





**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	23.5 ns	 
14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	0.44 us	
15	VIDEO OUT Video Frequency Flatness:	$\pm 2.0$ dB MAX @25C	$\pm 0.64$ 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, $\leq 4$ ms	1.46 ms	
		CW Recovery Time at CW = -40 dBm, $\leq 20$ 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:	$75 \pm 1 \Omega$	75 $\Omega$	
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	130.9 mV	PMI QAS
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 @ 320 mA -15 V @ 80 mA	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval: *K. Hammy* Date: 11-25-24



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

## LOG TRANSFER WITH FREQUENCY

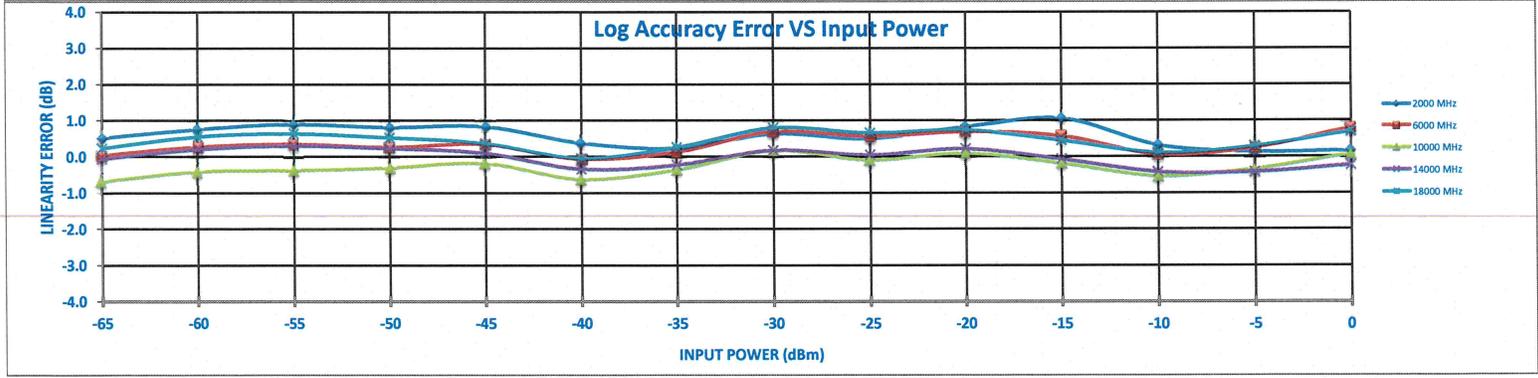
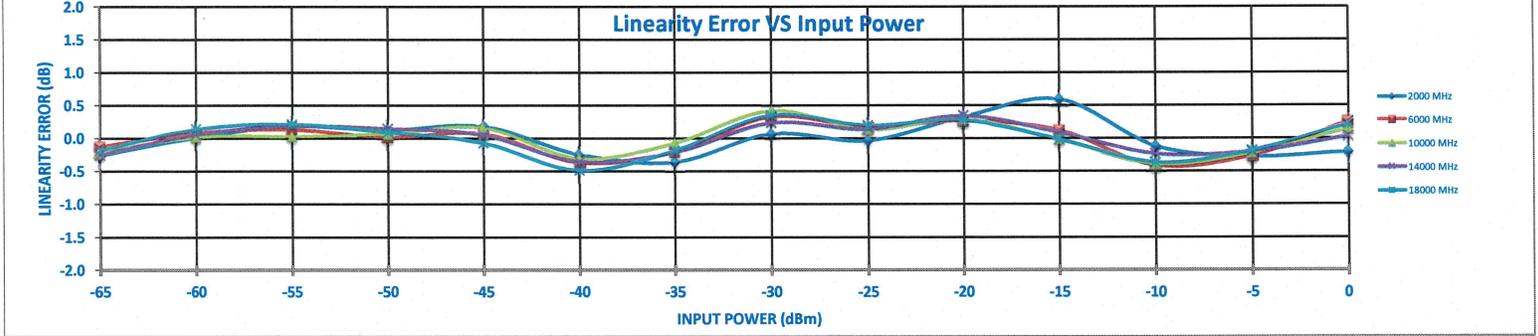
TESTED BY: Anton L.  
MODEL: ERDLVA-2G18G-65-70MV-70C  
SERIAL NO: PL49720/2448  
DATE: 11/25/2024

Test Temp: 25 °C  
Video Offset: -9 mV

Frequency

Frequency	Intercept (mV)	Slope (mV/dB)	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	ACCURACY ERROR (dB)																																							
2000 MHz	4939	70.0	371	740	1102	1448	1802	2122	2464	2844	3187	3562	3931	4231	4570	4925	-18	1	13	9	13	-17	-25	5	-2	23	42	-8	-19	-14	-0.26	0.01	0.18	0.13	0.18	-0.25	-0.36	0.07	-0.03	0.33	0.60	-0.12	-0.27	-0.20	0.51	0.75	0.89	0.81	0.83	0.38	0.23	0.63	0.50	0.82	1.06	0.32	0.13	0.17	0.60	1.06
6000 MHz	4950	70.8	336	705	1063	1409	1767	2090	2456	2848	3191	3552	3896	4212	4577	4968	-9	5	9	1	5	-27	-15	23	12	19	8	-30	-19	18	-0.13	0.08	0.13	0.01	0.07	-0.37	-0.21	0.32	0.17	0.26	0.12	-0.42	-0.27	0.25	0.02	0.26	0.34	0.25	0.34	-0.08	0.12	0.68	0.55	0.68	0.56	0.05	0.23	0.79	-0.42	0.79
10000 MHz	4907	70.8	286	657	1012	1369	1730	2051	2422	2811	3145	3510	3843	4170	4536	4917	-15	1	2	5	11	-22	-5	30	9	20	-1	-28	-17	10	-0.22	0.02	0.03	0.07	0.16	-0.31	-0.07	0.42	0.13	0.28	-0.02	-0.40	-0.23	0.14	-0.69	-0.43	-0.38	-0.32	-0.19	-0.63	-0.36	0.16	-0.10	0.08	-0.19	-0.55	-0.35	0.06	-0.69	-0.69
14000 MHz	4894	69.9	330	701	1060	1407	1750	2071	2431	2812	3155	3519	3851	4178	4530	4896	-18	4	13	10	4	-25	-15	16	10	24	6	-17	-14	2	-0.25	0.05	0.19	0.15	0.05	-0.36	-0.21	0.23	0.14	0.34	0.09	-0.24	-0.20	0.03	-0.07	0.20	0.30	0.22	0.09	-0.35	-0.24	0.17	0.04	0.21	-0.07	-0.43	-0.43	-0.24	-0.43	-0.43
18000 MHz	4947	70.5	351	726	1084	1428	1769	2092	2466	2856	3198	3556	3888	4216	4581	4962	-13	10	15	7	-5	-34	-13	25	14	19	-1	-26	-13	15	-0.18	0.14	0.21	0.09	-0.07	-0.49	-0.18	0.35	0.20	0.28	-0.01	-0.36	-0.19	0.22	0.23	0.55	0.64	0.52	0.36	-0.05	0.26	0.80	0.65	0.74	0.45	0.11	0.29	0.70	-0.49	0.80

Flatness	+/- dB	0.60	0.59	0.64	0.56	0.51	0.50	0.31	0.32	0.38	0.37	0.62	0.43	0.36	0.51	0.64
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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: PL49720/2448  
 DATE: 11/25/2024

Test Temp: -40 °C  
 Video Offset: -55 mV

Frequency

2000 MHz	INTERCEPT (mV)	4822
	SLOPE (mV/dB)	69.9

6000 MHz	INTERCEPT (mV)	4849
	SLOPE (mV/dB)	70.5

10000 MHz	INTERCEPT (mV)	4839
	SLOPE (mV/dB)	70.9

14000 MHz	INTERCEPT (mV)	4827
	SLOPE (mV/dB)	70.1

18000 MHz	INTERCEPT (mV)	4897
	SLOPE (mV/dB)	70.7

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
271	628	978	1327	1694	2019	2356	2728	3067	3439	3814	4122	4456	4808	
-8	0	0	0	17	-7	-20	3	-8	15	40	-1	-17	-14	
-0.11	0.00	0.01	0.00	0.25	-0.10	-0.28	0.04	-0.11	0.21	0.57	-0.02	-0.24	-0.21	
0.04	0.11	0.08	0.03	0.25	-0.14	-0.36	-0.07	-0.26	0.02	0.35	-0.28	-0.54	-0.54	

	271	621	969	1317	1681	2012	2369	2754	3094	3451	3802	4121	4478	4867
5	2	-2	-7	5	-17	-12	20	8	12	10	-23	-19	18	
0.07	0.04	-0.03	-0.09	0.07	-0.24	-0.18	0.28	0.11	0.17	0.15	-0.33	-0.27	0.25	
0.04	0.01	-0.05	-0.11	0.06	-0.24	-0.17	0.30	0.12	0.19	0.18	-0.29	-0.22	0.30	

	228	585	928	1286	1656	1989	2357	2744	3082	3439	3781	4104	4465	4844
-3	0	-11	-9	8	-14	-1	32	15	8	5	25	-20	8	
-0.03	0.00	-0.16	-0.11	0.11	-0.20	-0.01	0.45	0.22	0.25	0.07	-0.37	-0.28	0.06	
-0.57	-0.50	-0.63	-0.55	-0.29	-0.57	-0.34	0.15	-0.05	0.02	-0.12	-0.54	-0.41	-0.03	

	264	621	973	1317	1665	2000	2363	2747	3087	3445	3786	4111	4467	4818
-4	3	4	-3	-6	-21	-9	24	13	21	11	-15	-9	-9	
-0.05	0.04	0.05	-0.04	-0.08	-0.30	-0.13	0.35	0.19	0.30	0.16	-0.21	-0.13	-0.13	
-0.06	0.01	0.01	-0.11	-0.17	-0.41	-0.26	0.20	0.02	0.11	-0.05	-0.44	-0.38	-0.40	

	307	659	1017	1361	1703	2047	2416	2804	3147	3495	3833	4170	4531	4910
4	2	7	-2	-14	-23	-7	27	17	12	-4	-20	-12	13	
0.05	0.03	0.10	-0.03	-0.19	-0.33	-0.10	0.39	0.24	0.17	-0.05	-0.28	-0.17	0.19	
0.55	0.55	0.63	0.52	0.37	0.26	0.50	1.01	0.88	0.82	0.82	0.40	0.53	0.91	

RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.57
ACCURACY ERROR (dB)	-0.54

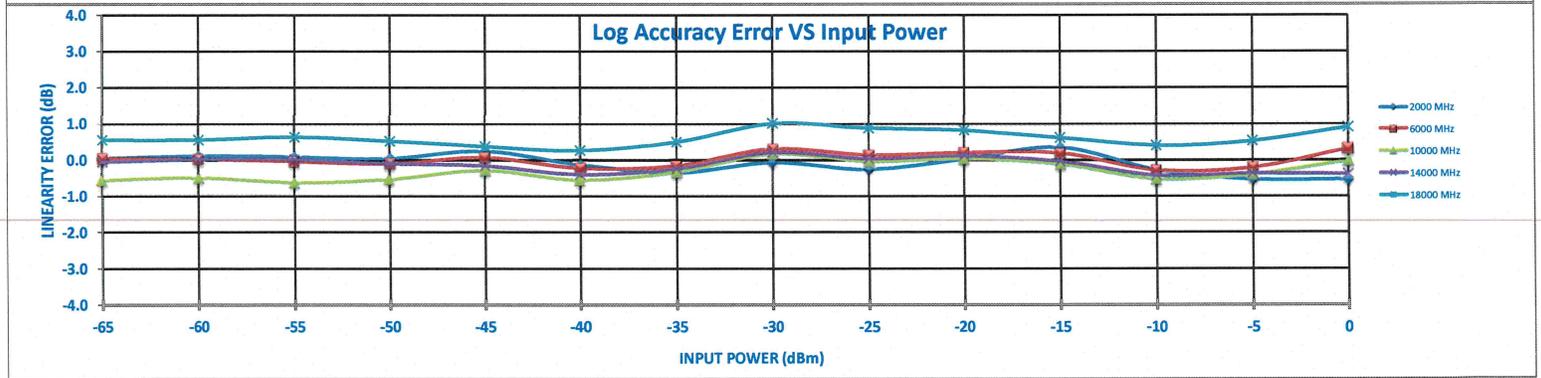
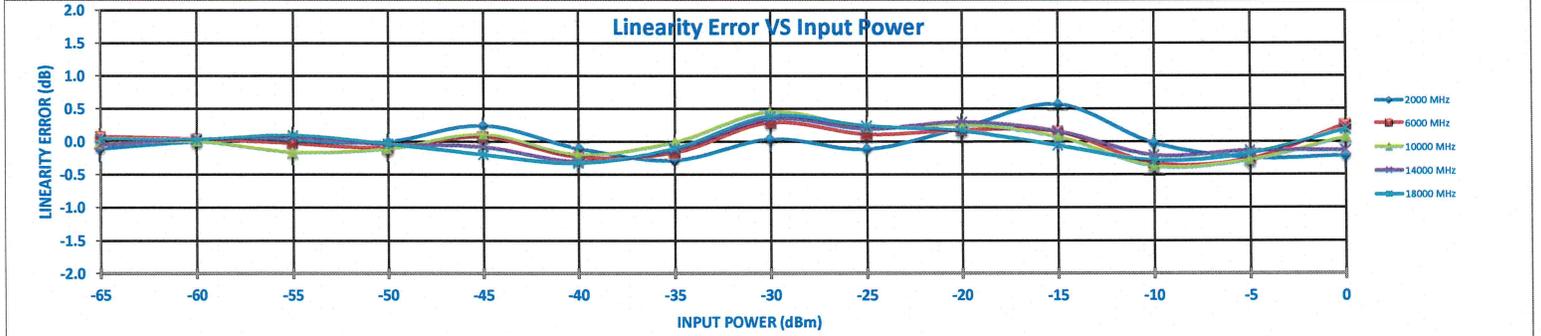
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.33
ACCURACY ERROR (dB)	0.30

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.45
ACCURACY ERROR (dB)	-0.63

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.35
ACCURACY ERROR (dB)	-0.44

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.39
ACCURACY ERROR (dB)	1.01

Flatness	+/- dB	0.56	0.53	0.63	0.53	0.33	0.41	0.43	0.54	0.57	0.40	0.37	0.47	0.53	0.72
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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: PL49720/2448  
 DATE: 11/25/2024

Test Temp: 70 °C  
 Video Offset: 38 mV

Frequency		
2000 MHz	INTERCEPT (mV)	4966
	SLOPE (mV/dB)	69.8

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
399	785	1142	1484	1844	2154	2503	2881	3224	3597	3964	4261	4597	4939	
-31	6	14	7	18	-21	-21	8	3	27	45	-7	-20	-27	
-0.45	0.08	0.20	0.10	0.26	-0.30	-0.30	0.12	0.04	0.38	0.64	-0.10	-0.29	-0.38	
0.20	0.70	0.79	0.67	0.80	0.22	0.20	0.59	0.48	0.80	1.03	0.27	0.06	-0.07	

RF Input Power (dBm)	
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	0.64
ACCURACY ERROR (dB)	1.03

6000 MHz	INTERCEPT (mV)	4972
	SLOPE (mV/dB)	70.7

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
353	740	1095	1442	1798	2112	2484	2876	3221	3581	3921	4239	4599	4977	
-23	10	12	5	8	-32	-13	25	17	23	10	-26	-19	5	
-0.33	0.14	0.16	0.07	0.11	-0.45	-0.19	0.36	0.23	0.33	0.14	-0.37	-0.27	0.07	
-0.46	0.06	0.12	0.07	0.15	-0.38	-0.07	0.52	0.44	0.57	0.42	-0.05	0.09	0.48	

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.45
ACCURACY ERROR (dB)	0.57

10000 MHz	INTERCEPT (mV)	4919
	SLOPE (mV/dB)	70.6

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
305	686	1044	1402	1758	2072	2441	2822	3168	3529	3858	4191	4551	4922	
-28	2	7	13	15	-24	-7	21	14	22	-2	-22	-15	3	
-0.37	0.03	0.10	0.17	0.22	-0.33	-0.11	0.29	0.19	0.31	-0.03	-0.31	-0.21	0.04	
-1.14	-0.71	-0.60	-0.50	-0.42	-0.95	-0.68	-0.25	-0.32	-0.17	-0.48	-0.73	-0.60	-0.31	

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.37
ACCURACY ERROR (dB)	-1.14

14000 MHz	INTERCEPT (mV)	4902
	SLOPE (mV/dB)	69.2

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
371	756	1113	1457	1803	2113	2466	2831	3178	3538	3865	4196	4536	4912	
-32	7	18	16	16	-20	-13	5	6	20	1	-14	-20	10	
-0.47	0.10	0.26	0.23	0.23	-0.30	-0.19	0.08	0.09	0.29	0.02	-0.20	-0.29	0.15	
-0.20	0.29	0.38	0.29	0.22	-0.36	-0.33	-0.12	-0.18	-0.04	-0.38	-0.66	-0.81	-0.45	

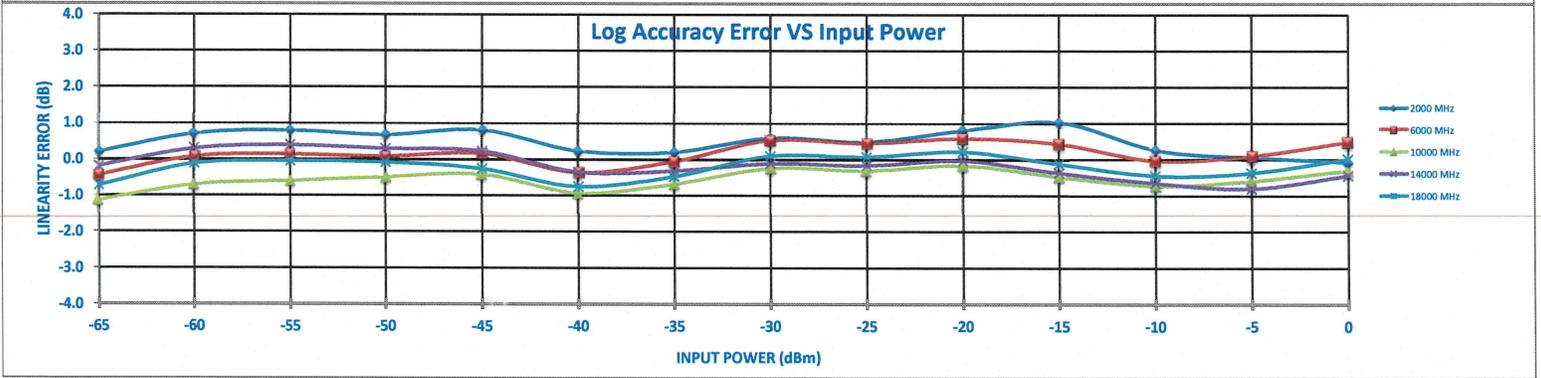
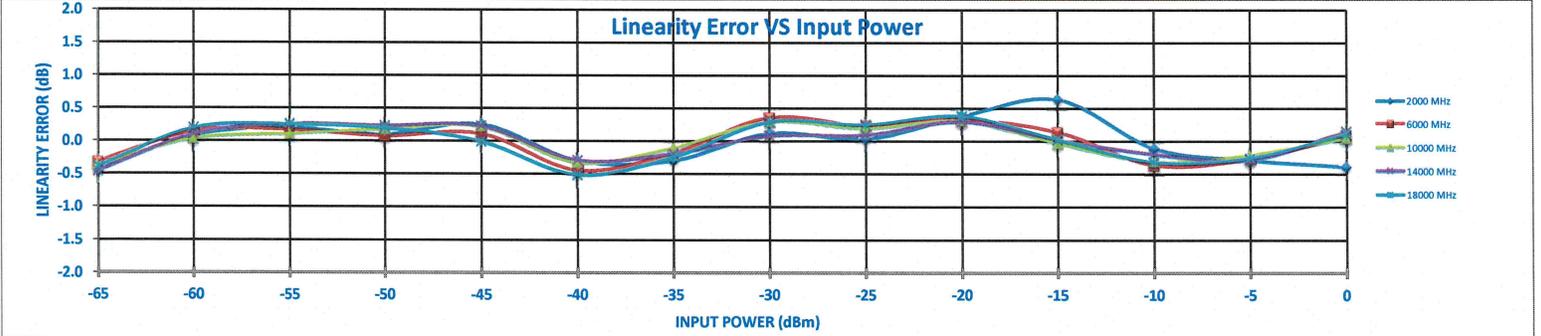
Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.47
ACCURACY ERROR (dB)	-0.81

18000 MHz	INTERCEPT (mV)	4937
	SLOPE (mV/dB)	70.4

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
334	727	1083	1431	1769	2085	2456	2846	3195	3556	3883	4211	4567	4945	
-27	14	18	14	0	-36	-17	21	18	27	2	-22	-18	8	
-0.39	0.20	0.25	0.20	0.00	-0.51	-0.24	0.30	0.25	0.38	0.03	-0.31	-0.26	0.11	
-0.73	-0.12	-0.05	-0.09	-0.27	-0.76	-0.47	0.09	0.07	0.21	-0.12	-0.45	-0.37	0.02	

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	-0.51
ACCURACY ERROR (dB)	-0.76

Flatness	+/- dB	0.67	0.71	0.70	0.58	0.61	0.58	0.44	0.42	0.40	0.48	0.76	0.50	0.45	0.46
															0.76

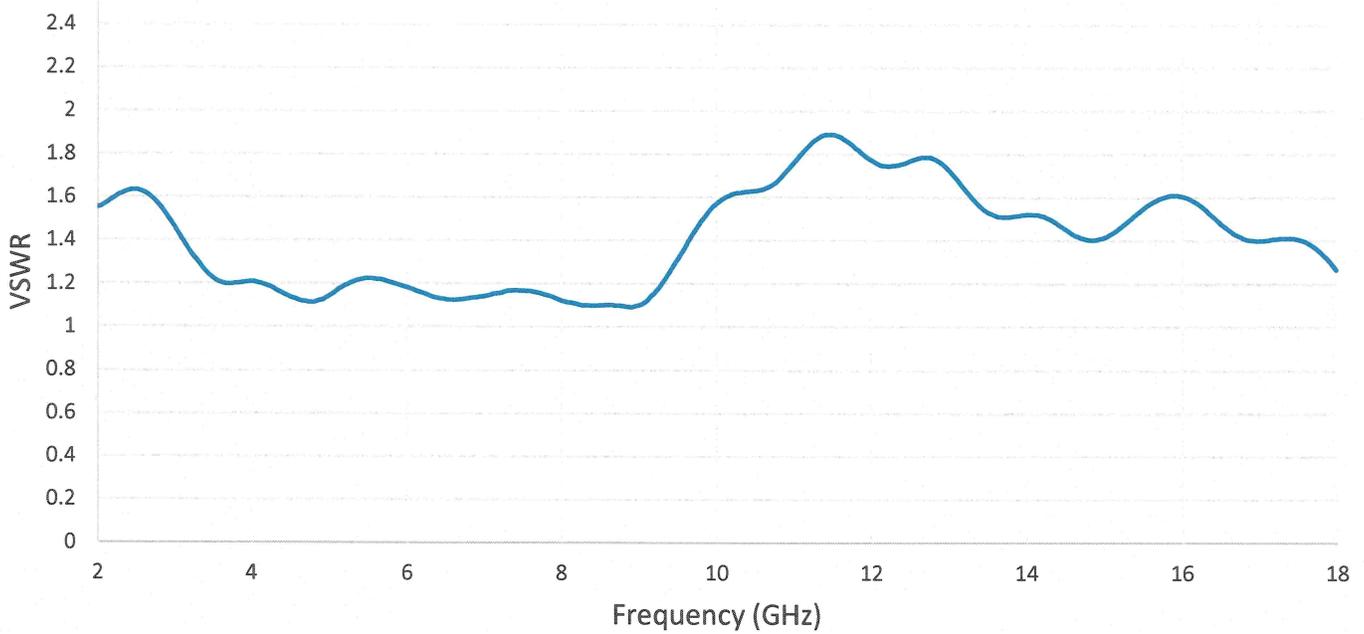




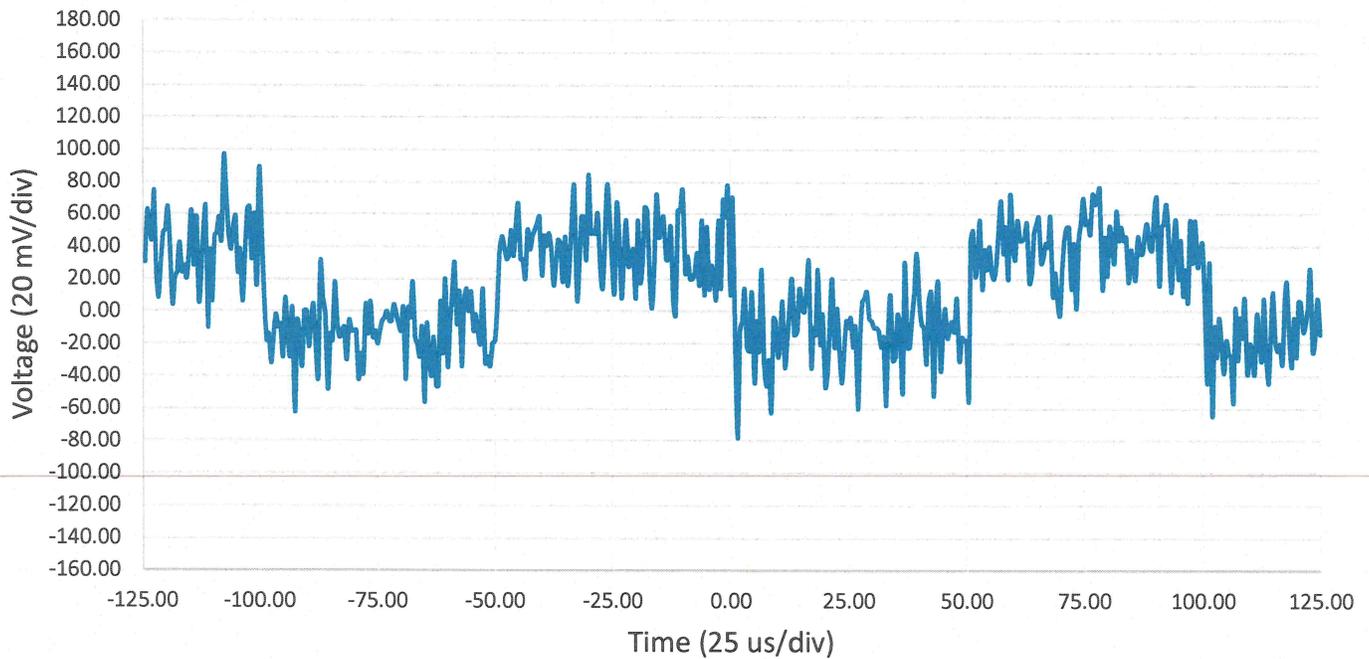
**Summary Data  
For  
ERDLVA-2G18G-65-70MV-70C**

PL49720/2448

VSWR 1.89:1



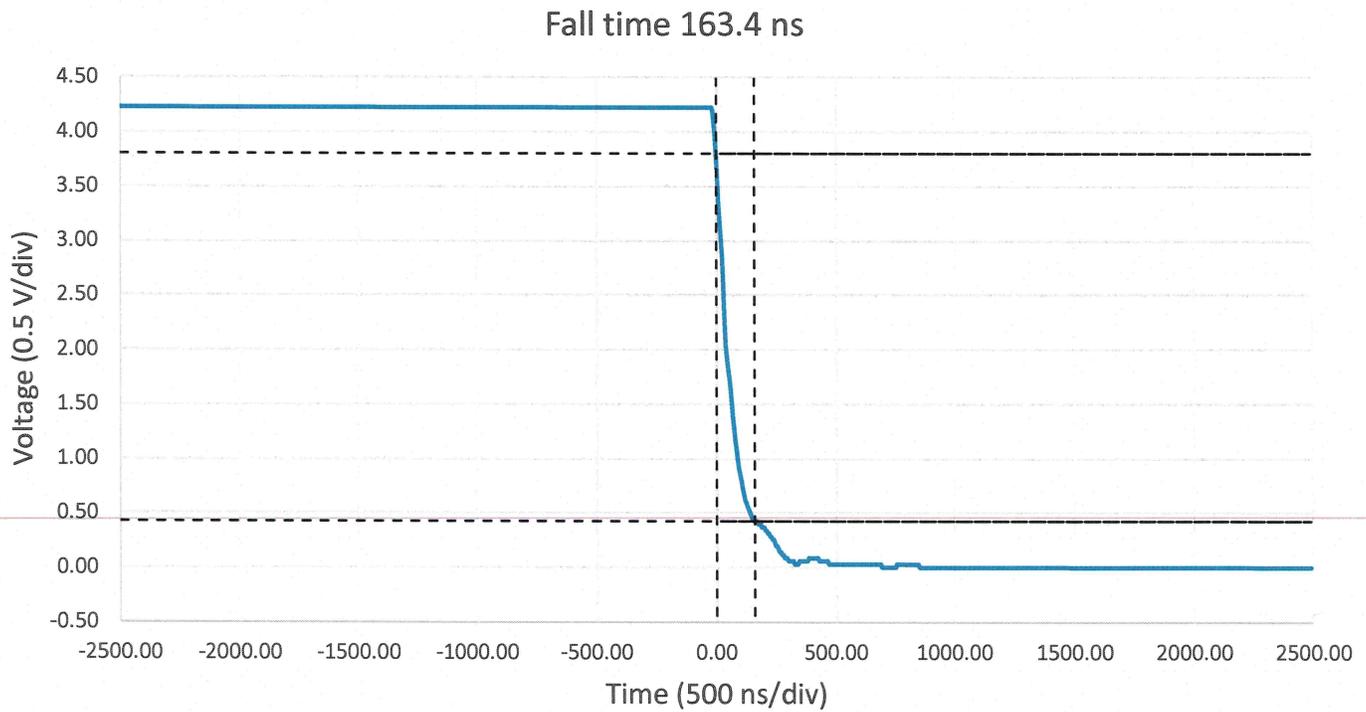
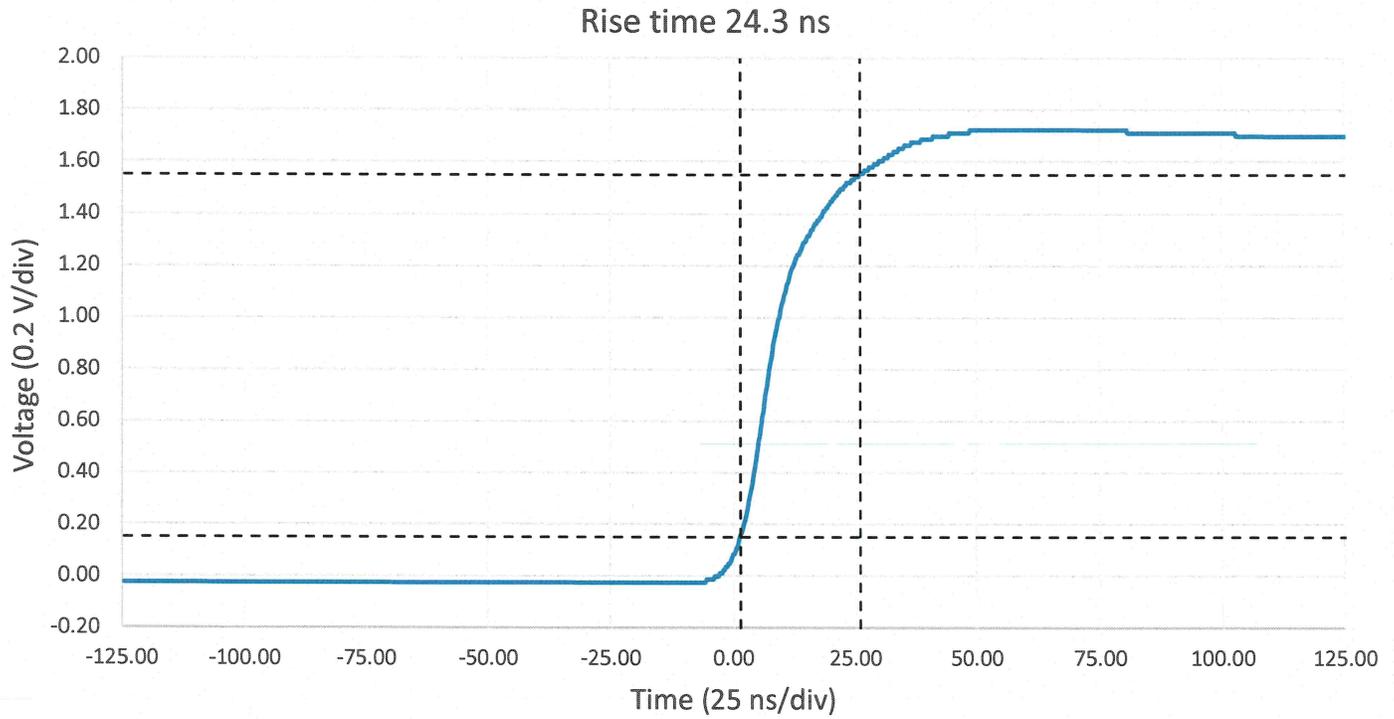
TSS @ -72.5 dBm





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

PL49720/2448

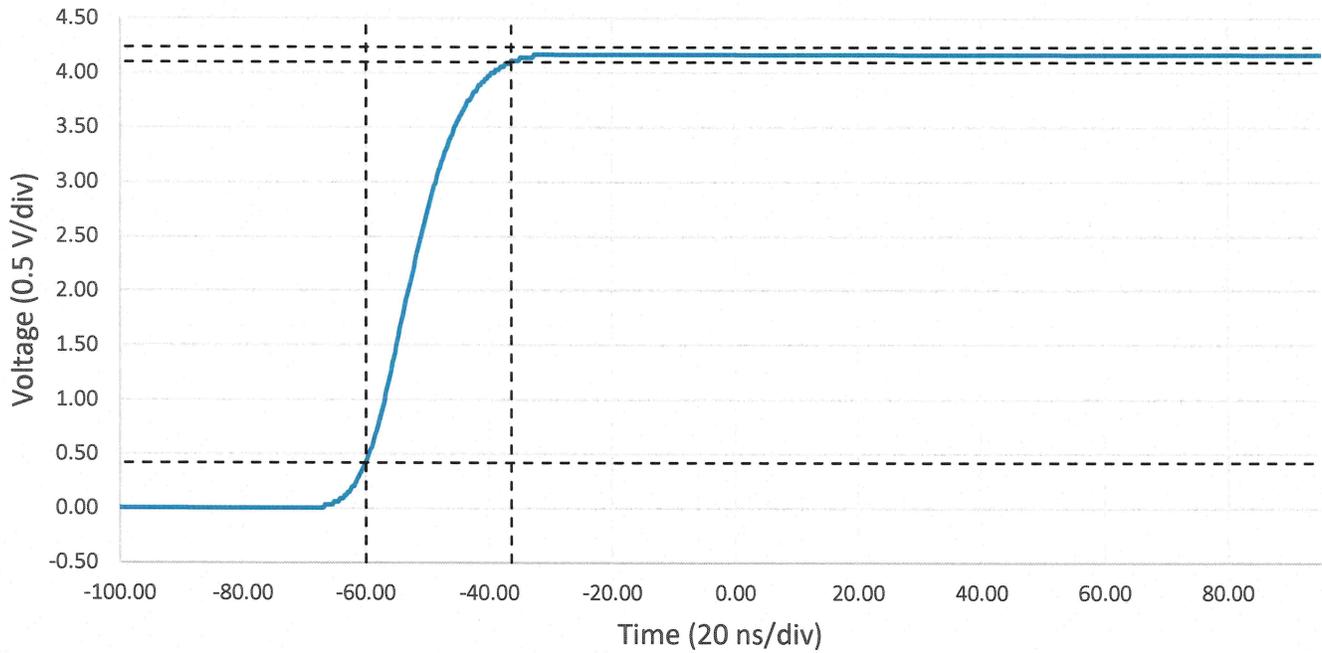




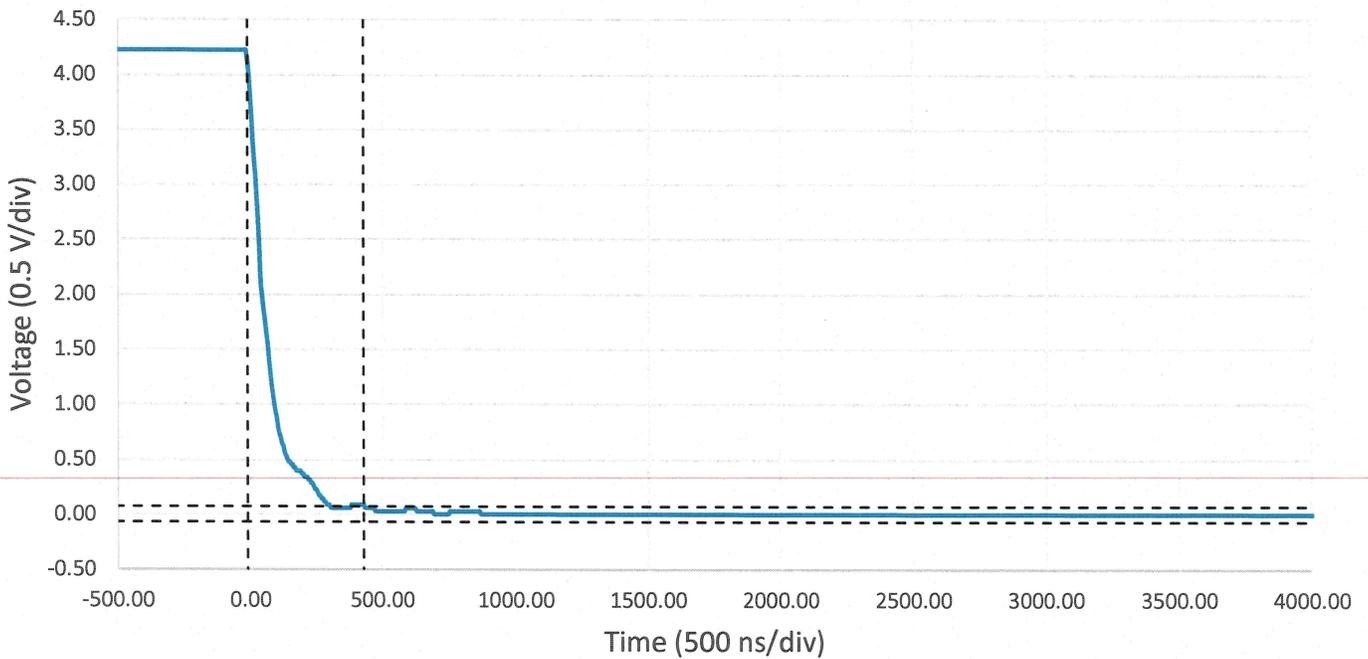
Summary Data  
For  
ERDLVA-2G18G-65-70MV-70C

PL49720/2448

Settle time 23.5 ns



Recovery time 440 ns

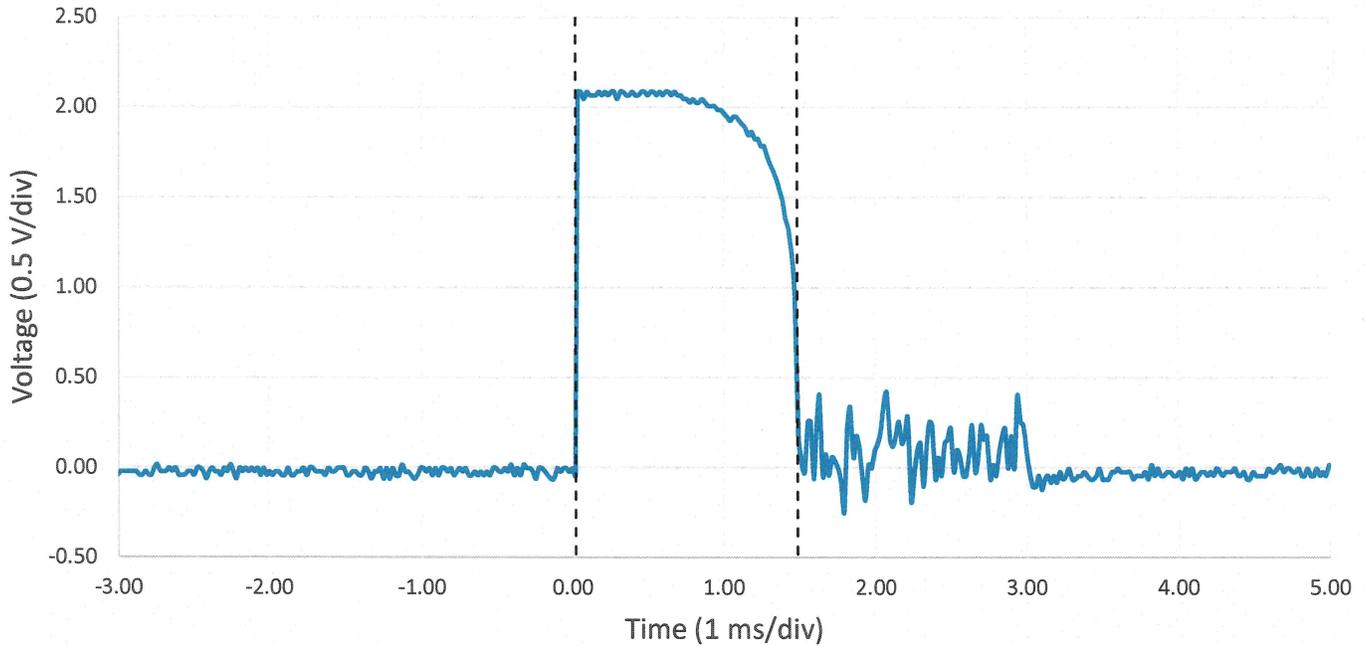




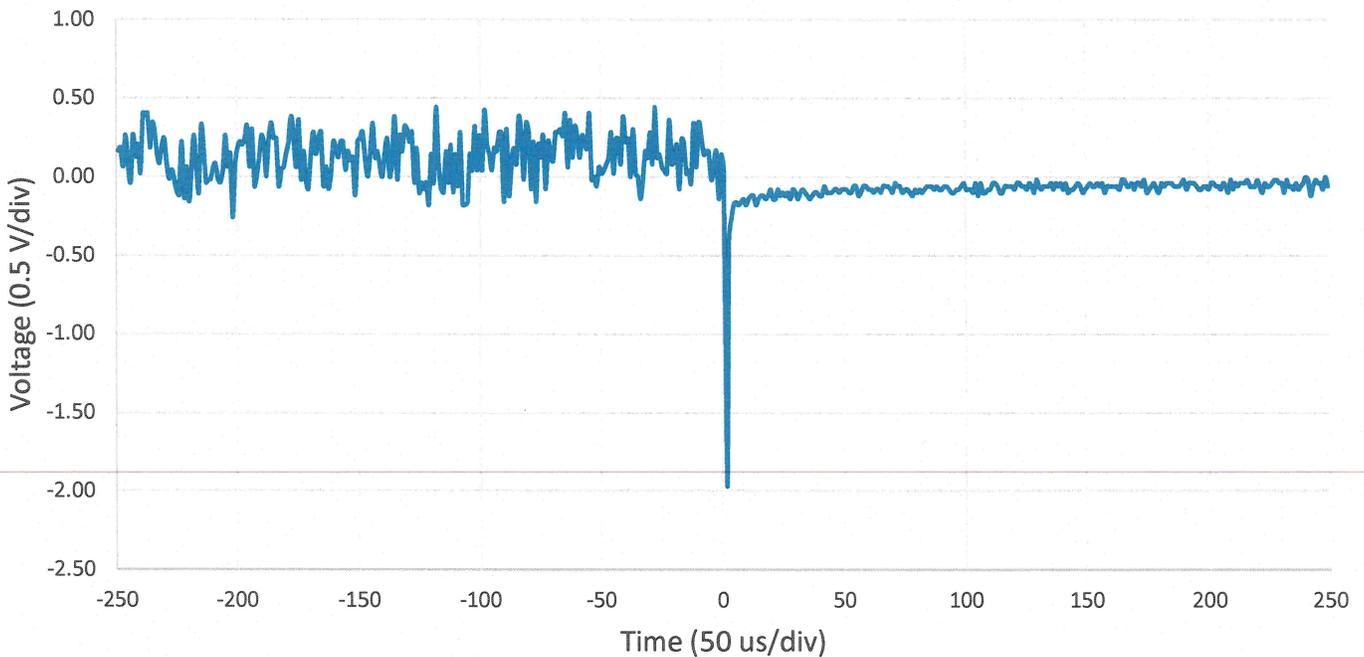
**Summary Data  
For  
ERDLVA-2G18G-65-70MV-70C**

PL49720/2448

CW Immunity 1.46 ms



CW Recovery Plot





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

PL49720/2448

RMS Noise 19.8 mV

