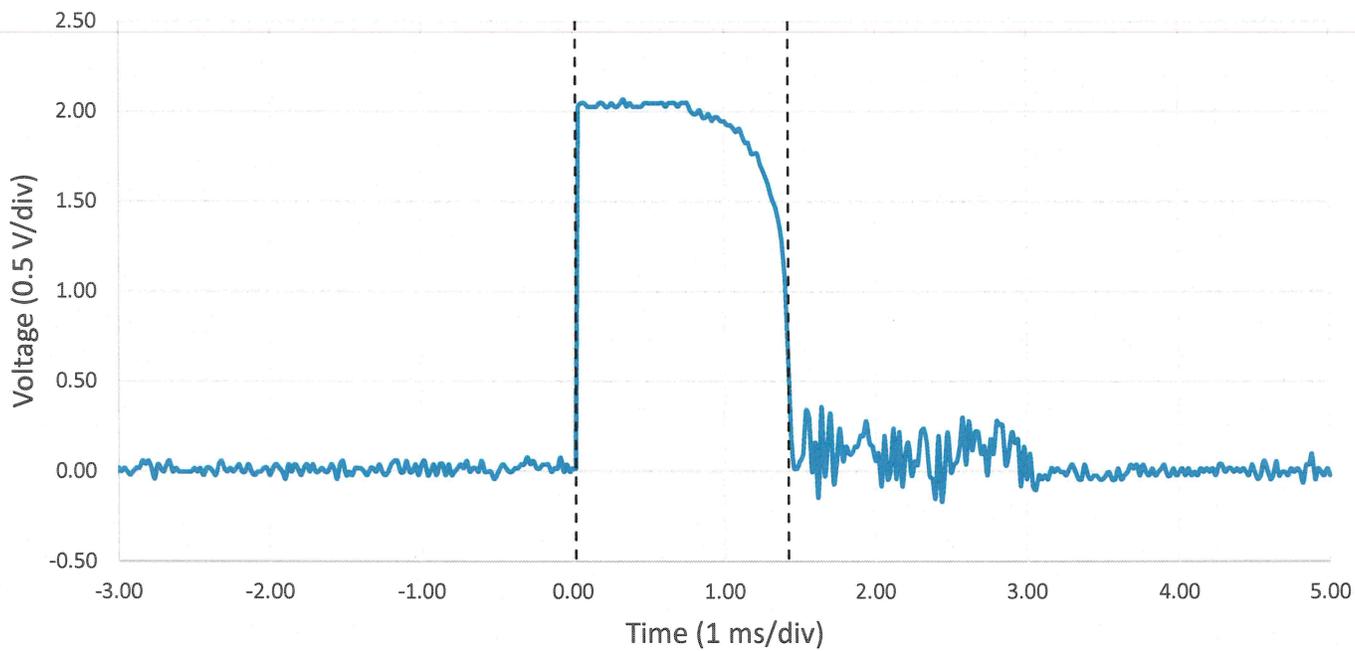




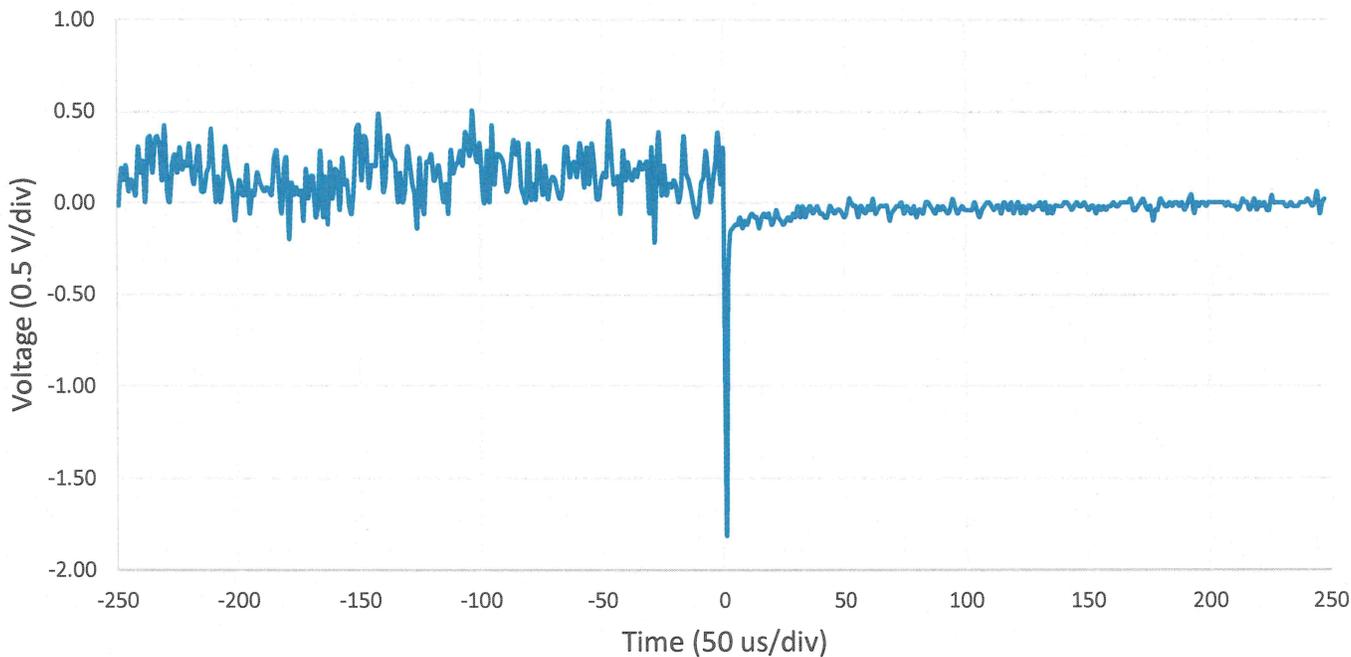
**Summary Data  
For  
ERDLVA-2G18G-65-70MV-70C**

PL47587/2440

CW Immunity 1.4 ms



CW Recovery Plot





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

PL47587/2440

RMS Noise 21.3 mV

