



Tested By: Jim Hopson

SO No:

Temperature: 0°C TO +85°C

Model No: EWDM-6G18G-65-70MV-1

Date 7/18/2024

Serial No: PL40936/2335

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	1.65:1 @ 50 Ω (RF IN) 1.77:1 @ 50 Ω (BIT IN) 1.77:1 @ 50 Ω (RF OUT) 1.55:1 @ 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	34.9 dB MIN / 36.8 dB MAX	
9	RF OUT Frequency Flatness:	±2.5 dB MAX	±1 dB	
10	RF OUT 1 dB Compression Point:	+3 dBm MIN	7.1 dBm	
11	RF OUT Second Harmonic:	-9 dBc MIN	-40 dBc	
12	RF OUT Third Harmonic:	-12 dBc MIN	-60 dBc	

7311-F Grove Road Frederick, MD 21704 USA

Phone: (301)662-5019 Fax: (301)662-1731

Website: www.pmi-rf.com Email: sales@pmi-rf.com



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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	14.5 dB MIN / 12.6 dB MAX	PMI QA3
14	SW Frequency Flatness:	±1.5 dB MAX	±1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	5.9 dBm	
16	SW Saturated Power:	+9 dBm MAX	8.1 dBm	
17	SW Second Harmonic:	-9 dBc MIN	-37 dBc	
18	SW Third Harmonic:	-12 dBc MIN	-46 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	70.1 mV/dB	
22	VIDEO OUT Log Linearity:	±1.0 dB MAX @12 GHZ	+0.25 / -0.26 dB	
23	VIDEO OUT Log Accuracy:	±2.0 dB MAX	+1.38 / -1.42 dB	
24	VIDEO OUT Absolute Log Accuracy:	±2.25 dB MAX	+1.84 / -1.84 dB	
25	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-7 mV	
26	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	27.5 ns	
27	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	145.3 ns	
28	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	40 ns typ	

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Summary Data
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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	±1.05 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	1.5ms	
		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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For
EWDM-6G18G-65-70MV-1

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 @ 620 mA -15 V @ 140 mA	
40	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval: K. Hutter

Date: 7-19-24

LOG TRANSFER WITH FREQUENCY

TESTED BY: Jim Hopson
MODEL: EWDm-6G18G-65-70MV-1
SERIAL NO: PL40936 RF
DATE: 07/18/24

Test Temp: 25C
Video Offset: -0.007

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Matthews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RE.COM
ISO 9001:2000 CERTIFIED



Frequency

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
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RF Input Power (dbm)

6000 MHz	INTERCEPT (mV)	4835.1
	SLOPE (mV/dB)	70.945

249	581	909	1280	1652	1993	2354	2716	3040	3398	3764	4151	4491	4833
25	3	-24	-8	9	2	9	-21	-18	-7	-4	25	11	-2
0.36	0.04	-0.34	-0.11	0.13	-0.06	0.03	0.13	-0.30	-0.26	-0.10	0.36	0.15	-0.03
-0.59	-0.84	-1.16	-0.86	-0.54	-0.67	-0.51	-0.34	-0.71	-0.60	-0.37	0.16	0.01	-0.10

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

7000 MHz	INTERCEPT (mV)	4861.3
	SLOPE (mV/dB)	69.711

332	675	1019	1377	1747	2079	2429	2772	3085	3442	3812	4188	4524	4859
2	-4	-8	1	23	6	8	2	-24	-23	-4	24	11	-2
0.03	-0.05	-0.12	0.02	0.33	0.09	0.11	0.03	-0.48	-0.36	-0.05	0.34	0.16	-0.03
0.60	0.50	0.41	0.53	0.81	0.56	0.56	0.46	-0.07	0.03	0.31	0.69	0.49	0.27

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

8000 MHz	INTERCEPT (mV)	4859.6
	SLOPE (mV/dB)	69.263

358	699	1048	1405	1771	2099	2439	2773	3083	3444	3814	4187	4524	4876
0	-5	-2	9	28	10	4	-9	-45	-30	-7	20	11	16
0.01	-0.07	-0.03	0.12	0.41	0.14	0.05	-0.13	-0.65	-0.44	-0.10	0.29	0.15	0.24
0.97	0.84	0.83	0.93	1.16	0.84	0.70	0.47	-0.10	0.06	0.34	0.67	0.49	0.51

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

9000 MHz	INTERCEPT (mV)	4872.3
	SLOPE (mV/dB)	69.379

362	706	1056	1414	1777	2105	2448	2792	3093	3457	3821	4190	4536	4897
-1	-3	0	11	27	8	4	-9	-45	-28	-11	12	11	25
-0.01	-0.05	-0.01	0.15	0.39	0.11	0.06	-0.13	-0.65	-0.40	-0.15	0.17	0.15	0.36
1.03	0.94	0.94	1.06	1.24	0.93	0.83	0.60	0.04	0.24	0.44	0.71	0.66	0.81

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

10000 MHz	INTERCEPT (mV)	4837.4
	SLOPE (mV/dB)	69.351

326	675	1020	1373	1741	2070	2419	2782	3071	3424	3779	4152	4498	4859
-4	-1	-3	3	24	7	9	5	-33	-26	-18	8	7	22
-0.05	-0.02	-0.04	0.05	0.35	0.10	0.13	0.07	-0.47	-0.38	-0.26	0.12	0.11	0.31
0.51	0.50	0.43	0.47	0.73	0.43	0.41	0.31	-0.27	-0.23	-0.16	0.17	0.11	0.27

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

12000 MHz	INTERCEPT (mV)	4795.6
	SLOPE (mV/dB)	70.195

246	589	918	1275	1647	1984	2341	2710	3029	3377	3725	4109	4451	4799
5	5	-6	-4	-19	-4	2	-6	-12	-5	-16	15	5	3
0.19	0.07	-0.24	-0.15	0.14	-0.05	0.03	0.29	-0.17	-0.21	-0.25	0.22	0.09	0.05
-0.63	-0.73	-1.03	-0.93	-0.61	-0.80	-0.70	-0.43	-0.87	-0.90	-0.93	-0.44	-0.56	-0.59

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

12000 MHz	INTERCEPT (mV)	4797.2
	SLOPE (mV/dB)	70

252	597	929	1291	1662	1998	2357	2715	3035	3385	3735	4113	4450	4792
5	0	-18	-8	15	1	10	-18	-12	-12	-12	16	3	-5
0.07	0.00	-0.26	-0.09	0.21	0.01	0.14	0.25	-0.17	-0.17	-0.17	0.23	0.04	-0.07
-0.54	-0.61	-0.87	-0.70	-0.40	-0.60	-0.47	-0.36	-0.79	-0.79	-0.79	-0.39	-0.57	-0.69

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

13000 MHz	INTERCEPT (mV)	4824.1
	SLOPE (mV/dB)	70.271

268	612	944	1305	1676	2011	2369	2720	3045	3410	3760	4136	4479	4829
12	4	-15	-6	14	-2	4	4	-22	-9	-10	15	6	5
0.16	0.06	-0.22	-0.08	0.20	-0.03	0.06	0.06	-0.32	-0.12	-0.14	0.21	0.09	0.07
-0.31	-0.40	-0.66	-0.50	-0.20	-0.41	-0.30	-0.29	-0.64	-0.43	-0.43	-0.06	-0.16	-0.16

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

14000 MHz	INTERCEPT (mV)	4864.9
	SLOPE (mV/dB)	70.189

313	659	1000	1349	1719	2056	2412	2766	3081	3435	3791	4176	4526	4887
10	5	-4	-6	13	1	4	7	-29	-26	-21	13	12	22
0.15	0.08	-0.06	-0.09	0.18	0.01	0.05	0.10	-0.42	-0.37	-0.30	0.19	0.17	0.32
0.33	0.27	0.14	0.13	0.41	0.26	0.31	0.37	-0.13	-0.07	0.01	0.51	0.51	0.67

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

15000 MHz	INTERCEPT (mV)	4857.8
	SLOPE (mV/dB)	70.532

281	630	966	1323	1693	2031	2392	2754	3086	3445	3794	4158	4500	4864
8	4	-13	-8	9	-6	3	12	-8	-2	-6	6	-5	6
0.11	0.06	-0.18	-0.12	0.13	-0.08	0.04	0.17	-0.12	-0.03	-0.08	0.08	0.07	0.09
-0.13	-0.14	-0.34	-0.24	0.04	-0.13	0.03	0.20	-0.06	0.07	0.06	0.26	0.14	0.34

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

16000 MHz	INTERCEPT (mV)	4843.8
	SLOPE (mV/dB)	70.838

292	601	929	1288	1657	1999	2364	2744	3073	3428	3776	4152	4492	4827
13	7	-19	-14	1	-11	0	25	0	1	-5	17	2	-17
0.18	0.11	-0.26	-0.20	0.01	-0.16	-0.01	0.36	0.00	0.01	-0.07	0.23	0.03	-0.24
-0.54	-0.56	-0.87	-0.74	-0.47	-0.59	-0.37	0.06	-0.24	-0.17	-0.20	0.17	0.03	-0.19

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

17000 MHz	INTERCEPT (mV)	4826.9
	SLOPE (mV/dB)	70.62

250	596	925	1279	1650	1992	2356	2741	3063	3409	3757	4137	4475	4815
13	6	-18	-17	1	-10	1	33	-4	-10	-1	16	1	-12
0.19	0.09	-0.25	-0.24	0.01	-0.14	0.01	0.46	0.02	-0.08	-0.15	0.23	0.02	-0.17
-0.57	-0.63	-0.93	-0.87	-0.57	-0.69	-0.49	0.01	-0.39	-0.44	-0.47	-0.04	-0.21	-0.36

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

18000 MHz	INTERCEPT (mV)	4766.2
	SLOPE (mV/dB)	69.815

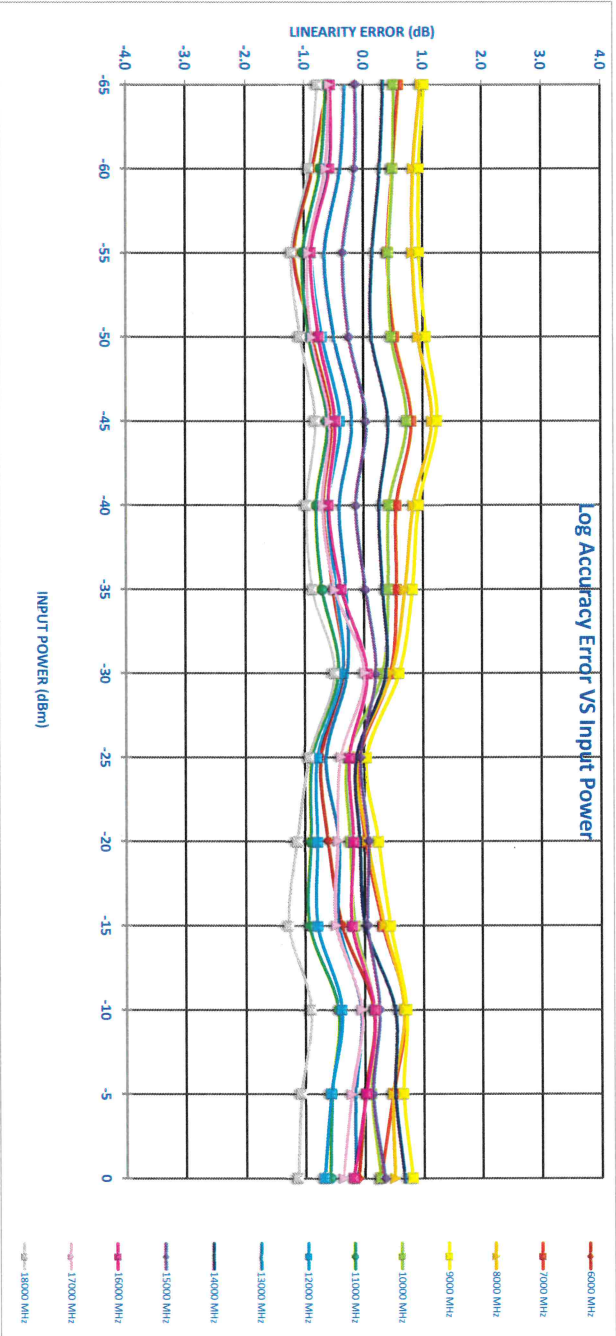
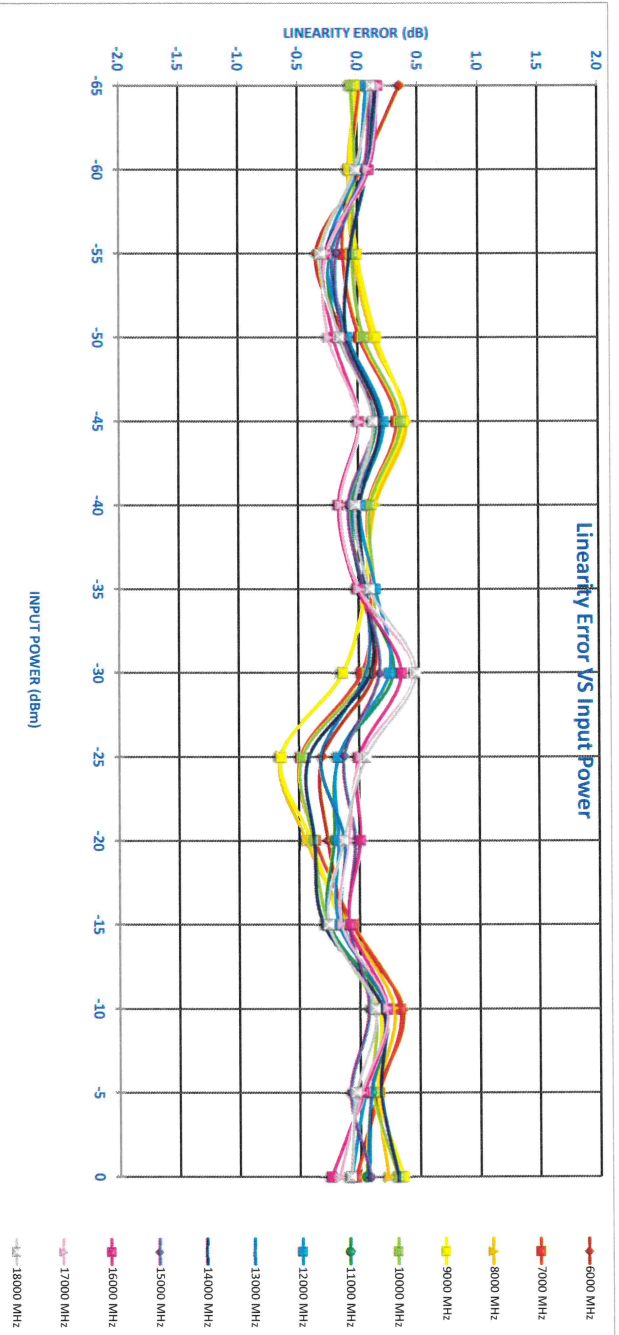
236	576	905	1265	1633	1972	2329	2705	3025	3381	3701	4077	4415	4761
8	-1	-21	-10	8	-2	6	33	4	-9	-18	9	-2	-5
0.11	-0.02	-0.31	-0.15	0.12	-0.02	0.09	0.48	0.06	-0.13	-0.26	0.13	-0.03	-0.07
-0.77	-0.91	-1.21	-1.07	-0.81	-0.97	-0.87	-0.50	-0.93	-1.13	-1.27	-0.90	-1.07	-1.13

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

Flatness		+/- dB
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0.83	0.89	1.05	0.99	0.93	0.86	0.76	0.51	0.46	0.57	0.69	0.58	0.61	0.75
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DL40936 RF



LOG TRANSFER WITH FREQUENCY

TESTED BY: Jim Hopson
MODEL: EMDM-6G18G-6S-70MV-1SERIAL NO: PL40936 BIT
DATE: 07/18/24Test Temp: 25C
Video Offset: -0.01PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Matthews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
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6000 MHz	INTERCEPT (mV)	4802.7
	SLOPE (mV/dB)	71.039

209	545	873	1240	1613	1954	2315	2681	3014	3370	3730	4122	4457	4792
24	5	-23	-11	7	-7	-1	9	-13	-12	-7	30	10	-11
0.34	0.07	-0.32	-0.15	0.10	-0.10	-0.02	0.13	-0.18	-0.17	-0.10	0.42	0.13	-0.15
-0.88	-1.05	-1.34	-1.06	-0.70	-0.80	-0.62	-0.36	-0.57	-0.46	-0.29	0.34	0.16	-0.03

7000 MHz	INTERCEPT (mV)	4839.4
	SLOPE (mV/dB)	69.8

300	649	992	1351	1720	2051	2402	2750	3068	3424	3789	4168	4499	4829
-7	-2	-8	2	22	4	6	5	-26	-19	-3	27	9	-10
-0.03	-0.03	-0.12	0.02	0.31	0.05	0.08	0.07	-0.38	-0.28	-0.05	0.38	0.12	-0.15
0.43	0.45	0.37	0.53	0.83	0.59	0.63	0.63	0.20	0.32	0.56	1.01	0.76	0.50

8000 MHz	INTERCEPT (mV)	4837.1
	SLOPE (mV/dB)	69.264

330	677	1024	1382	1749	2074	2418	2753	3068	3428	3794	4168	4500	4840
-5	-4	-4	8	29	7	5	-6	-38	-24	-4	23	9	-3
-0.07	-0.06	-0.05	0.12	0.41	0.11	0.07	-0.09	-0.54	-0.34	-0.06	0.34	0.13	0.04
0.86	0.85	0.83	0.98	1.25	0.92	0.86	0.68	0.20	0.37	0.63	1.01	0.78	0.66

9000 MHz	INTERCEPT (mV)	4850.9
	SLOPE (mV/dB)	69.32

341	688	1039	1393	1758	2084	2427	2766	3080	3442	3802	4175	4516	4861
-4	-4	1	8	26	6	2	-5	-38	-22	-9	17	12	10
-0.06	-0.05	0.01	0.12	0.38	0.09	0.03	-0.08	-0.55	-0.32	-0.13	0.25	0.17	0.15
1.02	1.01	1.05	1.14	1.38	1.06	0.99	0.86	0.37	0.57	0.75	1.11	1.01	0.96

10000 MHz	INTERCEPT (mV)	4810.5
	SLOPE (mV/dB)	69.291

302	653	992	1347	1716	2044	2394	2740	3053	3404	3755	4129	4470	4821
-5	0	-8	1	24	5	9	8	-25	-21	-16	11	6	10
-0.07	0.00	-0.11	0.01	0.34	0.07	0.12	0.12	-0.36	-0.20	-0.23	0.16	0.09	0.15
0.46	0.50	0.37	0.47	0.78	0.49	0.52	0.49	-0.01	0.03	0.07	0.45	0.34	0.39

11000 MHz	INTERCEPT (mV)	4758.5
	SLOPE (mV/dB)	70.074

214	557	885	1245	1614	1953	2309	2677	3003	3347	3692	4078	4414	4748
-10	-8	-18	-8	19	5	9	16	-24	-16	-9	15	6	14
-0.15	0.04	-0.28	-0.14	0.13	-0.04	0.04	0.30	-0.05	-0.14	-0.22	0.29	0.08	-0.15
-0.80	-0.88	-1.16	-0.99	-0.69	-0.82	-0.70	-0.42	-0.73	-0.79	-0.83	-0.29	-0.46	-0.66

12000 MHz	INTERCEPT (mV)	4770.8
	SLOPE (mV/dB)	69.986

228	570	901	1265	1635	1971	2328	2689	3015	3363	3711	4092	4424	4755
6	2	-29	-6	14	0	7	18	-8	-8	-10	29	3	-10
0.09	-0.02	-0.29	-0.09	0.19	0.00	0.10	0.25	-0.09	-0.11	-0.14	0.30	0.05	-0.23
-0.60	-0.69	-0.93	-0.70	-0.39	-0.56	-0.43	-0.24	-0.56	-0.56	-0.56	-0.09	-0.32	-0.56

13000 MHz	INTERCEPT (mV)	4804.7
	SLOPE (mV/dB)	70.257

249	595	923	1287	1654	1992	2348	2704	3032	3393	3740	4118	4456	4808
11	6	-18	-5	11	-2	2	7	-16	-7	-11	16	3	3
0.16	0.08	-0.25	-0.07	0.15	-0.03	0.03	0.10	-0.23	-0.09	-0.15	0.23	0.04	0.05
-0.30	-0.33	-0.62	-0.39	-0.11	-0.26	-0.14	-0.03	-0.32	-0.13	-0.14	0.29	0.14	0.20

14000 MHz	INTERCEPT (mV)	4833.5
	SLOPE (mV/dB)	70.042

285	635	971	1326	1697	2033	2390	2742	3061	3413	3765	4149	4492	4841
4	4	-10	-5	15	1	8	10	-21	-20	-18	16	9	7
0.06	0.06	-0.15	-0.08	0.22	0.02	0.11	0.14	-0.31	-0.28	-0.26	0.23	0.12	0.11
0.22	0.24	0.07	0.17	0.50	0.33	0.46	0.52	0.10	0.16	0.22	0.73	0.66	0.68

15000 MHz	INTERCEPT (mV)	4834.4
	SLOPE (mV/dB)	70.499

258	610	942	1301	1670	2008	2368	2732	3066	3427	3772	4145	4481	4824
6	6	-15	-8	8	-6	1	13	-6	3	-5	16	-1	-10
0.09	0.08	-0.21	-0.12	0.11	-0.09	0.02	0.18	-0.08	0.04	-0.07	0.22	-0.01	-0.15
-0.17	-0.11	-0.34	-0.19	0.11	-0.03	0.14	0.37	0.17	0.36	0.32	0.68	0.50	0.43

16000 MHz	INTERCEPT (mV)	4800.7
	SLOPE (mV/dB)	70.629

226	566	893	1256	1623	1982	2326	2708	3043	3396	3739	4116	4447	4773
16	3	-23	-13	1	-14	-3	26	8	-2	22	-1	-28	-1
0.23	0.04	-0.33	-0.19	0.01	-0.19	-0.04	0.37	0.11	0.11	-0.03	0.31	-0.01	-0.39
-0.63	-0.75	-1.05	-0.83	-0.56	-0.69	-0.46	0.03	-0.16	-0.09	-0.16	0.26	0.01	0.30

17000 MHz	INTERCEPT (mV)	4774.9
	SLOPE (mV/dB)	70.314

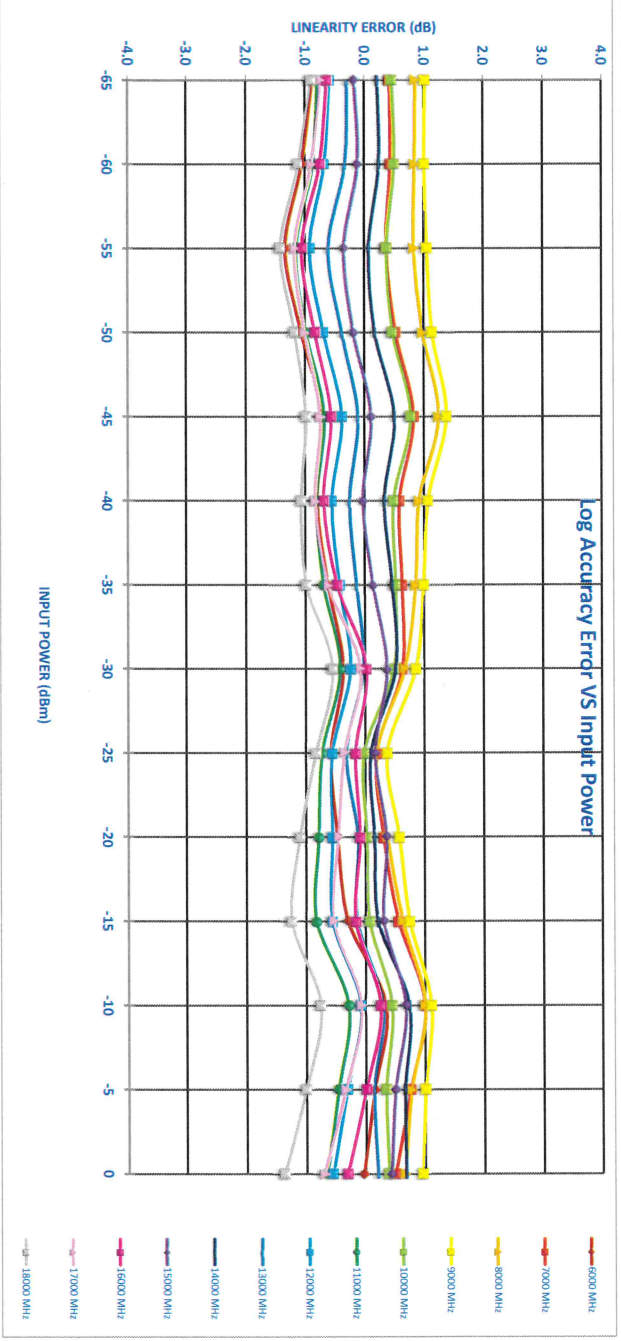
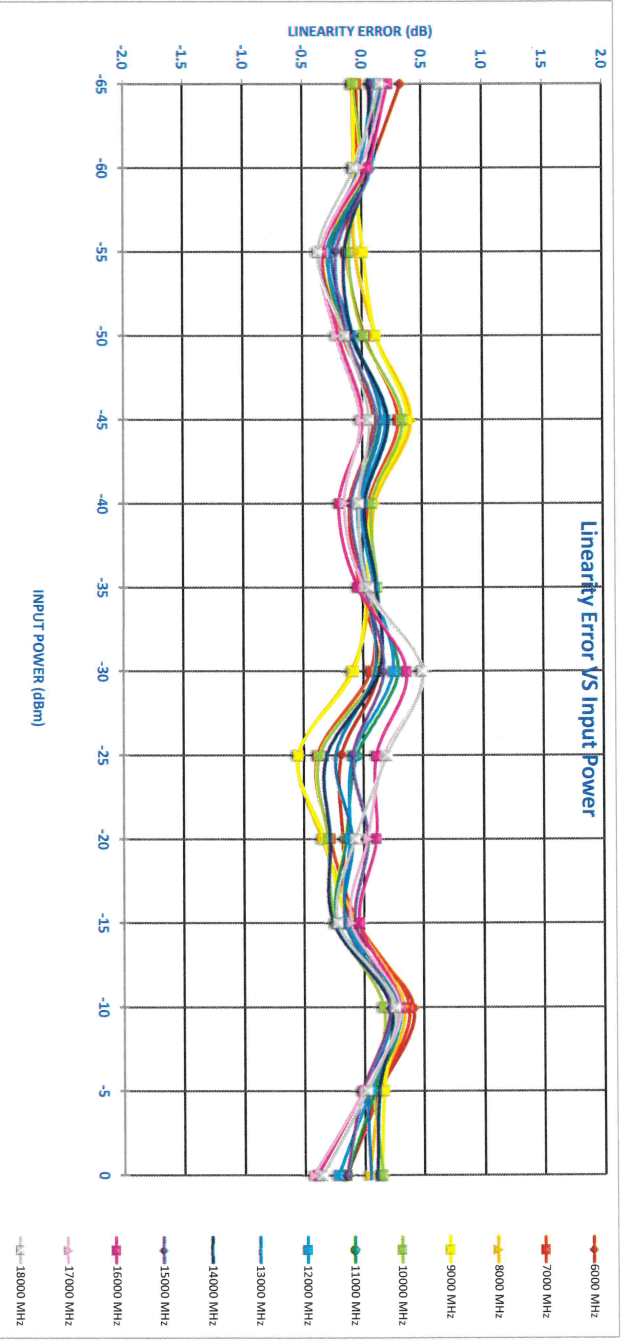
219	556	884	1244	1610	1952	2315	2701	3030	3371	3713	4093	4423	4745
14	0	-24	-15	-1	-10	1	36	13	2	-7	21	0	-30
0.21	0.00	-0.34	-0.22	-0.01	-0.15	0.02	0.50	0.18	0.03	-0.10	0.30	0.00	-0.43
-0.73	-0.89	-1.18	-1.01	-0.75	-0.83	-0.62	-0.07	-0.34	-0.45	-0.53	-0.07	-0.33	-0.70

18000 MHz	INTERCEPT (mV)	4722.7
	SLOPE (mV/dB)	69.638

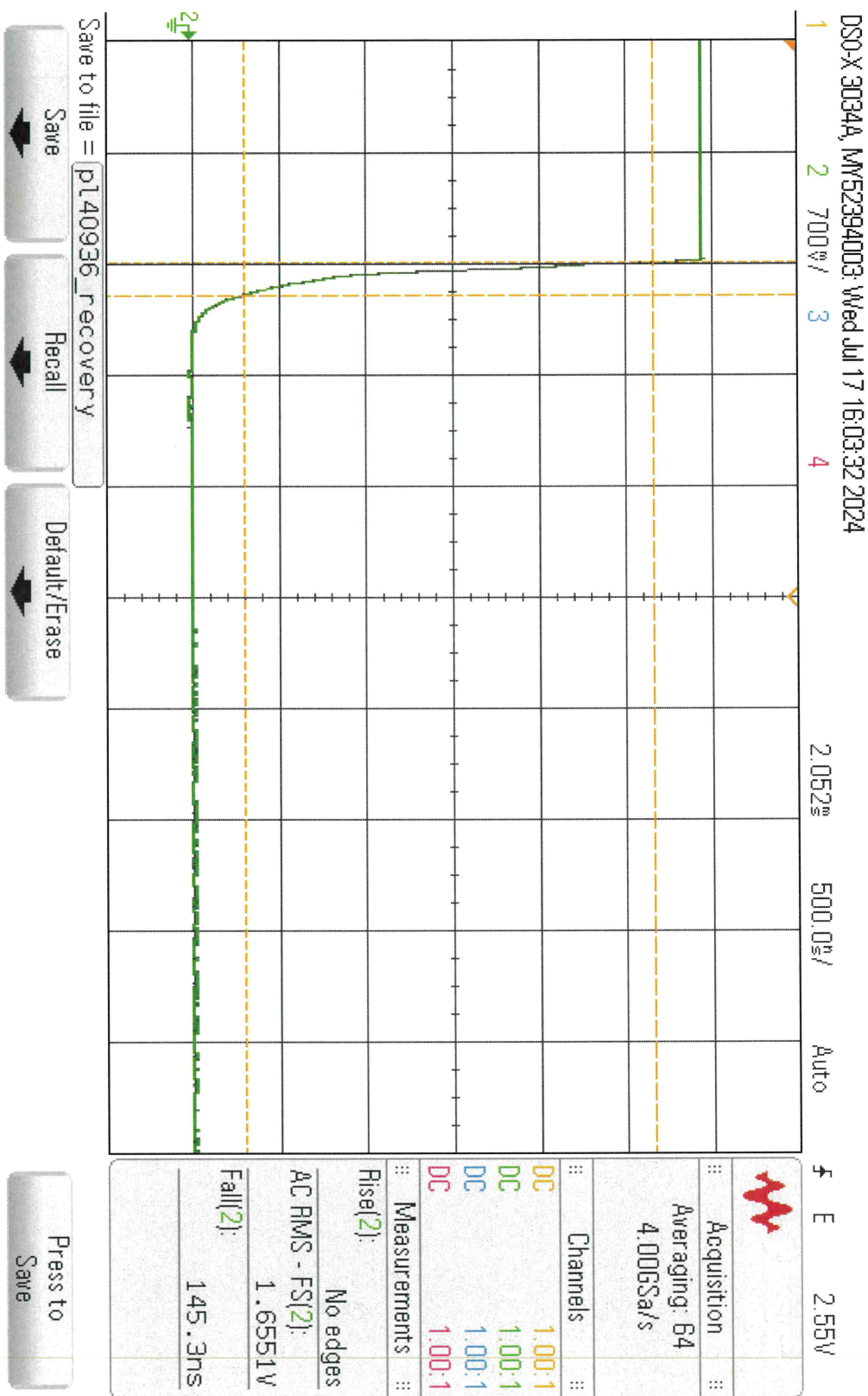
207	540	867	1231	1593	1935	2289	2668	3025	3363	3663	4045	4376	4698
11	-4	-26	-10	4	-2	4	34	14	-5	-15	19	1	-25
0.15	-0.06	-0.37	-0.14	0.06	-0.03	0.05	0.49	0.20	-0.07	-0.22	0.27	0.02	-0.36
-0.91	-1.12	-1.42	-1.19	-0.99	-1.08	-0.99	-0.55	-0.83	-1.11	-1.25	-0.76	-1.01	-1.38

Flatness		+/- dB
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PL40936 BIT



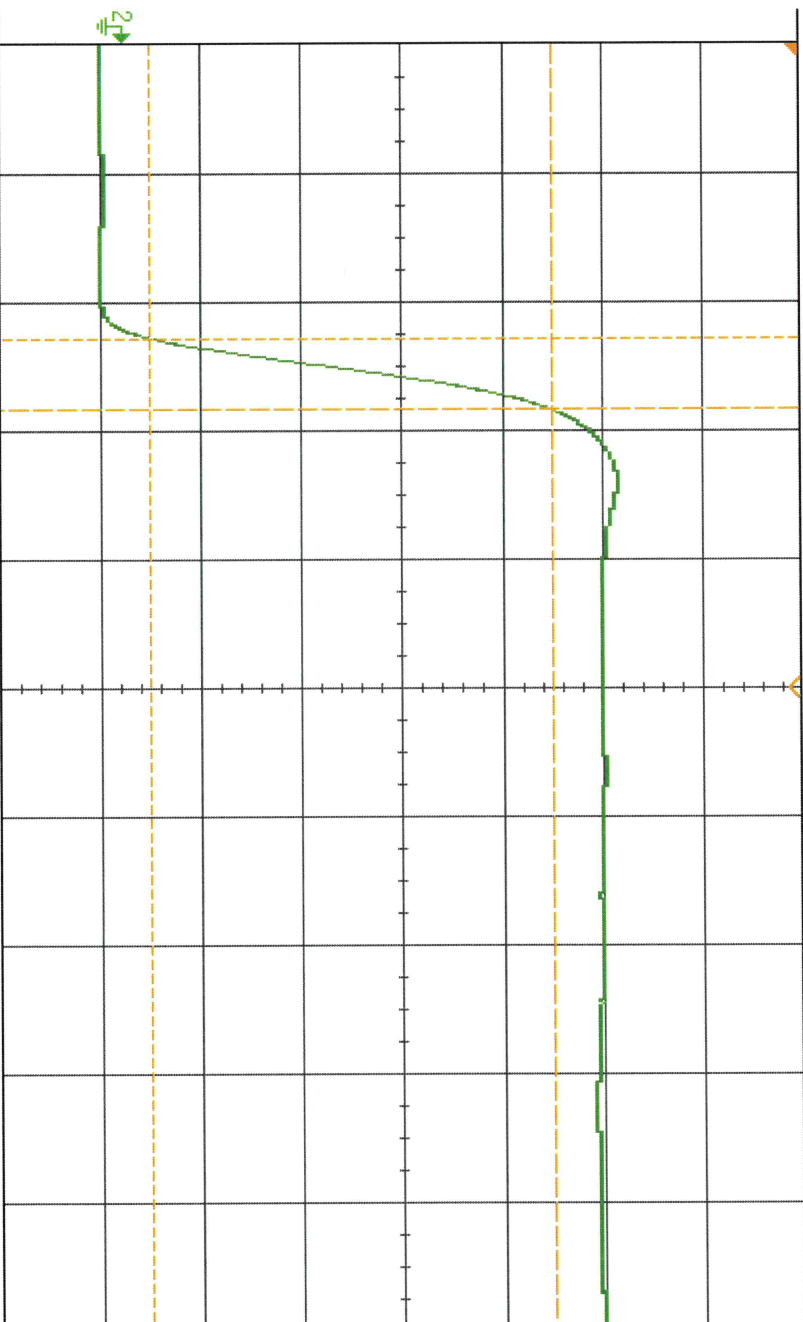
PL40936
Recovery



PL40936
RiseTime

DSO-X 3034A, MY52394003 Wed Jul 17 15:01:44 2024

1 2 50V/ 3 4 4.000ms 50.00ns/ Stop f E 2.55V



Acquire Menu

Acq Mode Averaging

Avgs 512

Segmented

Acquisition	
Averaging: 512	
4.00GSa/s	
Channels	
DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1
Measurements	
Fall(2):	No edges
AC RMS - FS(2):	105.58mV
Rise(2):	27.5ns

PL40936
Settle

