



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

14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	< 1us	PMI QA3
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	±1.57 dB MAX @25C	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	Pass	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	<2dB	
		Baseline shift 200mV @-40dBm CW	< 200mV	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	1.5 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	
22	VIDEO OUT Noise Level (Vp-p):	160 mV max	153 mV	



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23	VIDEO OUT Propagation Delay:	50 ns MAX from RF 50% to 10% video (excluding cable)	< 50 ns	PMI QA3
24	Power Supply	+15 V @ 500 mA MAX -15 V @ 100 mA MAX	+15 V @ 290 mA 15 V @ 80 mA	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval: _____

H. Lutz

Date: _____

48-13-24

LOG TRANSFERS VS. FREQUENCY
 Model: ERLVA-218-65-70MV-70
 Tested By: Jim Holson
 Date: 08-8-24
 Serial Number: PL40185
 Test Temp: +25°C



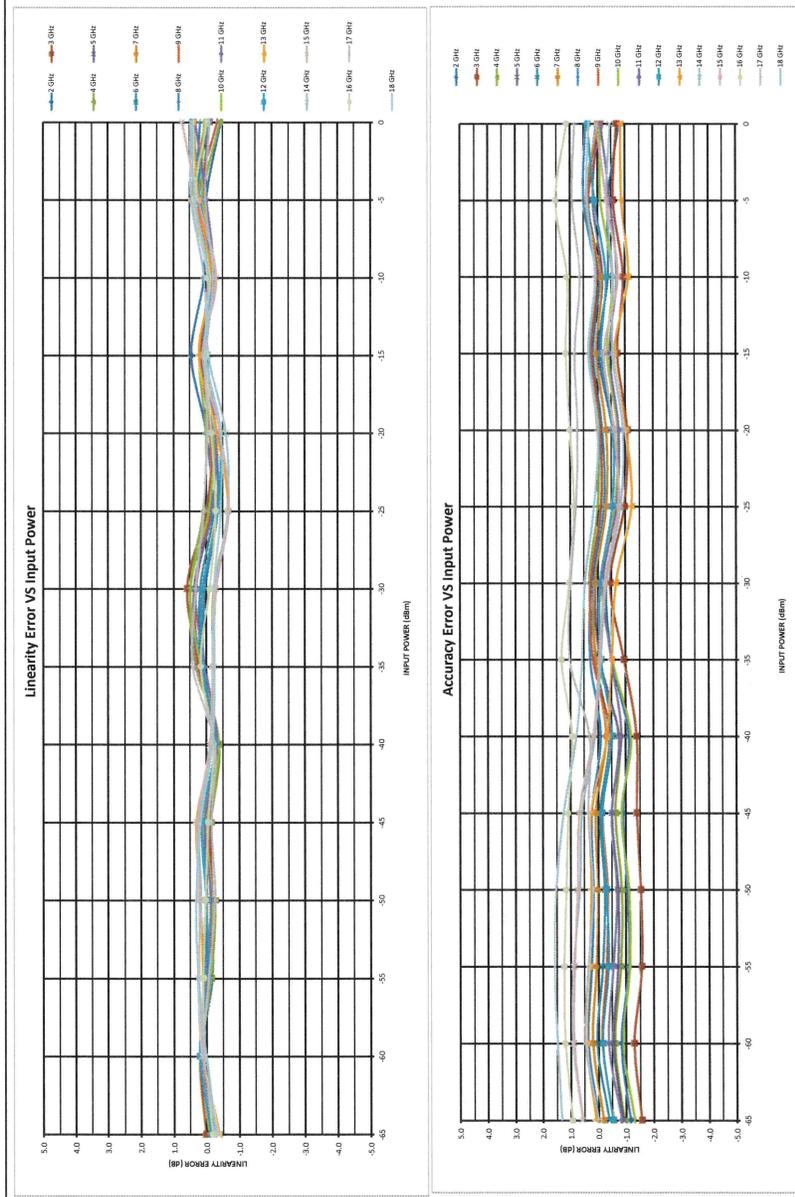
Frequency	Intercept (mV)	Slope (mV/dB)	65	60	55	50	45	40	35	30	25	20	15	10	5	0
2 GHz	Intercept (mV) 4898	Slope (mV/dB) 70.63	300	672	1002	1355	1716	2050	2441	2805	3122	3486	3871	4197	4546	4897
			-0.10	-0.17	-0.16	-0.16	-0.05	-0.32	0.21	0.36	-0.15	0.01	0.46	0.07	0.01	-0.44
			1.15	-0.82	-1.10	-1.06	-0.88	-1.10	-0.50	-0.29	-0.76	-0.53	-0.37	-0.37	-0.37	-0.78
3 GHz	Intercept (mV) 4881	Slope (mV/dB) 70.92	273	641	971	1323	1692	2017	2411	2795	3108	3450	3824	4159	4533	4874
			0.03	0.22	-0.12	-0.16	-0.10	-0.38	0.16	0.59	0.01	-0.17	0.10	-0.17	0.10	-0.09
			-1.53	-1.26	-1.54	-1.50	-1.37	-1.37	-0.84	-0.44	-0.96	-1.06	-0.71	-0.91	-0.56	-0.68
4 GHz	Intercept (mV) 4848	Slope (mV/dB) 71.21	315	688	1022	1369	1734	2073	2479	2848	3175	3525	3896	4229	4600	4919
			-0.07	0.17	-0.14	-0.26	-0.14	-0.38	0.30	0.10	0.01	0.22	-0.10	0.11	0.11	-0.41
			-0.93	-0.59	-0.81	-0.84	-0.62	-0.77	0.04	0.32	0.00	0.01	0.32	0.09	0.40	-0.04
5 GHz	Intercept (mV) 4930	Slope (mV/dB) 70.81	319	692	1029	1378	1743	2075	2472	2853	3154	3504	3878	4211	4585	4922
			-0.13	-0.15	-0.09	-0.19	0.01	-0.32	0.34	0.38	0.11	0.14	0.14	-0.11	0.13	-0.08
			-0.89	-0.53	-0.71	-0.72	-0.49	-0.72	-0.68	0.11	-0.30	-0.29	0.07	-0.17	0.18	0.01
6 GHz	Intercept (mV) 4929	Slope (mV/dB) 70.17	353	733	1068	1412	1773	2099	2484	2837	3159	3513	3885	4219	4596	4925
			-0.20	0.21	-0.01	-0.11	0.03	-0.32	0.16	0.20	-0.22	-0.17	0.13	-0.11	0.26	-0.05
			-0.39	0.05	-0.15	-0.23	-0.06	-0.40	0.11	0.17	-0.23	-0.16	-0.17	-0.05	0.34	0.05
7 GHz	Intercept (mV) 4920	Slope (mV/dB) 69.80	368	745	1085	1430	1785	2108	2484	2834	3154	3504	3877	4211	4585	4921
			-0.22	0.18	0.05	-0.01	0.08	-0.29	0.09	0.11	-0.31	-0.20	0.05	-0.12	0.44	0.01
			-0.17	0.22	0.09	0.03	0.11	-0.27	0.11	0.12	-0.30	-0.20	0.05	-0.13	0.43	-0.01
8 GHz	Intercept (mV) 4939	Slope (mV/dB) 69.95	380	756	1096	1441	1795	2121	2497	2843	3166	3522	3896	4228	4608	4952
			-0.12	0.15	0.04	0.00	0.06	-0.28	0.10	0.04	-0.24	-0.28	0.09	-0.16	0.27	0.19
			0.00	0.38	0.25	0.19	0.25	-0.08	0.30	0.25	-0.13	-0.03	0.32	0.07	0.51	0.44
9 GHz	Intercept (mV) 4932	Slope (mV/dB) 70.32	342	721	1069	1405	1767	2096	2480	2845	3168	3518	3890	4225	4597	4909
			-0.27	0.12	-0.08	-0.16	-0.01	-0.33	0.27	0.32	-0.06	-0.11	0.18	-0.05	0.24	-0.32
			-0.54	-0.12	-0.28	-0.33	-0.15	-0.44	0.20	0.28	-0.10	-0.09	0.24	0.03	0.35	-0.18
10 GHz	Intercept (mV) 4911	Slope (mV/dB) 70.98	290	667	1000	1351	1719	2045	2440	2816	3132	3474	3850	4185	4565	4915
			-0.10	0.21	-0.10	-0.18	0.03	-0.38	0.19	0.49	-0.06	-0.29	0.05	-0.13	0.13	0.08
			-1.29	-0.89	-1.13	-1.10	-0.94	-1.17	-0.92	-0.81	-0.72	-0.58	-0.34	-0.24	-0.10	-0.09
11 GHz	Intercept (mV) 4891	Slope (mV/dB) 70.03	322	704	1041	1381	1744	2068	2443	2814	3128	3471	3843	4175	4541	4915
			-0.24	0.22	0.03	-0.12	0.07	-0.31	0.05	0.34	-0.27	-0.17	0.04	-0.22	0.00	0.35
			-0.83	-0.36	-0.54	-0.67	-0.48	-0.84	-0.47	-0.16	-0.67	-0.76	-0.44	-0.68	-0.45	-0.09
12 GHz	Intercept (mV) 4919	Slope (mV/dB) 70.25	343	719	1053	1408	1768	2092	2489	2820	3138	3486	3865	4202	4581	4947
			-0.33	-0.15	0.22	0.05	-0.24	0.13	0.32	0.53	-0.03	-0.10	-0.21	0.19	0.40	0.40
			-0.53	-0.15	-0.37	-0.28	-0.13	-0.50	-0.10	-0.08	-0.53	-0.55	-0.12	-0.30	0.13	0.37
13 GHz	Intercept (mV) 4837	Slope (mV/dB) 66.06	388	760	1102	1447	1796	2105	2442	2781	3091	3454	3832	4147	4513	4864
			-0.37	0.10	0.13	0.19	0.32	-0.14	-0.19	-0.20	-0.65	-0.32	0.24	-0.13	0.24	0.40
			0.11	0.44	0.33	0.27	0.27	-0.31	-0.49	-0.64	-1.20	-1.00	-0.59	-1.08	-0.85	-0.82
14 GHz	Intercept (mV) 4865	Slope (mV/dB) 67.81	422	794	1142	1475	1819	2135	2470	2805	3117	3460	3836	4184	4550	4890
			-0.33	0.15	0.27	0.18	0.24	-0.11	-0.24	-0.65	-0.60	-0.06	0.06	0.07	0.45	0.46
			0.60	0.93	0.91	0.67	0.60	0.12	-0.09	-0.29	-0.83	-0.92	-0.54	-0.56	-0.32	-0.45
15 GHz	Intercept (mV) 4874	Slope (mV/dB) 68.18	421	792	1140	1481	1826	2140	2474	2809	3123	3482	3858	4172	4551	4925
			-0.31	0.13	0.23	0.29	0.10	-0.20	-0.29	-0.68	-0.42	0.20	-0.22	0.20	0.58	0.73
			0.89	0.90	0.88	0.76	0.70	0.19	-0.93	-0.23	-0.74	-0.60	-0.20	-0.32	-0.50	0.03
16 GHz	Intercept (mV) 5003	Slope (mV/dB) 69.92	446	814	1166	1510	1854	2193	2569	2889	3236	3595	3955	4301	4679	5001
			-0.18	0.09	0.12	0.04	-0.04	-0.19	0.19	0.09	-0.27	-0.14	0.01	-0.04	0.37	-0.03
			0.94	1.21	1.25	1.17	1.10	0.95	1.33	1.05	0.88	1.01	1.17	1.12	1.53	1.14
17 GHz	Intercept (mV) 4888	Slope (mV/dB) 70.54	391	762	1104	1443	1803	2149	2548	2895	3230	3575	3932	4288	4637	4990
			-0.09	0.10	-0.05	-0.21	0.24	-0.54	0.24	0.34	0.09	-0.02	0.04	-0.20	0.03	-0.11
			0.01	0.47	0.36	0.21	0.37	0.32	1.03	1.00	0.79	0.75	0.84	0.65	0.93	0.84
18 GHz	Intercept (mV) 4916	Slope (mV/dB) 66.07	473	833	1190	1535	1886	2192	2517	2859	3185	3524	3897	4220	4600	4944
			-0.27	0.01	0.26	0.33	0.19	-0.17	-0.24	-0.22	-0.43	-0.45	-0.23	-0.08	0.36	0.41
			1.33	1.48	1.59	1.53	1.27	0.79	0.59	0.48	0.15	0.00	0.34	0.10	0.40	0.32

Output Vocs: 29.0 mV

Avg Slope: **69.0 mV/dB**
 Max Slope: **71.2 mV/dB**
 Min Slope: **67.9 mV/dB**

Max Measured (mV)
 Min Measured (mV)
 Flatness Error (Vr/dB)

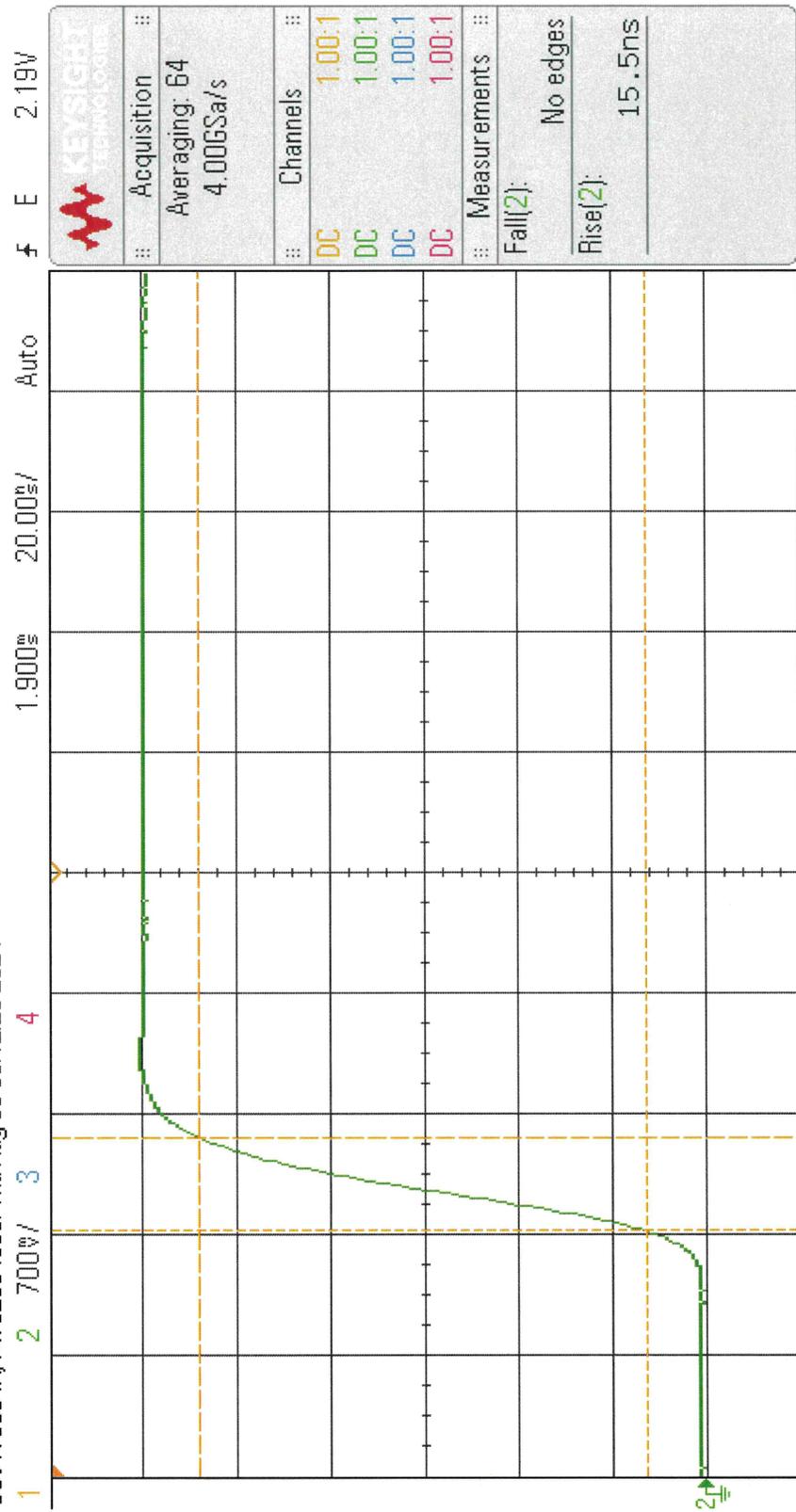
PL40185



PL40185

settle

DSO-X 3034A, MY52394003, Thu Aug 08 09:12:29 2024

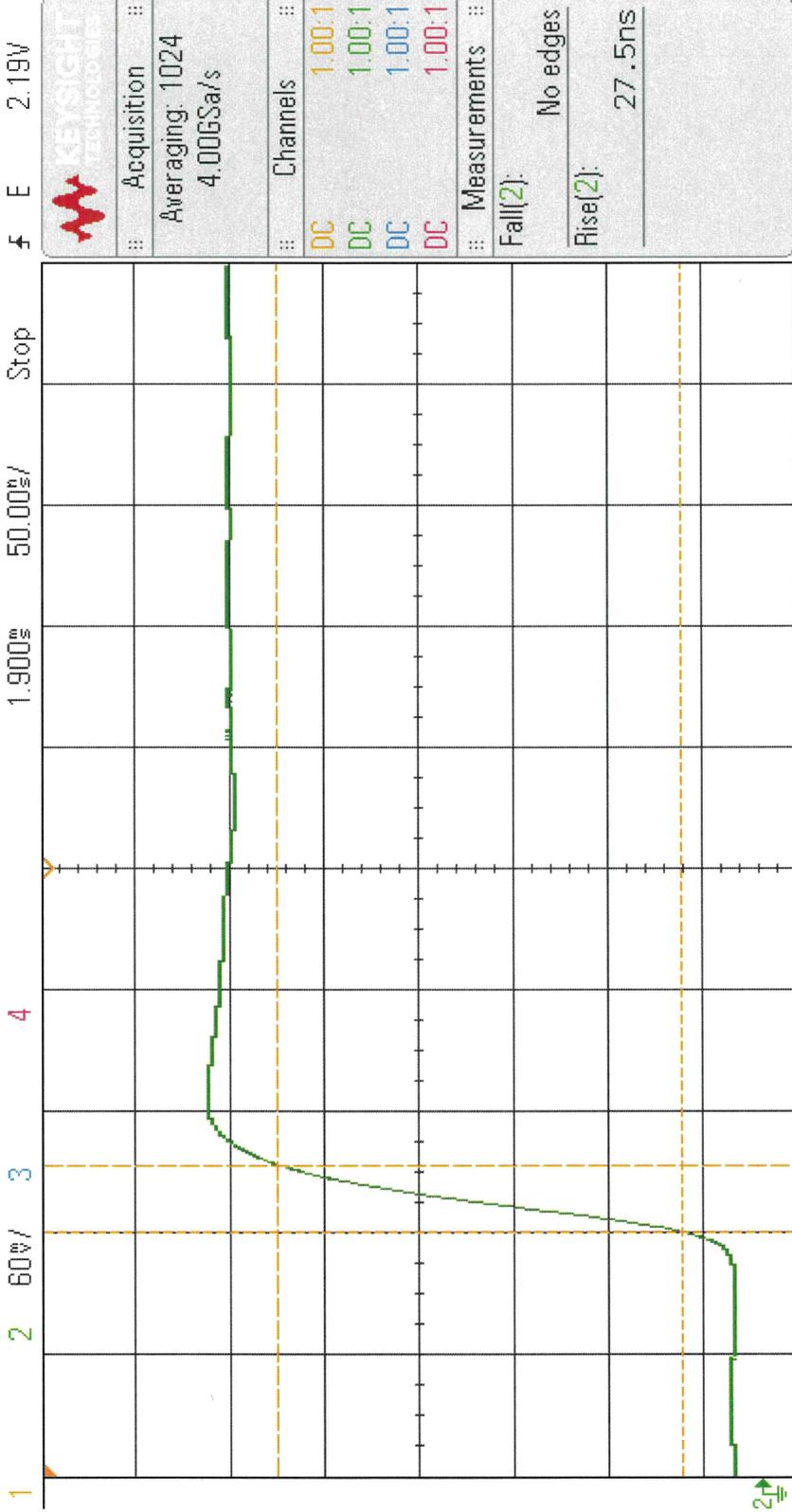


Measurement Menu

- Source 2
- Type: Rise
- Add Measurement
- Settings
- Clear Meas
- Statistics

PL40185
Rise Time

DSO-X 3034A, MY62394003, Thu Aug 08 09:13:43 2024



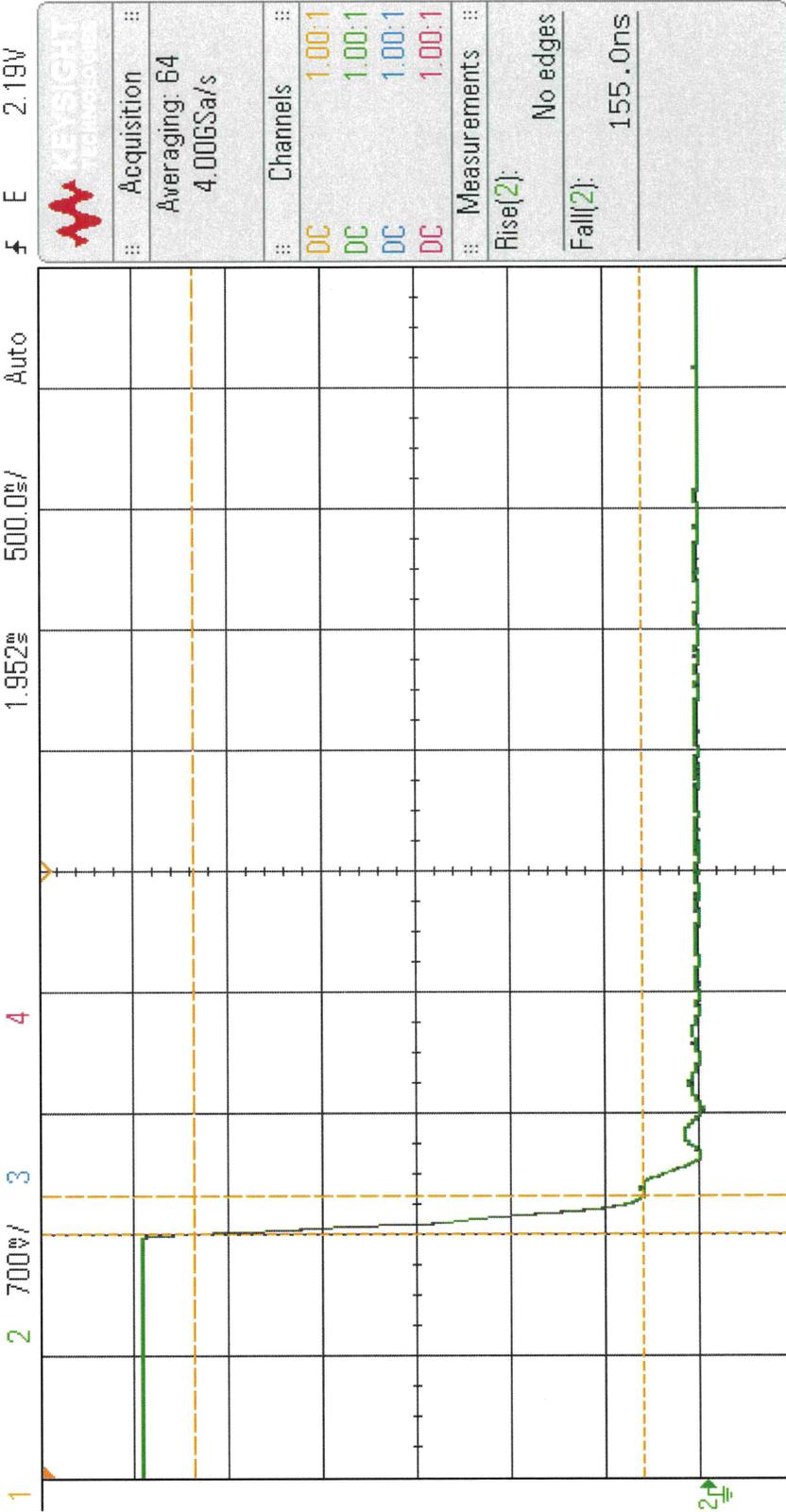
Acquire Menu

Acq Mode Averaging
Avgs 1024

Segmented

PL40185
Recovery

DSO-X 3034A, MY52394003: Thu Aug 08 09:11:21 2024



± E 2.19V

KEYSIGHT
Technologies

Acquisition ::
Averaging: 64
4.006Sa/s

Channels ::
DC 1.00:1
DC 1.00:1
DC 1.00:1
DC 1.00:1

Measurements ::
Rise(2): No edges
Fall(2): 155.0ns

Acquire Menu

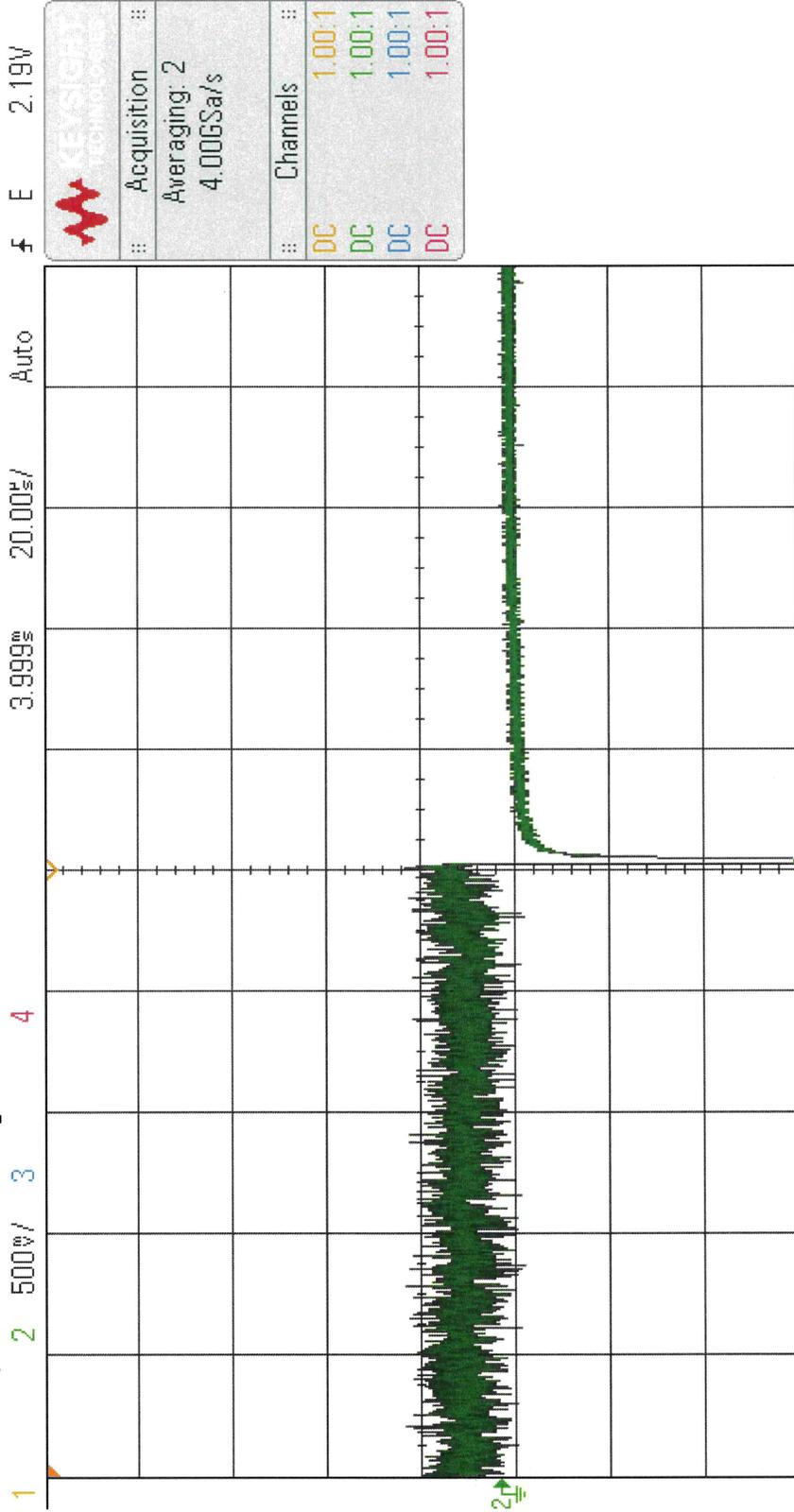
Acq Mode
Averaging

Avgs
64

Segmented

PL40185
CW Recovery

DSO-X 3034A, MY52394003: Wed Aug 07 13:35:37 2024



Save to file = pl40185_cw_recovery

Save →

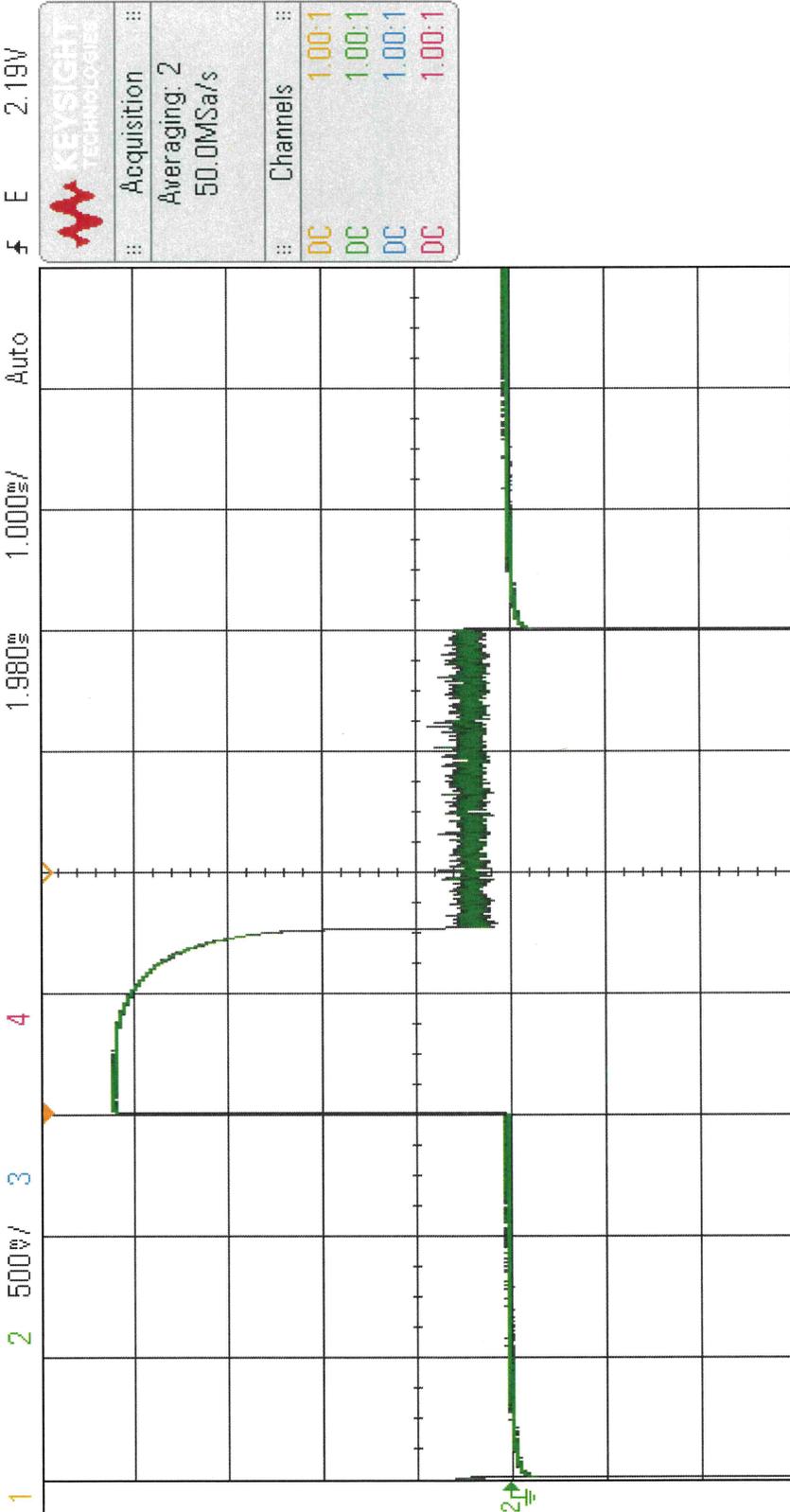
Recall →

Default/Erase →

Press to Save

PL40185
cw Immune

DSO-X 3034A, MY52394003: Wed Aug 07 13:36:15 2024



KEYSIGHT TECHNOLOGIES

Acquisition ::
Averaging: 2
50.0MSa/s

Channels ::
DC 1.00:1
DC 1.00:1
DC 1.00:1
DC 1.00:1

f E 2.19V

Save to file = pl40185_cw Immune

Save

Recall

Default/Erase

Press to Save

RMA REPAIR REPORT

RMA NO: 2405-085	PMI MODEL No.: 27342040 Customer MODEL No.: NA	SERIAL No: PL40185/2317
DATE RECEIVED: 05/22/2024	JOB NO: 20240307-R	WARRANTY [X] Yes [] No
CUSTOMER: HI Intelligence	CONTACT NAME: George Chang	TEL#: 916-542-1401
CUSTOMER RTV#: LJ-20008-4	RETURN P.O.: 20240307	
CUSTOMER COMPLAINT: Failed incoming Test.		Verified [X] Yes [] No
OBSERVATIONS: Channel 1 was bad.		
REPAIR ACTIONS: Changed out IC that was bad. Returned RF & Video for better margins, verified all other specs passing.		
SUSPECTED ROOT CAUSE: Unknown cause resulted in IC chip failing.		
INTERNAL CORRECTIVE ACTION REQUIRED [] Yes [X] No		CAR NUMBER:
QA Inspector: <i>Arthur Zimmerman</i> Final Inspection & Document Review IAW PMI-Q-P-7008 and PMI-Q-P-7017		DATE: 08/12/2024

Quantic PMI

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