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

Customer: [redacted]
SO No: [redacted]
Model No: ERDLVA-2G18G-65-70MV-70C
Serial No: PL48062/2448

Tested By: Anton L.
Temperature: -40°C TO +70°C
Date 11/25/2024
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 QA
2	VSWR:	2.2:1 MAX @ 50 Ω	**1.76 :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	**- 72.0 dBm**	
5	VIDEO OUT Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
6	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	**70.7 mV/dB** **69.5 mV/dB**	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	**0.61 dB** **-0.61 dB**	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	**0.85 dB** **-1.04 dB**	
9	VIDEO OUT Absolute Log Accuracy:	±2.9 dB MAX Over Freq & temp	**1.07 dB** **-1.18 dB**	
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	**34 mV**	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	**23.8 ns**	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	**188.8 ns**	

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13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	**23.7 ns**	PMI QA3
14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	**0.46 us**	
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	**± 0.83 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	**1.45 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	**142.0 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 @ 320 mA** **-15 V @ 80 mA**	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	**Pass**	

QA/QC Approval: K. Klamm **Date:** 11-25-23

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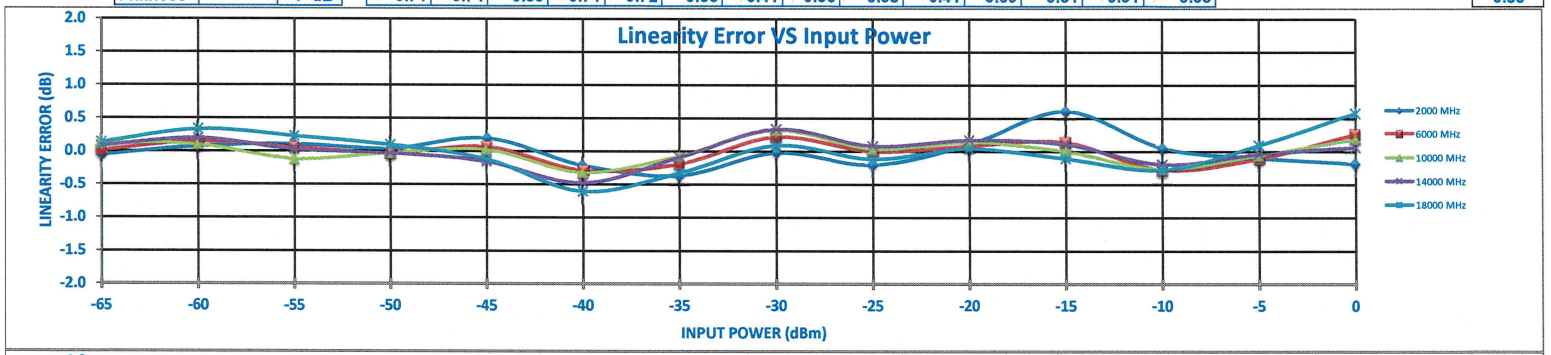
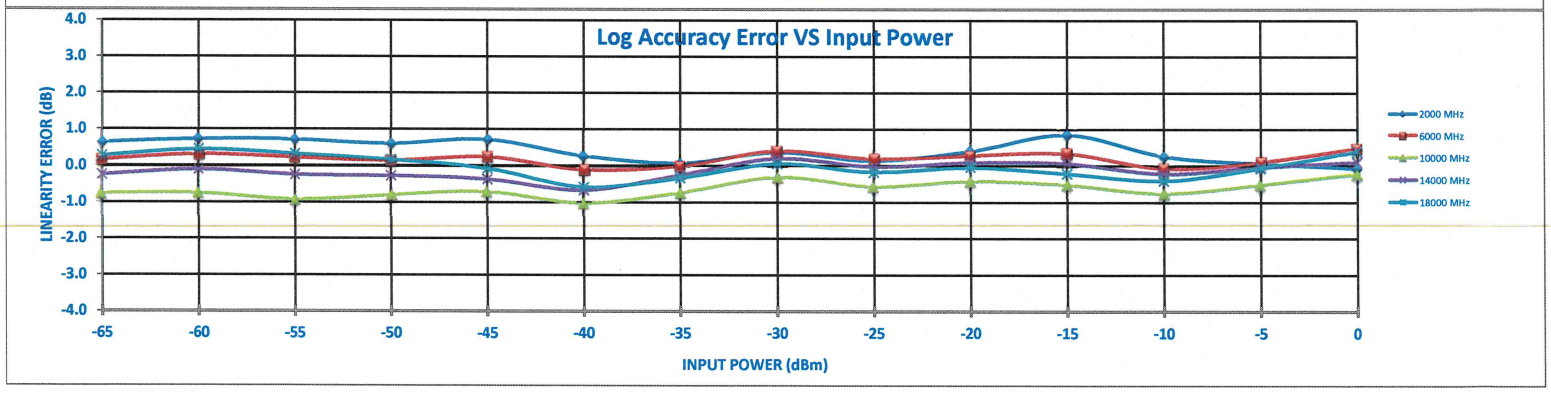
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL48062/2448
DATE: 11/25/2024

Test Temp: 25 °C
Video Offset: 34 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4907	382	739	1089	1432	1791	2110	2447	2819	3154	3523	3906	4215	4552	4894	Measured Value (mV)	
	SLOPE (mV/dB)	69.5	-4	5	7	2	14	-15	-26	-2	-14	7	42	4	-7	-13	Error (mV)	
			-0.06	0.07	0.10	0.03	0.20	-0.22	-0.37	-0.02	-0.20	0.10	0.61	0.05	-0.10	-0.18	LINEARITY ERROR (dB)	0.61
			0.63	0.72	0.71	0.60	0.71	0.26	0.06	0.36	0.14	0.39	0.85	0.26	0.06	-0.07	ACCURACY ERROR (dB)	0.85
6000 MHz	INTERCEPT (mV)	4913	348	709	1054	1399	1757	2083	2441	2821	3157	3514	3869	4191	4554	4931	Measured Value (mV)	
	SLOPE (mV/dB)	70.2	0	10	4	-2	4	-21	-14	15	0	5	9	-20	-8	18	Error (mV)	
			0.00	0.14	0.05	-0.04	0.06	-0.30	-0.20	0.21	0.00	0.08	0.13	-0.28	-0.11	0.25	LINEARITY ERROR (dB)	-0.30
			0.15	0.29	0.21	0.13	0.23	-0.13	-0.02	0.39	0.18	0.27	0.33	-0.09	0.09	0.46	ACCURACY ERROR (dB)	0.46
10000 MHz	INTERCEPT (mV)	4869	283	635	973	1333	1690	2019	2390	2771	3104	3465	3809	4143	4511	4882	Measured Value (mV)	
	SLOPE (mV/dB)	70.7	8	7	-9	-2	1	-23	-5	22	2	10	0	-19	-5	13	Error (mV)	
			0.11	0.09	-0.12	-0.03	0.02	-0.32	-0.08	0.32	0.03	0.13	0.00	-0.27	-0.07	0.18	LINEARITY ERROR (dB)	-0.32
			-0.78	-0.76	-0.94	-0.81	-0.73	-1.04	-0.75	-0.32	-0.58	-0.43	-0.53	-0.77	-0.53	-0.24	ACCURACY ERROR (dB)	-1.04
14000 MHz	INTERCEPT (mV)	4901	319	680	1021	1370	1714	2044	2424	2807	3142	3501	3850	4181	4545	4905	Measured Value (mV)	
	SLOPE (mV/dB)	70.6	5	13	1	-2	-11	-34	-7	23	5	12	8	-14	-3	4	Error (mV)	
			0.07	0.19	0.02	-0.03	-0.16	-0.48	-0.10	0.33	0.08	0.16	0.11	-0.20	-0.04	0.06	LINEARITY ERROR (dB)	-0.48
			-0.27	-0.12	-0.26	-0.29	-0.39	-0.68	-0.27	0.19	-0.03	0.08	0.05	-0.23	-0.04	0.09	ACCURACY ERROR (dB)	-0.68
18000 MHz	INTERCEPT (mV)	4886	356	719	1061	1401	1735	2050	2419	2797	3132	3492	3831	4168	4543	4926	Measured Value (mV)	
	SLOPE (mV/dB)	69.8	9	23	16	7	-9	-43	-23	6	-8	3	-7	-20	6	40	Error (mV)	
			0.13	0.33	0.22	0.09	-0.12	-0.61	-0.33	0.09	-0.12	0.04	-0.11	-0.28	0.09	0.58	LINEARITY ERROR (dB)	-0.61
			0.26	0.44	0.31	0.15	-0.09	-0.60	-0.34	0.05	-0.18	-0.05	-0.22	-0.41	-0.07	0.39	ACCURACY ERROR (dB)	-0.60
	Flatness	+/- dB	0.71	0.74	0.83	0.71	0.72	0.65	0.41	0.36	0.38	0.41	0.69	0.51	0.31	0.35		0.83





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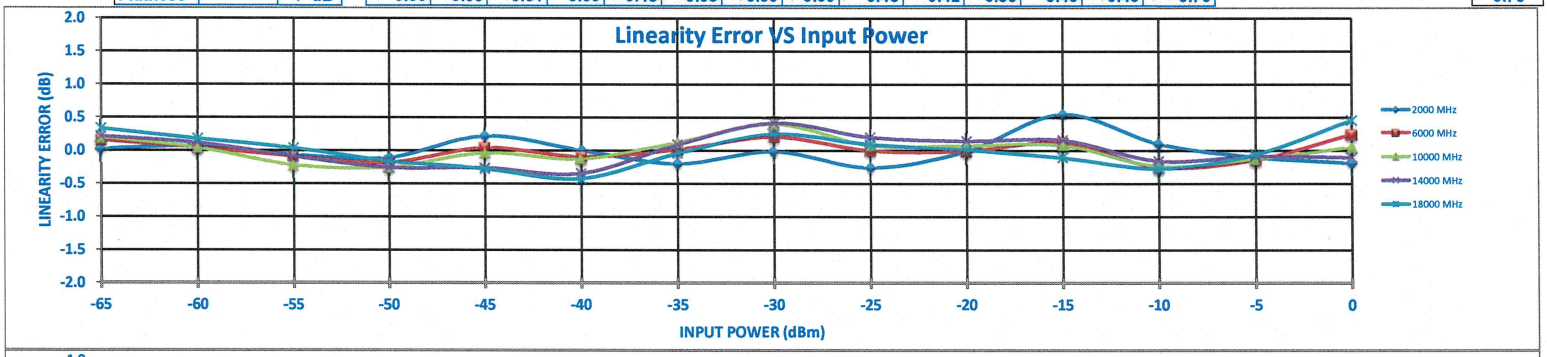
ERDLVA-2G18G-65-70MV-70C

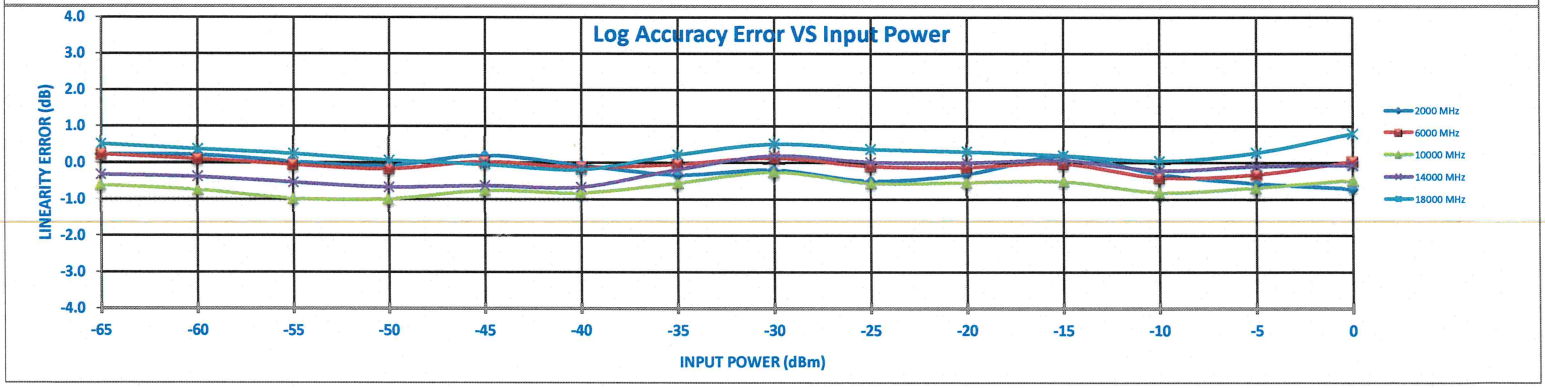
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL48062/2448
DATE: 11/25/2024

Test Temp: -40 °C
Video Offset: -32 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4782	285	634	971	1314	1683	2014	2346	2705	3034	3397	3782	4097	4429	4769	Measured Value (mV)	
	SLOPE (mV/dB)	69.2	1	4	-5	-8	15	0	-14	-1	-18	-1	38	7	-7	-13	Error (mV)	
			0.02	0.06	-0.07	-0.11	0.22	0.00	-0.20	-0.01	-0.26	-0.01	0.55	0.10	-0.10	-0.19	LINEARITY ERROR (dB)	0.55
			0.22	0.21	0.02	-0.08	0.20	-0.08	-0.33	-0.20	-0.50	-0.32	0.18	-0.32	-0.57	-0.71	ACCURACY ERROR (dB)	-0.71
6000 MHz	INTERCEPT (mV)	4805	285	626	965	1307	1671	2010	2366	2728	3062	3410	3767	4090	4446	4821	Measured Value (mV)	
	SLOPE (mV/dB)	69.7	10	3	-7	-13	3	-7	1	14	0	-1	8	-18	-10	16	Error (mV)	
			0.15	0.04	-0.09	-0.19	0.04	-0.10	0.01	0.20	0.00	-0.01	0.11	-0.25	-0.14	0.24	LINEARITY ERROR (dB)	-0.25
			0.22	0.09	-0.06	-0.18	0.02	-0.13	-0.05	0.13	-0.10	-0.13	-0.03	-0.42	-0.33	0.03	ACCURACY ERROR (dB)	-0.42
10000 MHz	INTERCEPT (mV)	4782	226	567	900	1249	1616	1961	2330	2701	3030	3381	3733	4062	4421	4785	Measured Value (mV)	
	SLOPE (mV/dB)	70.3	13	3	-16	-18	-3	-9	5	28	6	5	6	-17	-9	3	Error (mV)	
			0.19	0.04	-0.22	-0.26	-0.04	-0.13	0.12	0.40	0.08	0.07	0.08	-0.24	-0.13	0.05	LINEARITY ERROR (dB)	0.40
			-0.62	-0.75	-0.99	-1.00	-0.76	-0.83	-0.56	-0.26	-0.56	-0.54	-0.52	-0.82	-0.69	-0.49	ACCURACY ERROR (dB)	-1.00
14000 MHz	INTERCEPT (mV)	4821	246	592	931	1272	1625	1972	2356	2732	3070	3419	3773	4104	4462	4814	Measured Value (mV)	
	SLOPE (mV/dB)	70.6	15	8	-6	-18	-19	-25	6	29	14	10	11	-11	-6	-7	Error (mV)	
			0.21	0.11	-0.09	-0.26	-0.26	-0.35	0.09	0.41	0.20	0.14	0.15	-0.16	-0.09	-0.10	LINEARITY ERROR (dB)	0.41
			-0.33	-0.39	-0.55	-0.68	-0.63	-0.68	-0.19	0.18	0.01	0.00	0.06	-0.22	-0.10	-0.07	ACCURACY ERROR (dB)	-0.68
18000 MHz	INTERCEPT (mV)	4843	305	645	986	1323	1666	2006	2384	2755	3095	3440	3783	4122	4488	4875	Measured Value (mV)	
	SLOPE (mV/dB)	70.2	23	12	2	-11	-19	-30	-3	17	6	1	-7	-19	-4	32	Error (mV)	
			0.33	0.18	0.03	-0.16	-0.27	-0.43	-0.04	0.25	0.09	0.01	-0.10	-0.27	-0.06	0.46	LINEARITY ERROR (dB)	0.46
			0.51	0.37	0.24	0.05	-0.05	-0.19	0.21	0.51	0.37	0.30	0.20	0.04	0.27	0.80	ACCURACY ERROR (dB)	0.80
	Flatness	+/- dB	0.56	0.56	0.61	0.53	0.48	0.38	0.39	0.39	0.46	0.42	0.36	0.43	0.48	0.76		0.76





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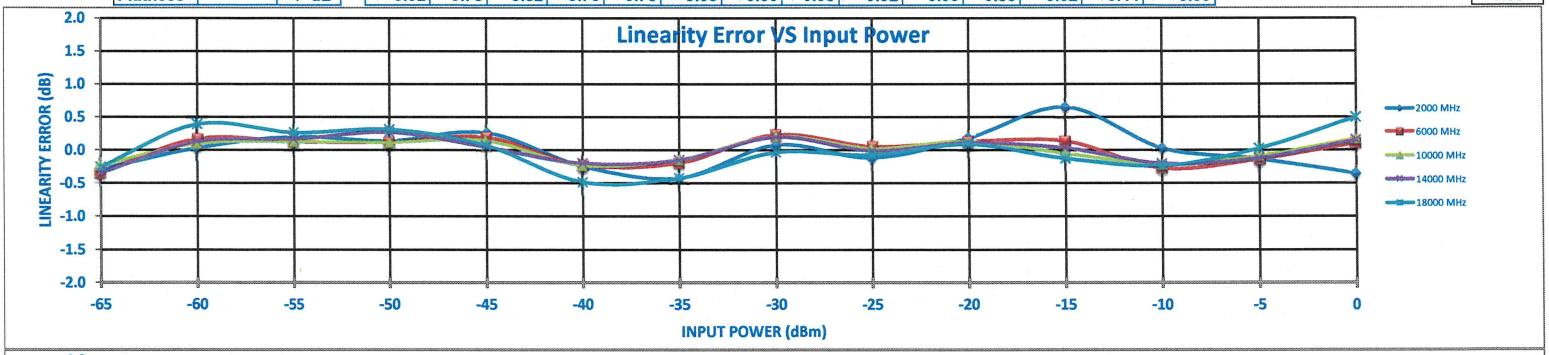
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

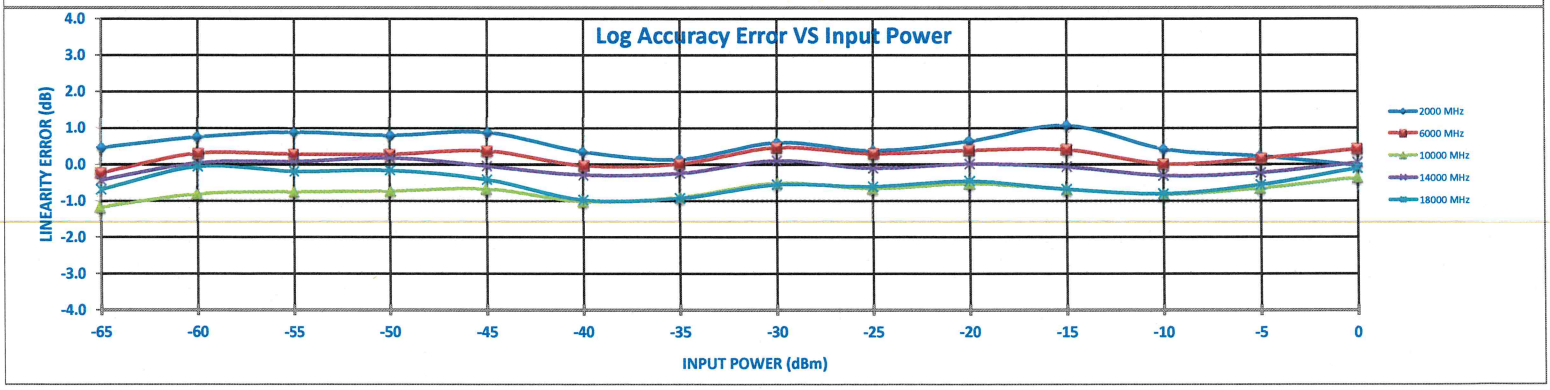
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL48062/2448
DATE: 11/25/2024

Test Temp: 70 °C
Video Offset: 4 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4906	357	728	1088	1432	1789	2102	2438	2821	3156	3525	3906	4211	4548	4881	Measured Value (mV)	
	SLOPE (mV/dB)	69.7	-21	2	14	10	18	-17	-29	5	-8	13	45	2	-9	-25	Error (mV)	
			-0.29	0.03	0.20	0.14	0.26	-0.25	-0.42	0.08	-0.12	0.18	0.65	0.03	-0.13	-0.35	LINEARITY ERROR (dB)	0.65
			0.46	0.75	0.88	0.79	0.88	0.34	0.13	0.59	0.37	0.63	1.07	0.42	0.22	-0.03	ACCURACY ERROR (dB)	1.07
6000 MHz	INTERCEPT (mV)	4905	308	696	1045	1396	1753	2075	2429	2811	3150	3507	3859	4182	4543	4912	Measured Value (mV)	
	SLOPE (mV/dB)	70.3	-25	11	9	8	13	-16	-14	16	3	9	9	-20	-10	7	Error (mV)	
			-0.36	0.16	0.12	0.11	0.19	-0.23	-0.20	0.23	0.05	0.12	0.13	-0.28	-0.15	0.10	LINEARITY ERROR (dB)	-0.36
			-0.24	0.29	0.27	0.27	0.36	-0.04	0.00	0.45	0.29	0.38	0.40	0.00	0.15	0.41	ACCURACY ERROR (dB)	0.45
10000 MHz	INTERCEPT (mV)	4845	242	618	973	1325	1680	2006	2365	2743	3083	3443	3783	4124	4486	4857	Measured Value (mV)	
	SLOPE (mV/dB)	70.6	-17	6	9	8	10	-17	-11	15	2	9	-4	-16	-6	12	Error (mV)	
			-0.24	0.09	0.12	0.11	0.14	-0.24	-0.15	0.21	0.03	0.13	-0.05	-0.22	-0.09	0.17	LINEARITY ERROR (dB)	-0.24
			-1.18	-0.82	-0.76	-0.74	-0.68	-1.03	-0.91	-0.52	-0.67	-0.54	-0.69	-0.83	-0.66	-0.37	ACCURACY ERROR (dB)	-1.18
14000 MHz	INTERCEPT (mV)	4876	294	678	1031	1389	1724	2057	2411	2786	3122	3481	3826	4160	4516	4886	Measured Value (mV)	
	SLOPE (mV/dB)	70.1	-25	9	11	19	3	-14	-11	14	-1	7	2	-15	-9	10	Error (mV)	
			-0.35	0.12	0.16	0.27	0.04	-0.21	-0.16	0.19	-0.01	0.11	0.03	-0.21	-0.13	0.15	LINEARITY ERROR (dB)	-0.35
			-0.44	0.03	0.07	0.17	-0.05	-0.30	-0.25	0.09	-0.11	0.01	-0.07	-0.31	-0.24	0.04	ACCURACY ERROR (dB)	-0.44
18000 MHz	INTERCEPT (mV)	4841	276	671	1012	1365	1698	2009	2363	2740	3087	3448	3783	4125	4493	4876	Measured Value (mV)	
	SLOPE (mV/dB)	70.0	-18	27	18	22	5	-34	-30	-2	-5	6	-9	-17	2	35	Error (mV)	
			-0.26	0.39	0.26	0.31	0.07	-0.48	-0.42	-0.04	-0.07	0.09	-0.13	-0.24	0.02	0.50	LINEARITY ERROR (dB)	0.50
			-0.70	-0.07	-0.20	-0.17	-0.42	-0.99	-0.94	-0.56	-0.61	-0.47	-0.69	-0.81	-0.56	-0.10	ACCURACY ERROR (dB)	-0.99
	Flatness	+/- dB	0.82	0.78	0.82	0.76	0.78	0.68	0.53	0.58	0.52	0.58	0.88	0.62	0.44	0.39		0.88





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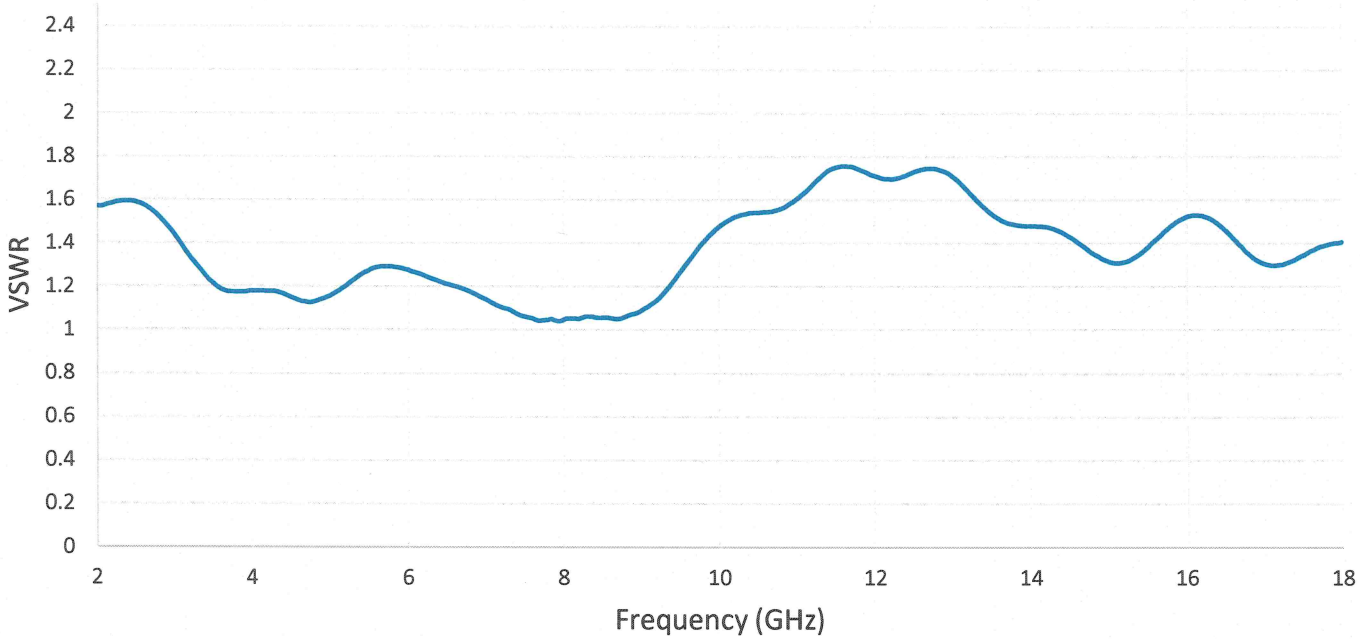
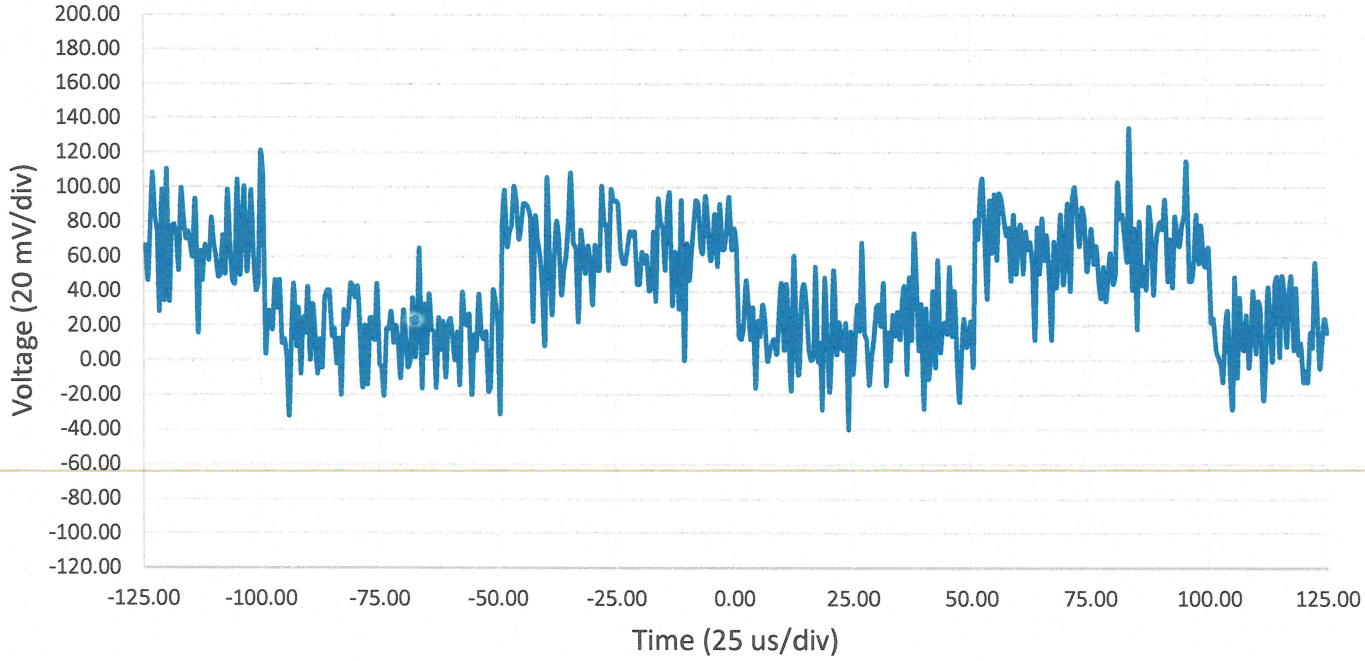
VSWR 1.76:1



TSS @ -72 dBm



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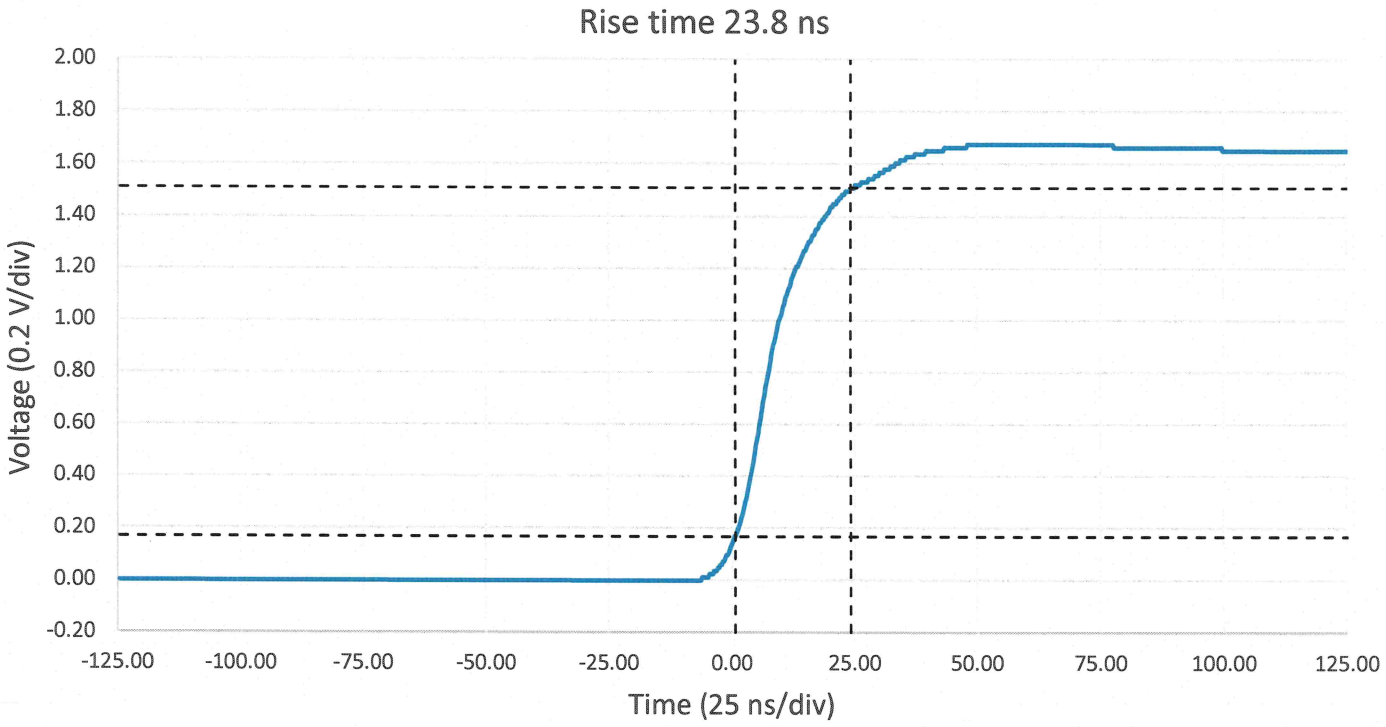

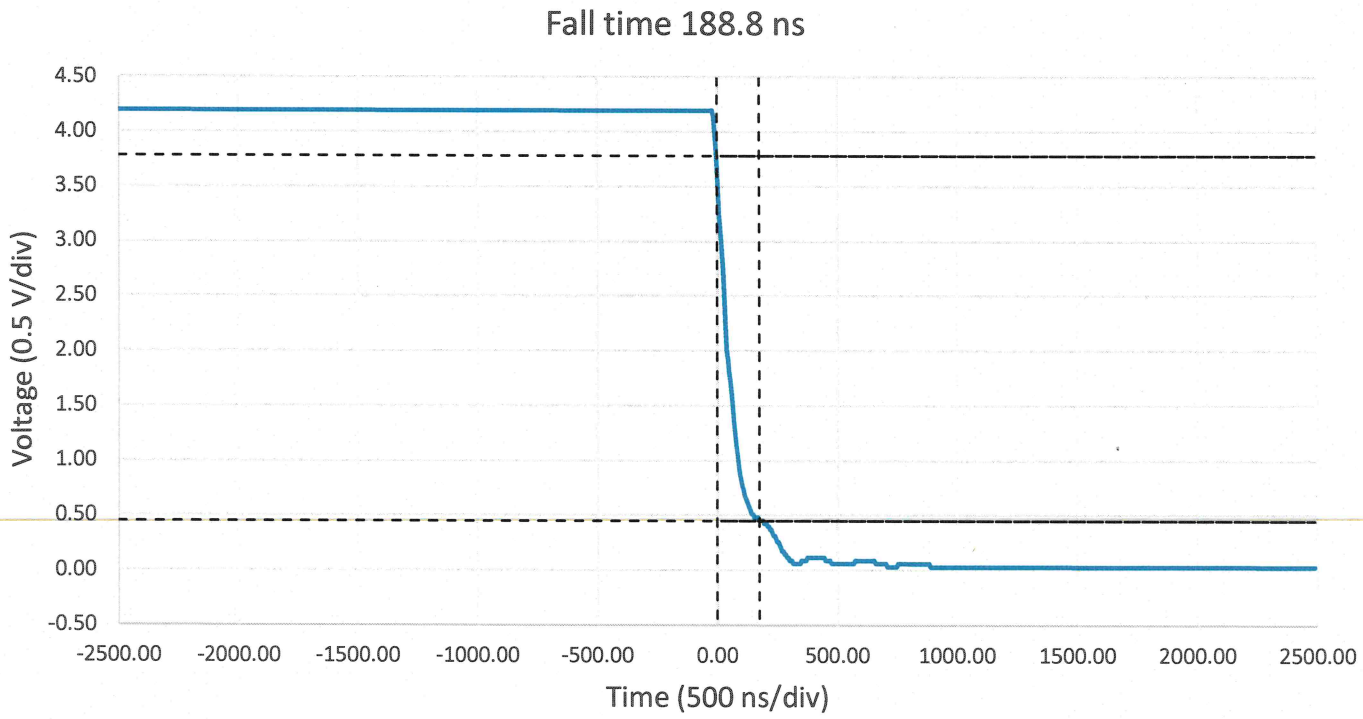

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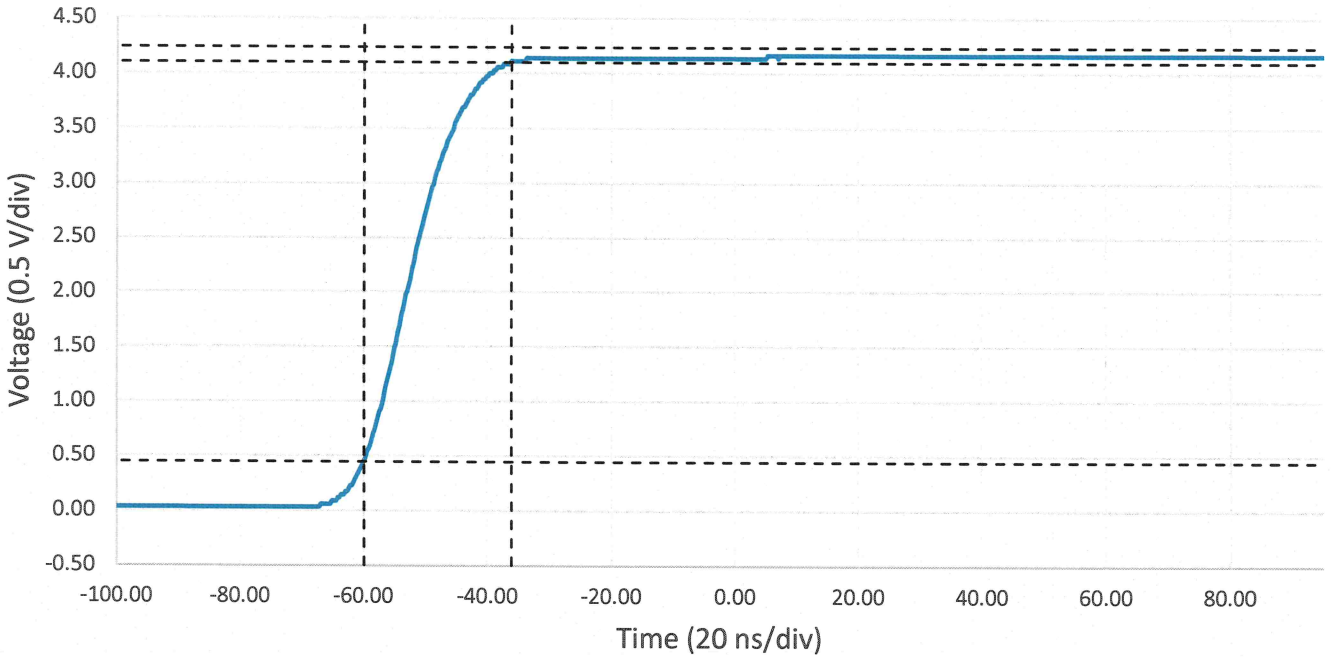
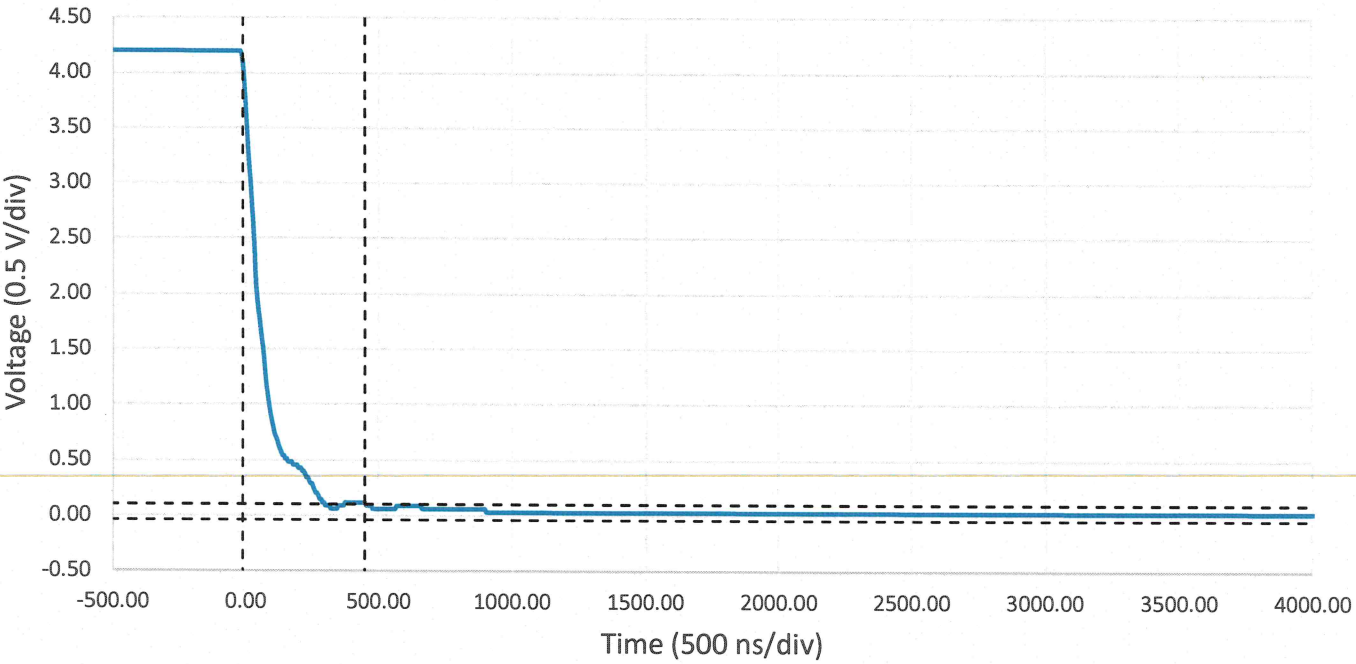
PL48062/2448

Settle time 23.7 ns



Recovery time 460 ns



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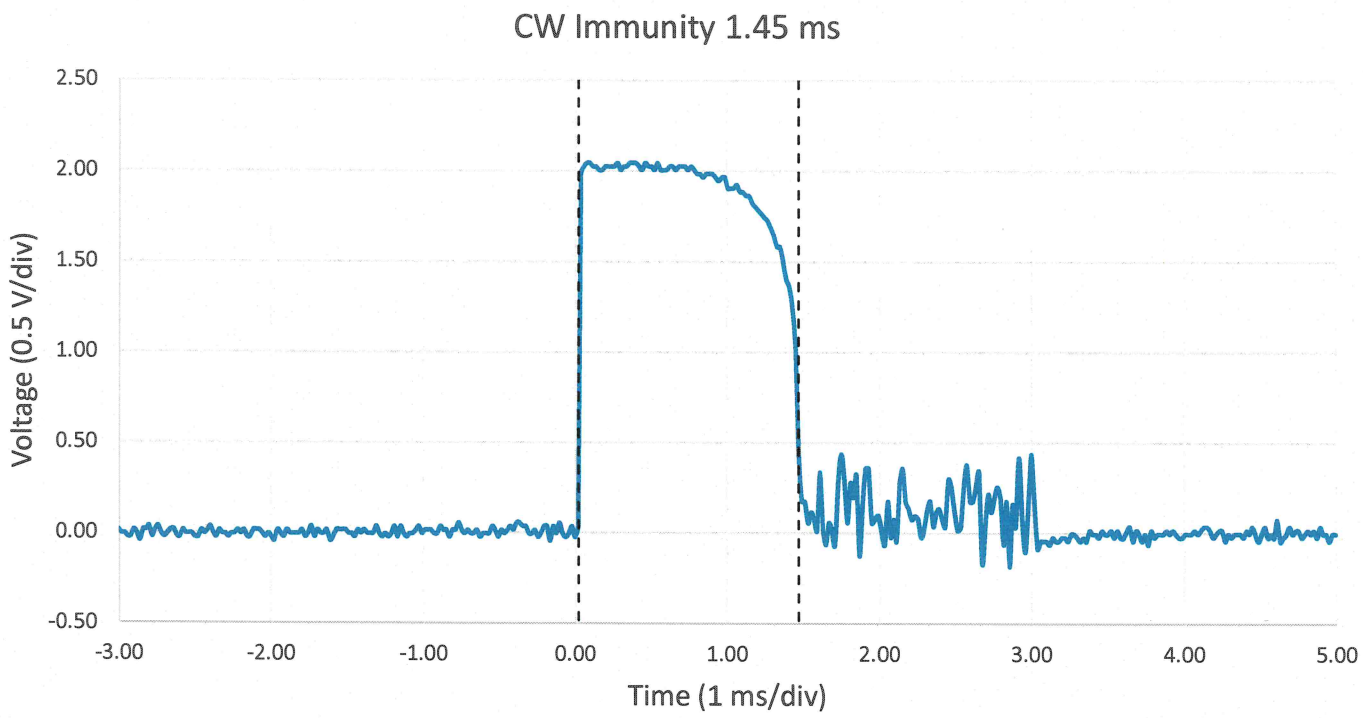
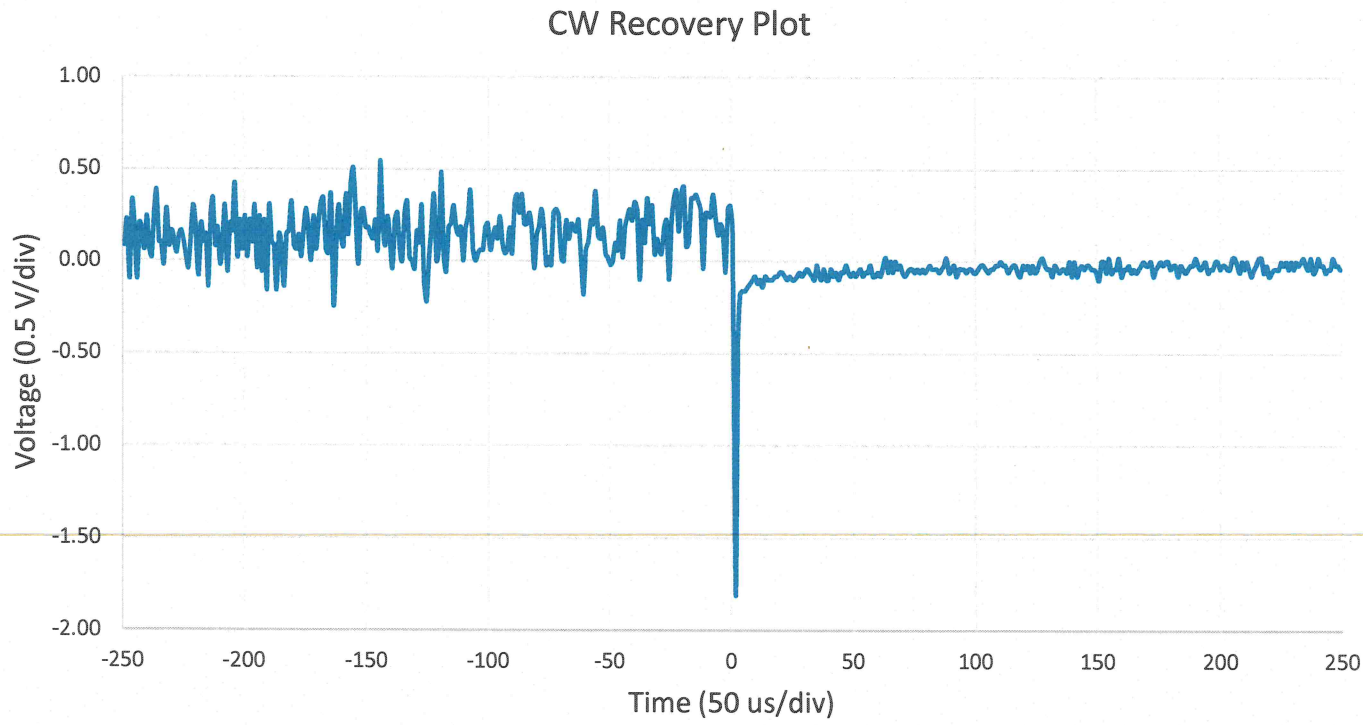
ERDLVA-2G18G-65-70MV-70C

PL48062/2448





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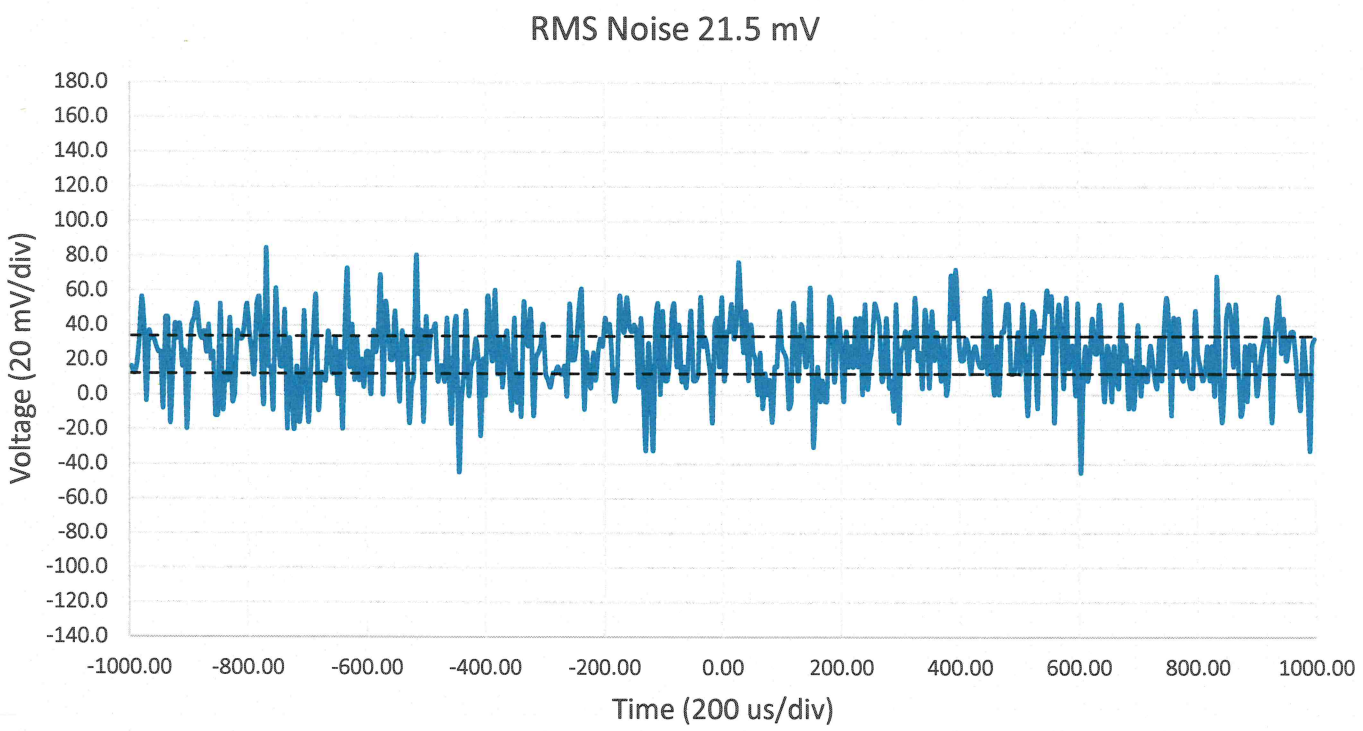
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL48062/2448



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