Summary Data
For
EWDM-6G18G-65-70MV-1

Customer: [redacted] **Tested By:** Jim Hopson

SO No: [redacted] **Temperature:** 0°C TO +85°C

Model No: EWDM-6G18G-65-70MV-1 **Date** 7/18/2024

Serial No: PL40928/2331 **Drawing No:** 27637972 **Rev:** A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	6 to 18 GHz	**6 to 18 GHz**	PMI QA3
2	VSWR:	2.2:1 MAX @ 50 Ω	**1.81:1 @ 50 Ω (RF IN)** **1.67:1 @ 50 Ω (BIT IN)** **1.68:1 @ 50 Ω (RF OUT)** **1.51:1 @ 50 Ω (SW OUT)**	
3	Noise Figure:	6 dB MAX	**4.6 dB TYP**	
4	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	**Pass**	
5	TTL Control	See Logic Table	**Pass**	
6	SP3T Switch Isolation	60 dB MIN (All Ports)	**> 60 dB**	
7	SP3T Switching Speed:	100 ns MAX	**50 ns**	
8	RF OUT Linear Gain	+33 dB MIN, 39 dB MAX	**34.2 dB Avg.**	
9	RF OUT Frequency Flatness:	±2.5 dB MAX	**±0.96 dB**	
10	RF OUT 1 dB Compression Point:	+3 dBm MIN	**10.8 dBm**	
11	RF OUT Second Harmonic:	-9 dBc MIN	**-26 dBc**	
12	RF OUT Third Harmonic:	-12 dBc MIN	**-38 dBc**	

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13	SW Linear Gain	+7 dB MIN, 15 dB MAX	**12.6 dB Avg.**	PMI QA3
14	SW Frequency Flatness:	±1.5 dB MAX	**±0.75 dB**	
15	SW 1 dB Compression Point:	+3 dBm MIN	**5.4 dBm**	
16	SW Saturated Power:	+9 dBm MAX	**7.1 dBm**	
17	SW Second Harmonic:	-9 dBc MIN	**-25 dBc**	
18	SW Third Harmonic:	-12 dBc MIN	**-35 dBc**	
19	VIDEO OUT TSS:	-71 dBm MAX	**-71 dBm**	
20	VIDEO OUT Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
21	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	**69.9 mV/dB**	
22	VIDEO OUT Log Linearity:	±1.0 dB MAX @12 GHZ	**+0.65 / -0.67 dB**	
23	VIDEO OUT Log Accuracy:	±2.0 dB MAX	**+1.73 / -1.66 dB**	
24	VIDEO OUT Absolute Log Accuracy:	±2.25 dB MAX	**+1.92 / -2.03 dB**	
25	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	**13 mV**	
26	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	**16.8 ns**	
27	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	**177.2 ns**	
28	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	**40 ns typ**	

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29	VIDEO OUT Recovery Time:	0.5 us MAX to within 1 dB of baseline	**< 0.5 us**	PMI QA3
30	VIDEO OUT Video Frequency Flatness:	±1.75 dB MAX	**±1.29 dB**	
31	VIDEO OUT CW Immunity:	A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX	**125 mV TYP**	
		B. Pulse Peak Amplitude Loss; 2 dB MAX	**1.7 dB TYP**	
		CW Immunity Time at CW = -40 dBm, ≤ 3 ms	**1.2ms**	
		CW Recovery Time at CW = -40 dBm, ≤ 50 us	**40 us TYP**	
32	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	**100 ns to 300 us**	
33	VIDEO OUT Impedance:	75 ±1 Ω	**75 Ω**	
34	VIDEO driver capability	150 ft RG11 into 75 ohm load	**PASS**	
35	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**	
36	VIDEO OUT Noise Level (Vp-p):	160 mV TYP	**140mV TYP**	
37	Droop of the Output Video Pulse: @ -65 dBm & 300 us pulse width	70mV (1 dB) MAX	**45 mV TYP**	

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38	VIDEO OUT Propagation Delay:	50 ns MAX (excluding cable)	**33 ns**	PMI QA3
39	Power Supply	+15 V @ 1000 mA MAX -15 V @ 500 mA MAX	**+15 V @ 630 mA** **-15 V @ 140 mA**	
40	Power Supply Ripple From DC to 10 MHz	100 mV MAX	**PASS**	

QA/QC Approval: K. Mitchell **Date:** 7-19-24

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LOG TRANSFER WITH FREQUENCY

TESTED BY: Jim Hopson
MODEL: EWDM-6G18G-65-70MV-1
SERIAL NO: PL40928 RF
DATE: 07/18/24

Test Temp: 25C
Video Offset: 0.013

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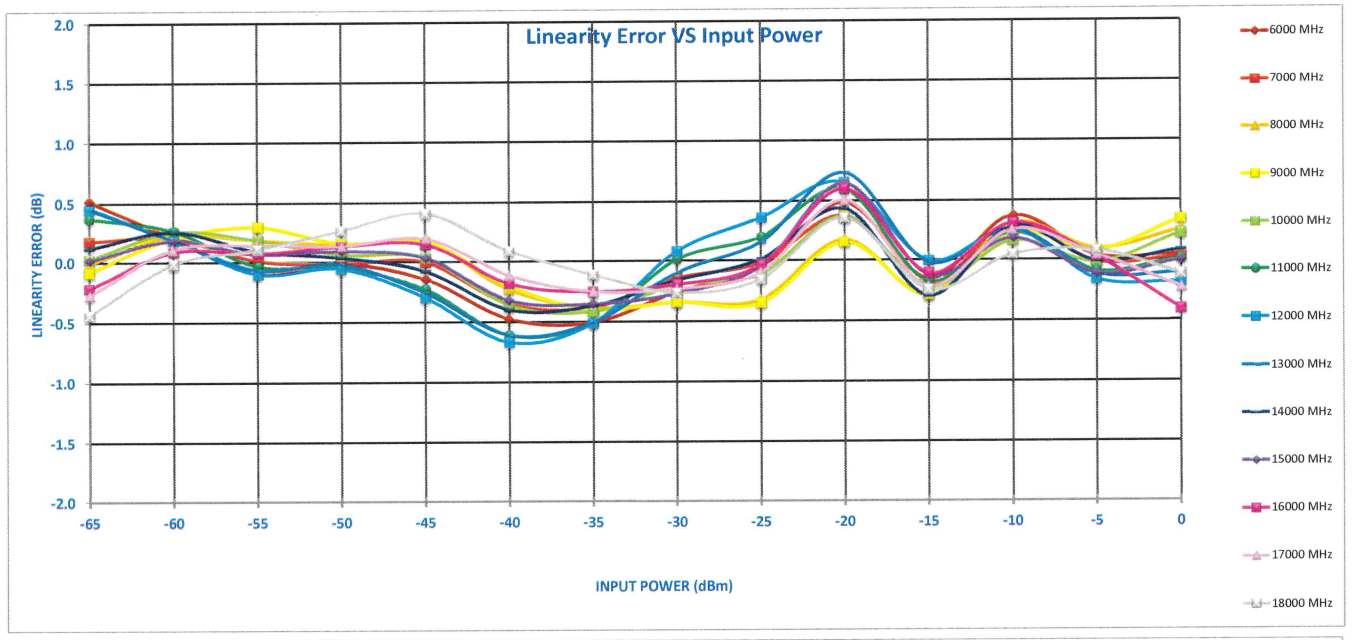
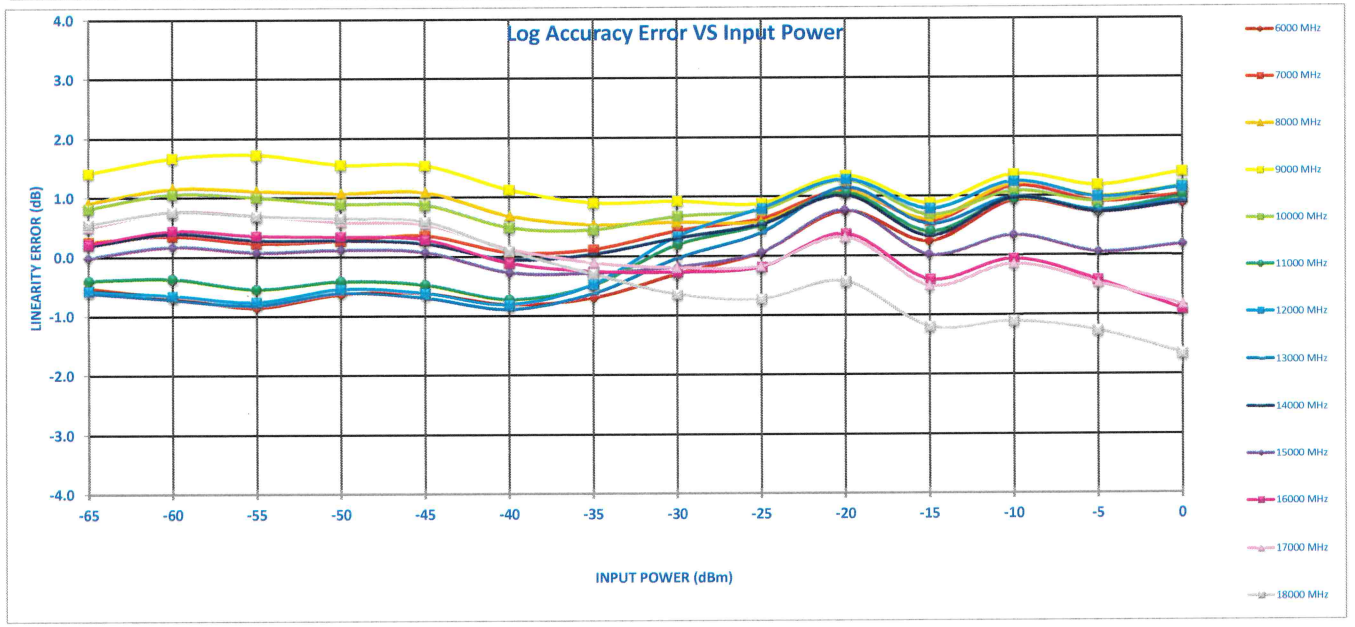
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
6000 MHz	INTERCEPT (mV)	4873.2	229	567	905	1271	1622	1958	2316	2694	3069	3468	3782	4180	4516	4877	Measured Value (mV)
	SLOPE (mV/dB)	72.025	37	15	-7	-1	-10	-34	-36	-18	-4	35	-11	27	3	4	Error (mV)
			0.52	0.21	-0.10	-0.01	-0.14	-0.48	-0.50	-0.26	-0.05	0.49	-0.15	0.38	0.04	0.05	LINEARITY ERROR (dB)
			-0.51	-0.69	-0.86	-0.63	-0.61	-0.81	-0.70	-0.30	0.06	0.76	0.24	0.93	0.73	0.89	ACCURACY ERROR (dB)
7000 MHz	INTERCEPT (mV)	4885.1	283	640	981	1334	1690	2020	2373	2745	3109	3492	3806	4197	4529	4887	Measured Value (mV)
	SLOPE (mV/dB)	71.001	13	15	1	-1	0	-25	-27	-10	-1	27	-14	22	-1	2	Error (mV)
			0.18	0.21	0.01	-0.01	0.00	-0.35	-0.38	-0.14	-0.02	0.38	-0.20	0.31	-0.02	0.03	LINEARITY ERROR (dB)
			0.26	0.36	0.23	0.27	0.36	0.07	0.11	0.43	0.63	1.10	0.59	1.17	0.91	1.03	ACCURACY ERROR (dB)
8000 MHz	INTERCEPT (mV)	4877.8	329	696	1043	1390	1741	2063	2402	2755	3106	3491	3808	4200	4535	4896	Measured Value (mV)
	SLOPE (mV/dB)	69.965	-1	16	13	10	12	-16	-27	-24	-23	13	-20	22	7	18	Error (mV)
			-0.02	0.23	0.19	0.15	0.17	-0.23	-0.39	-0.34	-0.32	0.18	-0.29	0.31	0.10	0.26	LINEARITY ERROR (dB)
			0.91	1.16	1.11	1.07	1.09	0.69	0.53	0.57	0.59	1.09	0.61	1.21	1.00	1.16	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4890	364	732	1086	1424	1773	2094	2428	2780	3127	3510	3827	4211	4548	4914	Measured Value (mV)
	SLOPE (mV/dB)	69.542	-6	15	21	11	12	-14	-28	-24	-24	11	-20	16	6	24	Error (mV)
			-0.08	0.21	0.30	0.16	0.18	-0.21	-0.40	-0.34	-0.35	0.16	-0.29	0.24	0.08	0.35	LINEARITY ERROR (dB)
			1.41	1.67	1.73	1.56	1.54	1.13	0.90	0.93	0.89	1.36	0.89	1.37	1.19	1.41	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4881.2	322	689	1035	1377	1726	2049	2396	2762	3119	3504	3813	4191	4529	4897	Measured Value (mV)
	SLOPE (mV/dB)	70.17	2	18	13	4	2	-25	-29	-14	-8	26	-16	12	-1	16	Error (mV)
			0.03	0.26	0.19	0.06	0.04	-0.36	-0.42	-0.20	-0.11	0.37	-0.22	0.16	-0.02	0.23	LINEARITY ERROR (dB)
			0.81	1.06	1.00	0.89	0.87	0.49	0.44	0.67	0.77	1.27	0.69	1.09	0.91	1.17	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4884.1	237	589	927	1286	1632	1964	2331	2728	3101	3489	3793	4182	4518	4885	Measured Value (mV)
	SLOPE (mV/dB)	71.903	27	19	-2	-3	-16	-44	-37	1	14	43	-13	17	-7	1	Error (mV)
			0.37	0.27	-0.03	-0.04	-0.23	-0.61	-0.51	0.01	0.20	0.60	-0.18	0.23	-0.09	0.01	LINEARITY ERROR (dB)
			-0.40	-0.37	-0.54	-0.41	-0.47	-0.73	-0.49	0.19	0.51	1.06	0.40	0.96	0.76	1.00	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4908.6	225	569	911	1277	1622	1958	2332	2738	3121	3505	3820	4202	4534	4895	Measured Value (mV)
	SLOPE (mV/dB)	72.552	32	14	-7	-4	-22	-49	-37	6	26	47	0	19	-12	-14	Error (mV)
			0.45	0.19	-0.10	-0.05	-0.30	-0.67	-0.51	0.08	0.36	0.65	0.00	0.26	-0.16	-0.19	LINEARITY ERROR (dB)
			-0.57	-0.66	-0.77	-0.54	-0.61	-0.81	-0.47	0.33	0.80	1.29	0.79	1.24	0.99	1.14	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4887.7	222	564	907	1272	1616	1952	2321	2712	3092	3495	3802	4184	4518	4880	Measured Value (mV)
	SLOPE (mV/dB)	72.289	33	14	-5	-1	-19	-44	-37	-7	11	53	-1	19	-8	-8	Error (mV)
			0.46	0.19	-0.07	-0.02	-0.26	-0.61	-0.51	-0.10	0.16	0.73	-0.02	0.26	-0.11	-0.11	LINEARITY ERROR (dB)
			-0.61	-0.73	-0.83	-0.61	-0.70	-0.90	-0.63	-0.04	0.39	1.14	0.53	0.99	0.76	0.93	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4870.9	278	642	984	1334	1680	2011	2367	2736	3102	3486	3788	4183	4516	4877	Measured Value (mV)
	SLOPE (mV/dB)	70.788	8	18	6	2	-5	-28	-26	-11	1	31	-21	20	-1	6	Error (mV)
			0.12	0.26	0.09	0.04	-0.08	-0.40	-0.37	-0.16	0.01	0.44	-0.30	0.28	-0.01	0.09	LINEARITY ERROR (dB)
			0.19	0.39	0.27	0.27	0.21	-0.06	0.03	0.30	0.53	1.01	0.33	0.97	0.73	0.89	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4828.2	264	627	970	1323	1670	1996	2345	2702	3069	3469	3766	4139	4469	4828	Measured Value (mV)
	SLOPE (mV/dB)	70.236	1	13	5	7	2	-23	-25	-19	-3	46	-9	13	-8	0	Error (mV)
			0.02	0.18	0.07	0.09	0.03	-0.32	-0.35	-0.27	-0.05	0.65	-0.12	0.19	-0.11	0.00	LINEARITY ERROR (dB)
			-0.01	0.17	0.07	0.11	0.07	-0.27	-0.29	-0.19	0.06	0.77	0.01	0.34	0.06	0.19	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4779.2	280	646	990	1339	1685	2007	2347	2696	3052	3441	3737	4111	4436	4751	Measured Value (mV)
	SLOPE (mV/dB)	68.99	-15	6	5	9	10	-13	-18	-13	-2	42	-7	22	2	-28	Error (mV)
			-0.21	0.09	0.08	0.14	0.15	-0.18	-0.25	-0.20	-0.04	0.60	-0.11	0.31	0.03	-0.41	LINEARITY ERROR (dB)
			0.21	0.44	0.36	0.34	0.29	-0.11	-0.26	-0.27	-0.19	0.37	-0.40	-0.06	-0.41	-0.91	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4772.5	300	669	1014	1356	1703	2024	2357	2701	3053	3437	3730	4105	4433	4757	Measured Value (mV)
	SLOPE (mV/dB)	68.52	-19	8	10	9	14	-8	-17	-16	-7	35	-15	18	3	-16	Error (mV)
			-0.27	0.11	0.15	0.14	0.20	-0.11	-0.25	-0.23	-0.10	0.51	-0.22	0.26	0.04	-0.23	LINEARITY ERROR (dB)
			0.50	0.77	0.70	0.59	0.54	0.13	-0.11	-0.20	-0.17	0.31	-0.50	-0.14	-0.46	-0.83	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4706.9	303	668	1013	1360	1706	2021	2344	2670	3014	3385	3681	4037	4376	4699	Measured Value (mV)
	SLOPE (mV/dB)	67.296	-30	-1	7	18	27	6	-8	-18	-11	24	-16	3	6	-8	Error (mV)
			-0.44	-0.02	0.11	0.27	0.41	0.09	-0.11	-0.27	-0.16	0.36	-0.24	0.05	0.08	-0.12	LINEARITY ERROR (dB)
			0.54	0.76	0.69	0.64	0.59	0.09	-0.30	-0.64	-0.73	-0.43	-1.20	-1.11	-1.27	-1.66	ACCURACY ERROR (dB)
	Flatness	+/- dB	1.01	1.20	1.29	1.09	1.12	1.01	0.80	0.61	0.54	0.49	0.64	0.71	0.80	1.16	

PL409128
25°C RF





LOG TRANSFER WITH FREQUENCY

TESTED BY: Jim Hopson
MODEL: EWDM-6G18G-65-70MV-1
SERIAL NO: PL40928 BIT
DATE: 07/18/24

Test Temp: 25C
Video Offset: 0.0089999999999

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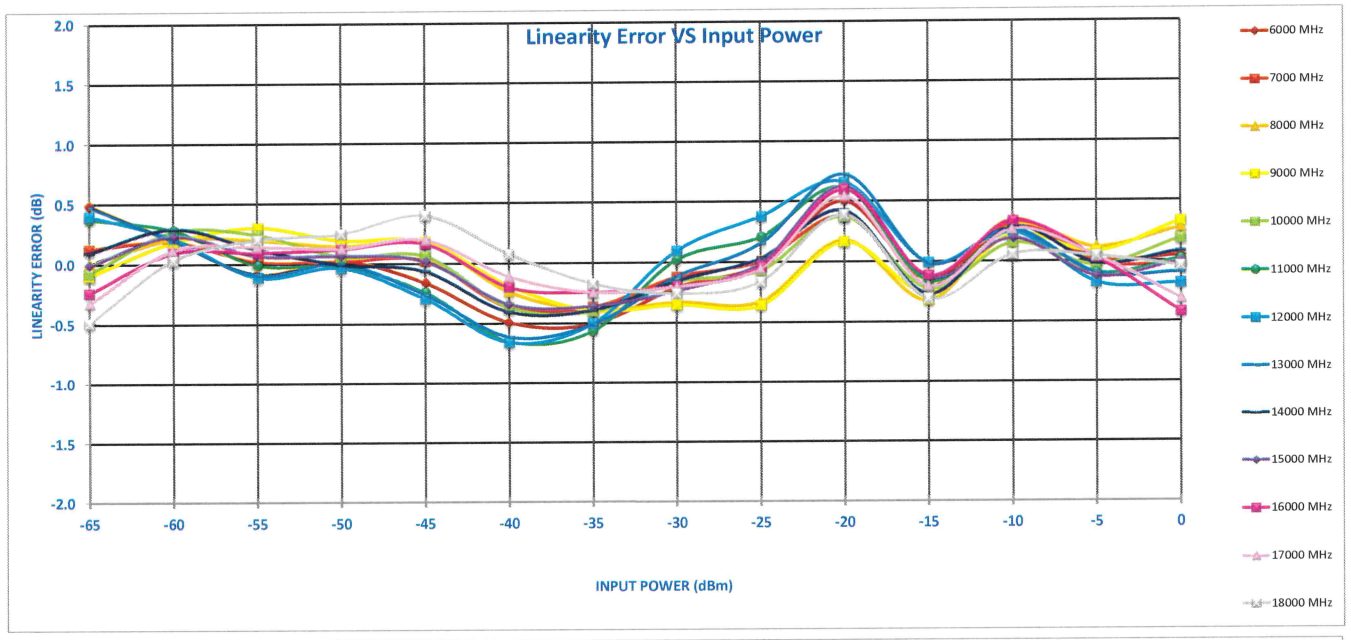
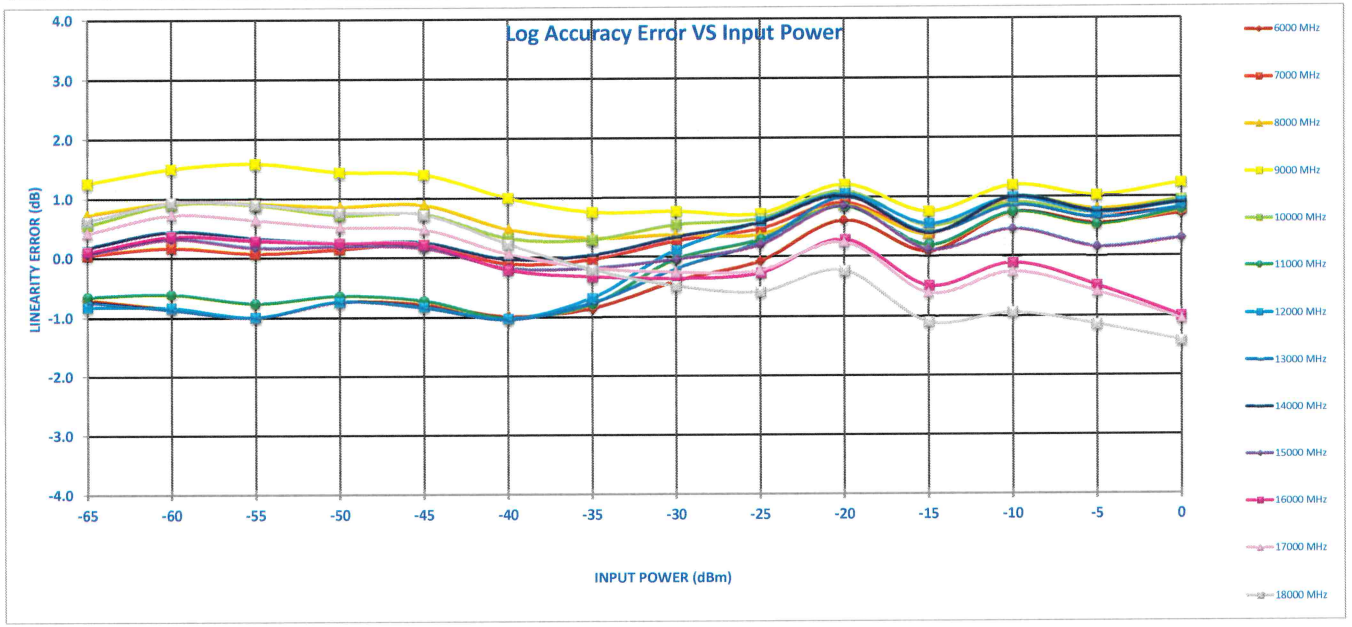
Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
6000 MHz	INTERCEPT (mV)	4872.5	226	565	905	1273	1620	1956	2315	2697	3070	3468	3781	4177	4514	4876	Measured Value (mV)
	SLOPE (mV/dB)	72.025	35	14	-6	2	-11	-35	-37	-15	-2	36	-11	25	2	4	Error (mV)
			0.49	0.20	-0.08	0.02	-0.16	-0.49	-0.51	-0.20	-0.03	0.50	-0.15	0.34	0.02	0.05	LINEARITY ERROR (dB)
			-0.70	-0.86	-1.00	-0.74	-0.79	-0.99	-0.86	-0.40	-0.07	0.61	0.09	0.74	0.56	0.73	ACCURACY ERROR (dB)
7000 MHz	INTERCEPT (mV)	4881.4	278	637	980	1335	1690	2017	2372	2744	3108	3489	3802	4194	4526	4880	Measured Value (mV)
	SLOPE (mV/dB)	70.963	9	13	2	2	2	-26	-26	-9	1	27	-15	22	-1	-1	Error (mV)
			0.13	0.19	0.02	0.02	0.03	-0.37	-0.36	-0.12	0.01	0.38	-0.21	0.31	-0.01	-0.02	LINEARITY ERROR (dB)
			0.04	0.17	0.07	0.14	0.21	-0.11	-0.04	0.27	0.47	0.91	0.39	0.99	0.73	0.79	ACCURACY ERROR (dB)
8000 MHz	INTERCEPT (mV)	4872.6	326	690	1039	1385	1737	2058	2397	2751	3101	3486	3801	4194	4531	4892	Measured Value (mV)
	SLOPE (mV/dB)	69.953	0	15	14	10	12	-16	-27	-23	-23	12	-22	21	8	19	Error (mV)
			0.00	0.21	0.20	0.14	0.18	-0.24	-0.39	-0.33	-0.33	0.18	-0.32	0.30	0.12	0.28	LINEARITY ERROR (dB)
			0.73	0.93	0.91	0.86	0.89	0.47	0.31	0.37	0.37	0.87	0.37	0.99	0.80	0.96	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4889.1	363	730	1086	1426	1773	2095	2428	2779	3126	3510	3828	4209	4547	4912	Measured Value (mV)
	SLOPE (mV/dB)	69.527	-7	13	21	13	13	-13	-28	-24	-25	11	-18	15	6	23	Error (mV)
			-0.10	0.18	0.30	0.19	0.18	-0.19	-0.40	-0.35	-0.36	0.17	-0.26	0.22	0.08	0.33	LINEARITY ERROR (dB)
			1.26	1.50	1.59	1.44	1.40	1.00	0.76	0.77	0.73	1.21	0.76	1.20	1.03	1.24	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4879.1	313	688	1037	1375	1726	2047	2395	2763	3120	3502	3811	4188	4526	4892	Measured Value (mV)
	SLOPE (mV/dB)	70.164	-5	19	17	4	4	-26	-28	-11	-5	26	-16	11	-2	13	Error (mV)
			-0.08	0.27	0.24	0.06	0.06	-0.36	-0.40	-0.16	-0.07	0.37	-0.22	0.15	-0.03	0.18	LINEARITY ERROR (dB)
			0.54	0.90	0.89	0.71	0.73	0.31	0.29	0.54	0.64	1.10	0.51	0.90	0.73	0.96	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4878.8	229	582	921	1280	1624	1954	2320	2722	3095	3484	3788	4177	4512	4880	Measured Value (mV)
	SLOPE (mV/dB)	71.946	27	20	-1	-2	-17	-47	-41	2	16	44	-12	18	-7	1	Error (mV)
			0.37	0.28	-0.01	-0.02	-0.24	-0.65	-0.57	0.02	0.21	0.61	-0.16	0.25	-0.10	0.02	LINEARITY ERROR (dB)
			-0.66	-0.61	-0.77	-0.64	-0.73	-1.01	-0.79	-0.04	0.29	0.84	0.19	0.74	0.53	0.79	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4901.5	217	566	905	1273	1617	1953	2327	2733	3116	3499	3813	4194	4526	4888	Measured Value (mV)
	SLOPE (mV/dB)	72.514	29	15	-8	-3	-21	-48	-37	7	27	48	-1	18	-13	-13	Error (mV)
			0.40	0.21	-0.11	-0.04	-0.29	-0.66	-0.50	0.10	0.38	0.66	-0.01	0.24	-0.18	-0.19	LINEARITY ERROR (dB)
			-0.83	-0.84	-1.00	-0.74	-0.83	-1.03	-0.69	0.11	0.59	1.06	0.54	0.99	0.73	0.90	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4889	223	564	905	1273	1616	1952	2321	2711	3092	3495	3803	4185	4520	4882	Measured Value (mV)
	SLOPE (mV/dB)	72.316	35	14	-7	0	-19	-44	-37	-9	11	52	-1	19	-7	-7	Error (mV)
			0.48	0.19	-0.09	0.00	-0.26	-0.61	-0.51	-0.12	0.15	0.72	-0.02	0.27	-0.10	-0.10	LINEARITY ERROR (dB)
			-0.74	-0.87	-1.00	-0.74	-0.84	-1.04	-0.77	-0.20	0.24	1.00	0.40	0.86	0.64	0.81	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4883.4	287	655	997	1342	1692	2022	2377	2748	3115	3497	3802	4195	4528	4889	Measured Value (mV)
	SLOPE (mV/dB)	70.816	7	21	8	-1	-5	-29	-28	-11	2	30	-19	20	-1	6	Error (mV)
			0.09	0.29	0.12	-0.01	-0.07	-0.41	-0.39	-0.15	0.03	0.42	-0.27	0.28	-0.02	0.08	LINEARITY ERROR (dB)
			0.17	0.43	0.31	0.24	0.24	-0.04	0.03	0.33	0.57	1.03	0.39	1.00	0.76	0.91	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4846.1	279	647	987	1338	1686	2012	2362	2722	3089	3485	3783	4157	4486	4846	Measured Value (mV)
	SLOPE (mV/dB)	70.255	0	16	5	5	1	-24	-25	-16	-1	44	-9	13	-9	0	Error (mV)
			-0.01	0.23	0.07	0.07	0.02	-0.34	-0.36	-0.23	-0.01	0.63	-0.13	0.19	-0.13	0.00	LINEARITY ERROR (dB)
			0.06	0.31	0.17	0.19	0.16	-0.19	-0.19	-0.04	0.20	0.86	0.11	0.46	0.16	0.30	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4784	282	650	995	1342	1690	2010	2352	2700	3056	3445	3741	4117	4441	4755	Measured Value (mV)
	SLOPE (mV/dB)	69.012	-16	7	7	9	12	-14	-17	-14	-3	41	-8	23	2	-29	Error (mV)
			-0.24	0.10	0.10	0.12	0.17	-0.20	-0.24	-0.20	-0.04	0.60	-0.11	0.33	0.03	-0.42	LINEARITY ERROR (dB)
			0.10	0.36	0.29	0.24	0.21	-0.21	-0.33	-0.36	-0.27	0.29	-0.49	-0.11	-0.49	-1.00	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4773.2	304	676	1020	1361	1708	2029	2362	2707	3059	3442	3733	4107	4434	4752	Measured Value (mV)
	SLOPE (mV/dB)	68.419	-22	8	10	9	14	-7	-17	-14	-4	37	-14	18	3	-21	Error (mV)
			-0.32	0.12	0.14	0.13	0.20	-0.11	-0.24	-0.20	-0.05	0.54	-0.20	0.26	0.04	-0.31	LINEARITY ERROR (dB)
			0.41	0.73	0.64	0.51	0.47	0.06	-0.19	-0.26	-0.23	0.24	-0.60	-0.26	-0.59	-1.04	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4728.8	318	690	1038	1378	1725	2040	2360	2691	3034	3408	3698	4059	4395	4726	Measured Value (mV)
	SLOPE (mV/dB)	67.348	-33	2	13	17	27	5	-12	-17	-11	26	-21	4	3	-3	Error (mV)
			-0.49	0.03	0.20	0.25	0.40	0.08	-0.17	-0.26	-0.16	0.39	-0.31	0.05	0.04	-0.04	LINEARITY ERROR (dB)
			0.61	0.93	0.90	0.76	0.71	0.21	-0.21	-0.49	-0.59	-0.24	-1.10	-0.94	-1.14	-1.41	ACCURACY ERROR (dB)
	Flatness	+/- dB	1.04	1.19	1.29	1.09	1.12	1.02	0.81	0.59	0.50	0.46	0.62	0.66	0.76	1.12	

PL40928 BIT

25°C





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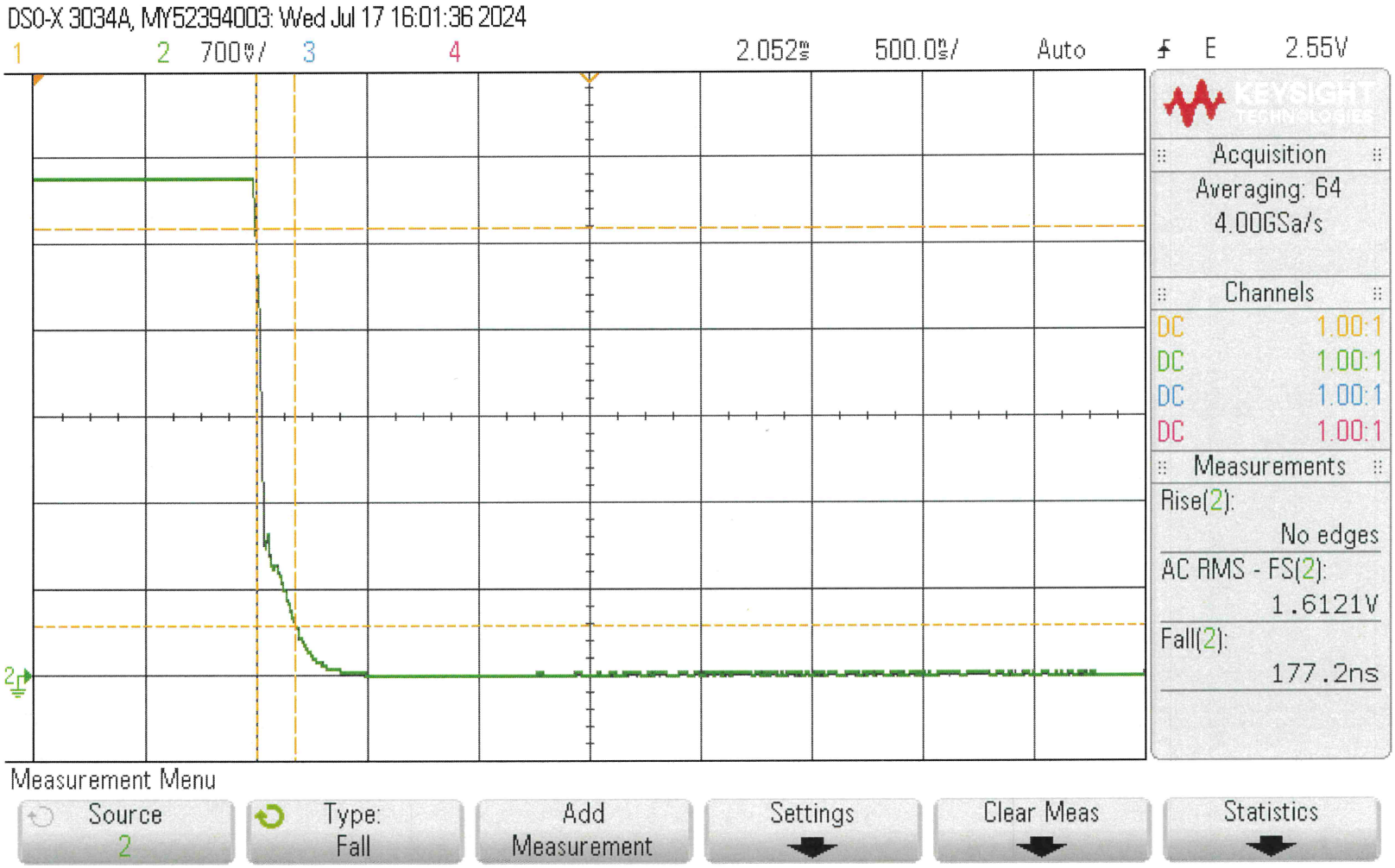
Recovery



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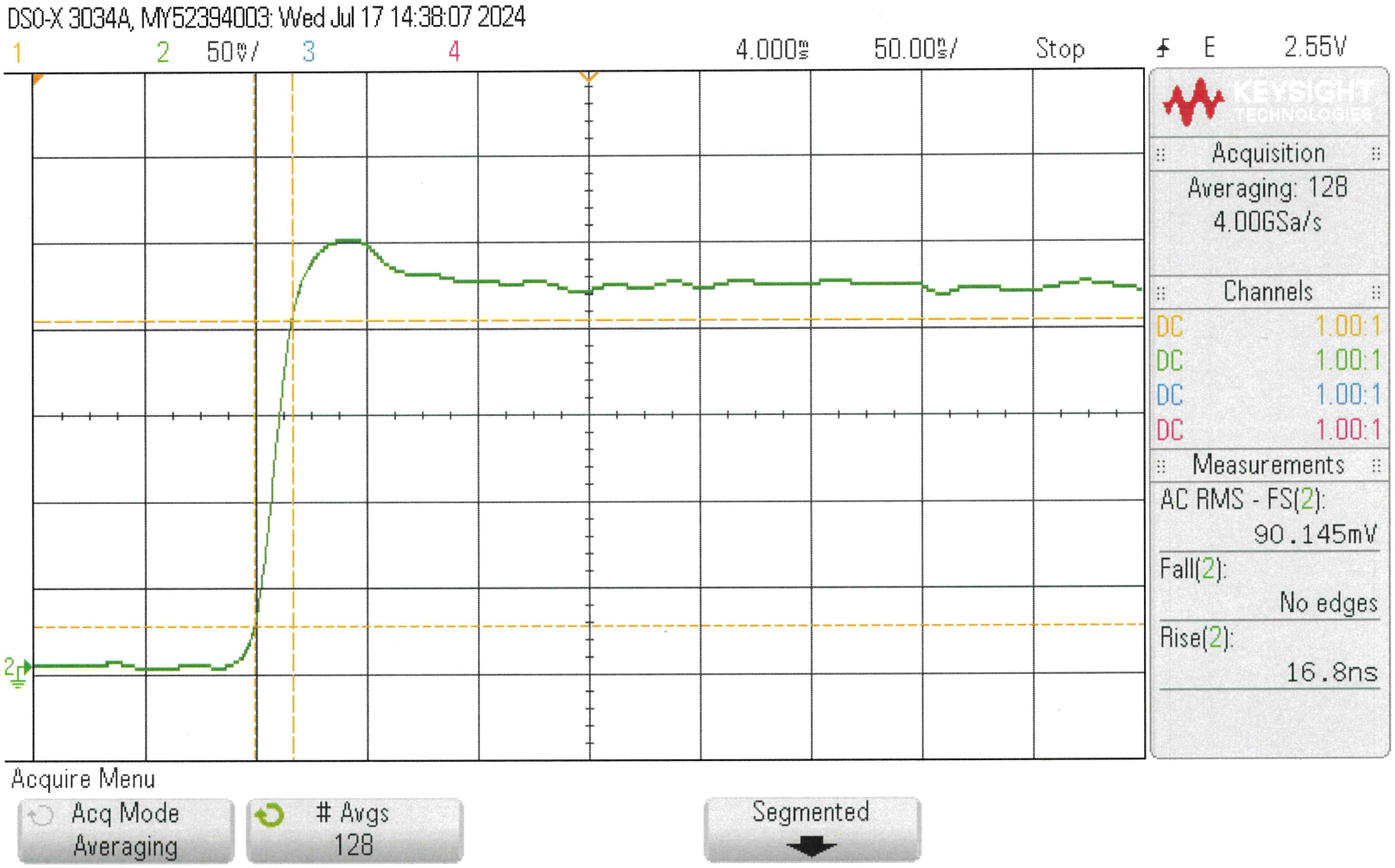
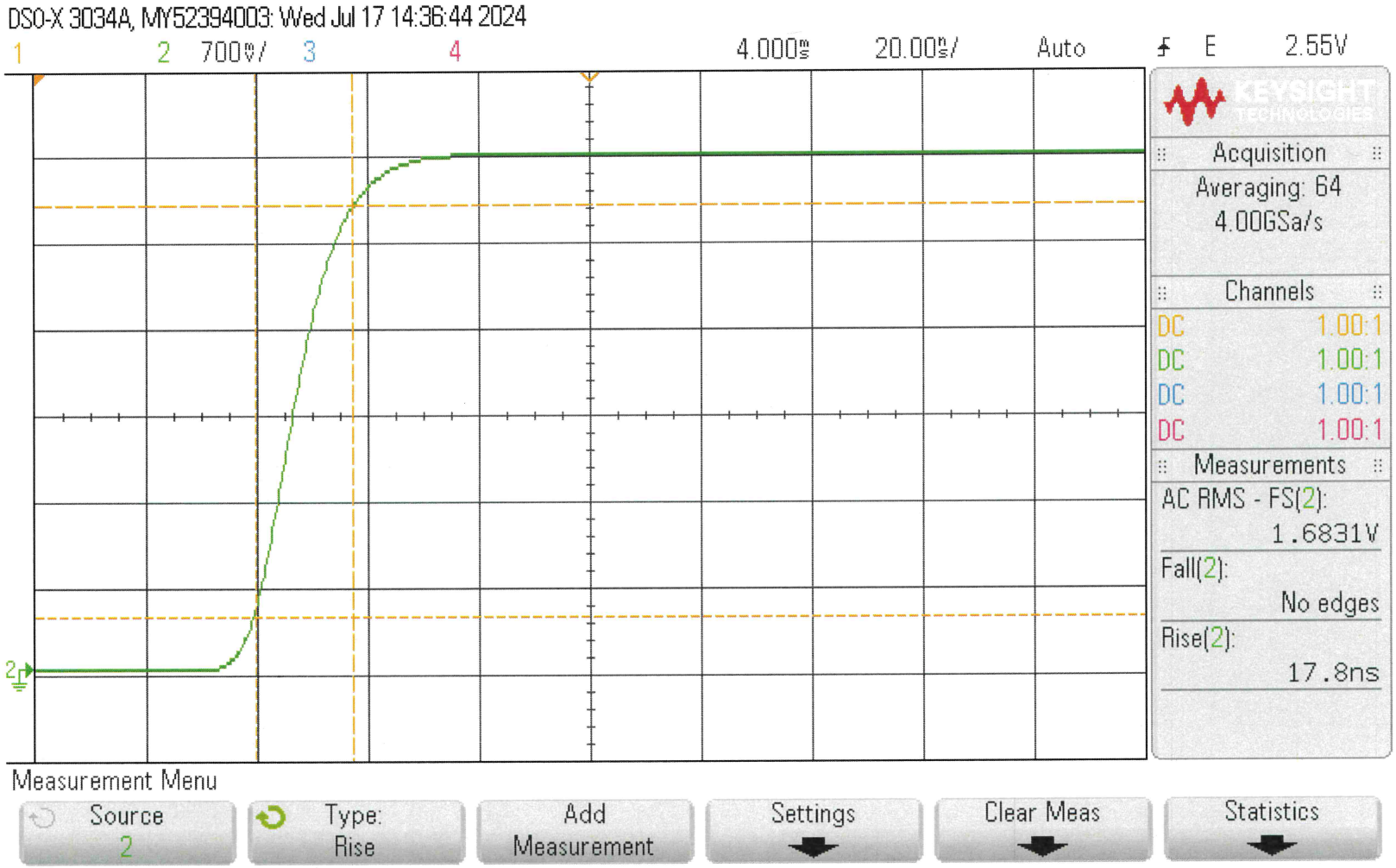
Rise Time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settle