



**Summary Data**  
**For**  
**ERDLVA-2G8G-65-70MV-2**

Customer: \_\_\_\_\_ Tested By: DA  
 SO No: \_\_\_\_\_ Temperature: +25°C (Unless Otherwise Specified)  
 Model No: ERDLVA-2G8G-65-70MV-2 Date 12/5/2025  
 Serial No: PL55683/2549 Drawing No: 27650080 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 8 GHz	2 to 8 GHz	<b>PMI</b> <b>QA3</b>
2	Input VSWR:	2.3:1 Max	1.30:1	
3	Input Power Max:	(1) 1 W CW (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%	<b>Pass</b> (By Design)	
4	Switch Isolation:	60 dB Min (All Ports)	>60dB	
5	Switching Speed:	100 ns Max	<100ns	

7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
 Email: sales@quanticpmi.com

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Serial No: PL55683/2549

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
6	TSS:	-71 dBm	73dBm	PMI QA?
7	Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
8	Log Slope:	70 mV/dB ±3 mV/dB	71.56/70.84mV/dB	
9	Log Linearity:	±1.0 dB Max	+32/-41dB	
10	Log Accuracy @ 25°C:	±1.25 dB Max	+1.00/-1.01dB	
11	Absolute Log Accuracy:	±2.0 dB Max	+1.50/-1.42dB	
12	DC Offset:	±70 mV	10mV	
13	Rise Time:	28 ns Max (10% to 90% @ -50 to 0 dBm, 10% to 90% Full Dynamic Range Guaranteed)	26.0ns @ 0dBm-See Plots	
14	Fall Time:	300 ns Max (10% to 90% @ -50 to 0 dBm, 10% to 90% Full Dynamic Range Guaranteed)	144.7ns @ 0dBm-See Plots	
15	Settling Time:	50 ns Max (From 10% to within 70 mV of final value @ -40 & -10 dBm)	Pass	
16	Recovery Time:	1 us Max (From 90% to within ±1.5 dB of baseline)	<1.0us	
17	Video Frequency Flatness:	±1.25 dB Max @ 25°C	±.90dB	
18	Pulse Width Process Range:	100 ns to 100 us	100 ns to 100 us	
19	Video Output Load Impedance:	95 ±1 Ω	95 Ω	

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Serial No: PL55683/2549

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
20	Video Output @ -65 dBm:	330 ± 88 mV Over Frequency	345/256mV	PMI QA
21	Video Output Drive Capability:	Driving 100 ft RG180 into 95 Ω Load	Pass	
22	Pulse Density Capability:	10% Duty @ 100 ns PW 70% Duty @ 100 us PW	Pass (By Design)	
23	Noise Level:	20 mV RMS Max	11.86mV	
24	Pulse Droop @ -65 dBm:	70 mV Max for PW 100 us	<70mV	
25	Propagation Delay:	50 ns Max (50% RF to 10% Video)	<50ns	
26	CW Immune Power:	TSS to -40 dBm	TSS to -40dBm	
27	Baseline Shift:	200 mV Max @ -40 dBm CW	<200mV	
28	Pulse Amplitude Loss with Pulse @ -30 dBm:	CW @ -50 dBm = No Loss CW @ -40 dBm = 2 dB Max	-50 dBm = Pass -40 dBm = Pass	
29	CW Immue Time @ CW = -40 dBm	4 ms Max	<4.0ms	
30	CW Recovery Time @ CW = -40 dBm	120 us Max	<100us	
31	DC Power:	+15V (±5%) @ 500 mA Max -15V (±5%) @ 200 mA Max	468mA 141mA	
32	Ripple DC to 10 MHz	100 mV Max	<100mV	

QA/QC Approval:  Date: 12-8-25

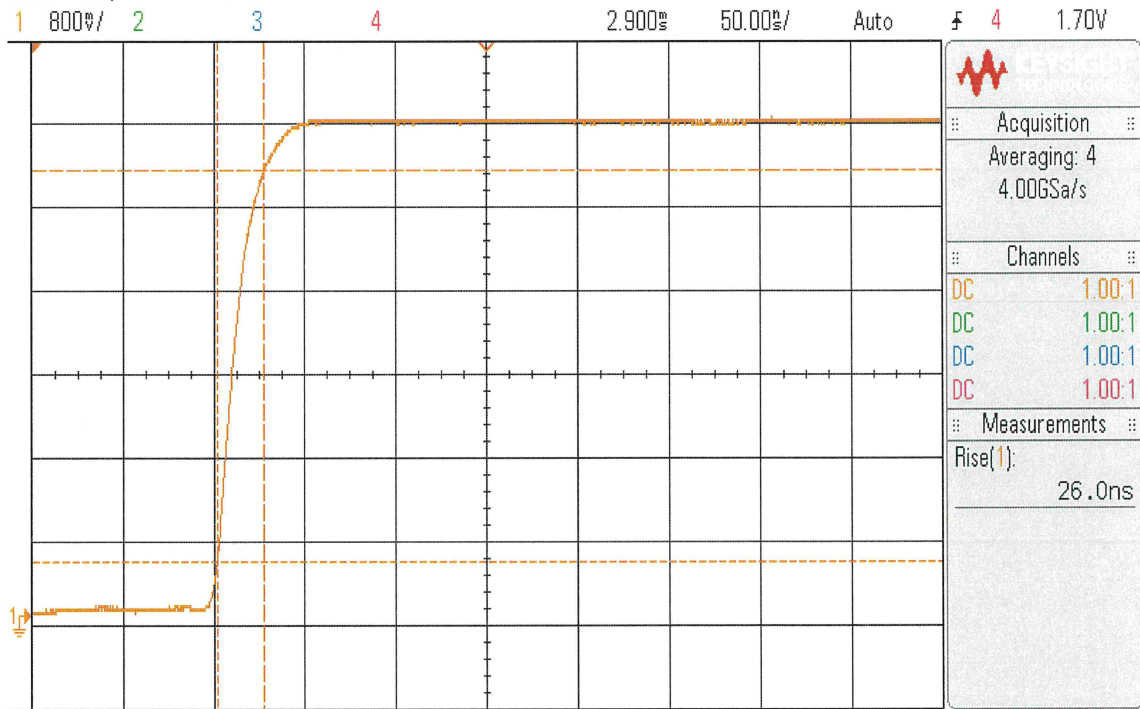
7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

RISE TIME/SETTING TIME @ 0dBm

DSO-X 3034A, MY52394003: Thu Dec 04 14:00:04 2025



Measurement Menu

Source 1 | Type: Rise | Add Measurement | Settings | Clear Meas | Statistics

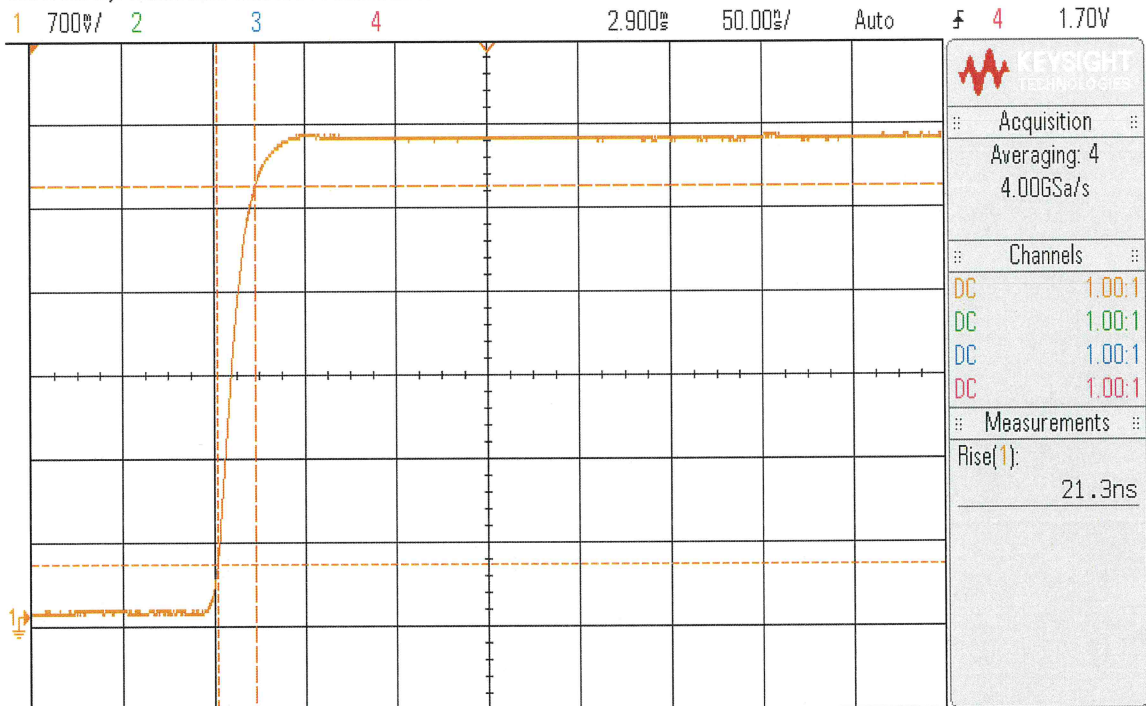
7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

RISE TIME/SETTING TIME @ -10dBm

DSO-X 3034A, MY52394003: Thu Dec 04 14:02:00 2025



Save to file = pl55683\_rise\_10

Save

Recall

Default/Eraser

Press to Save

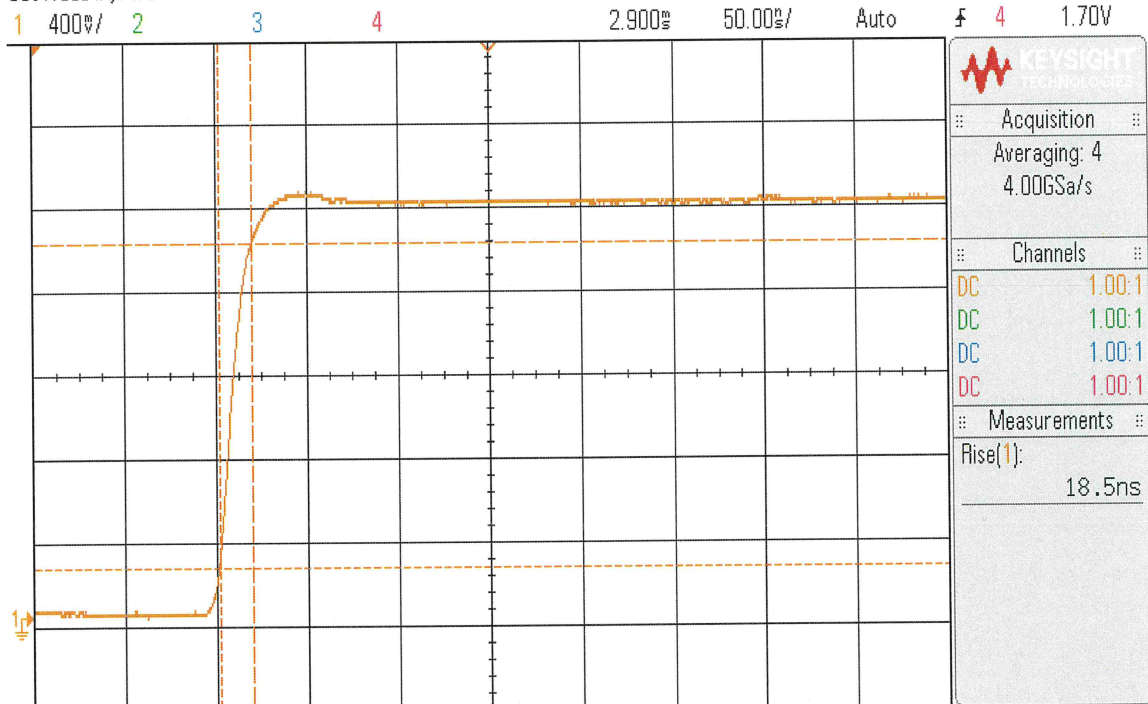
7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

**RISE TIME/SETTING TIME @ -40dBm**

DSO-X 3034A, MY52394003: Thu Dec 04 14:02:34 2025



Save to file = pl55683\_rise\_40

Save

Recall

Default/Erase

Press to Save

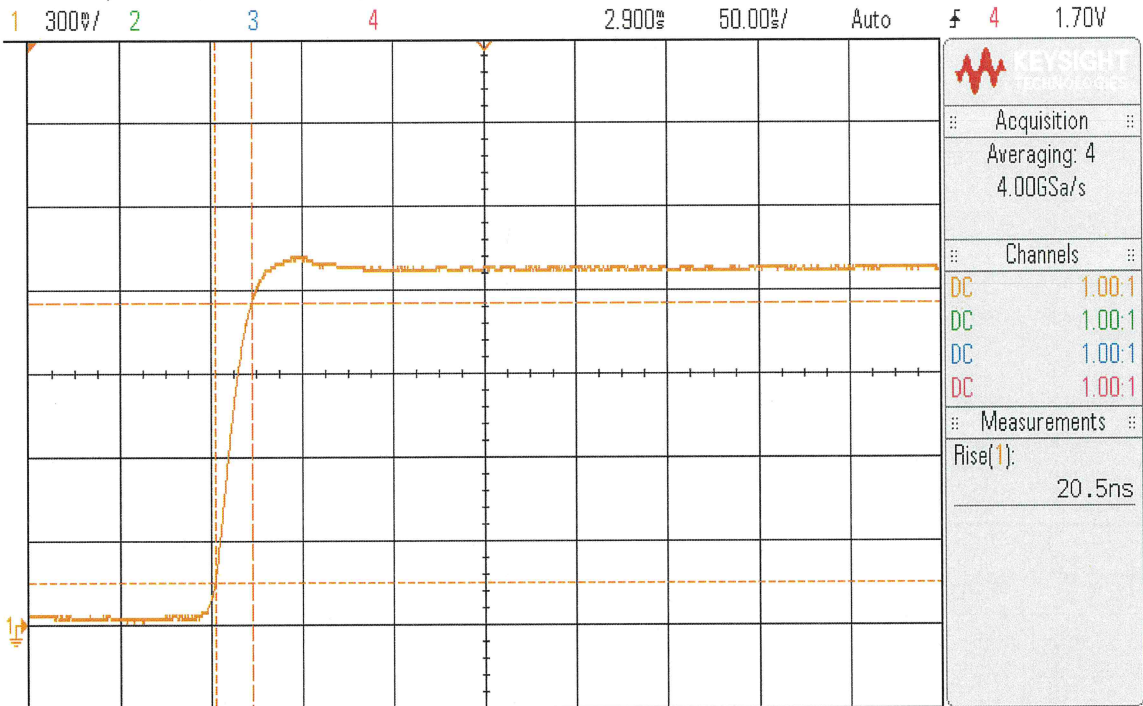
7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

RISE TIME/SETTING TIME @ -50dBm

DSO-X 3034A, MY52394003: Thu Dec 04 14:03:12 2025



Save to file = pl55683\_rise\_50

Save

Recall

Default/Eraser

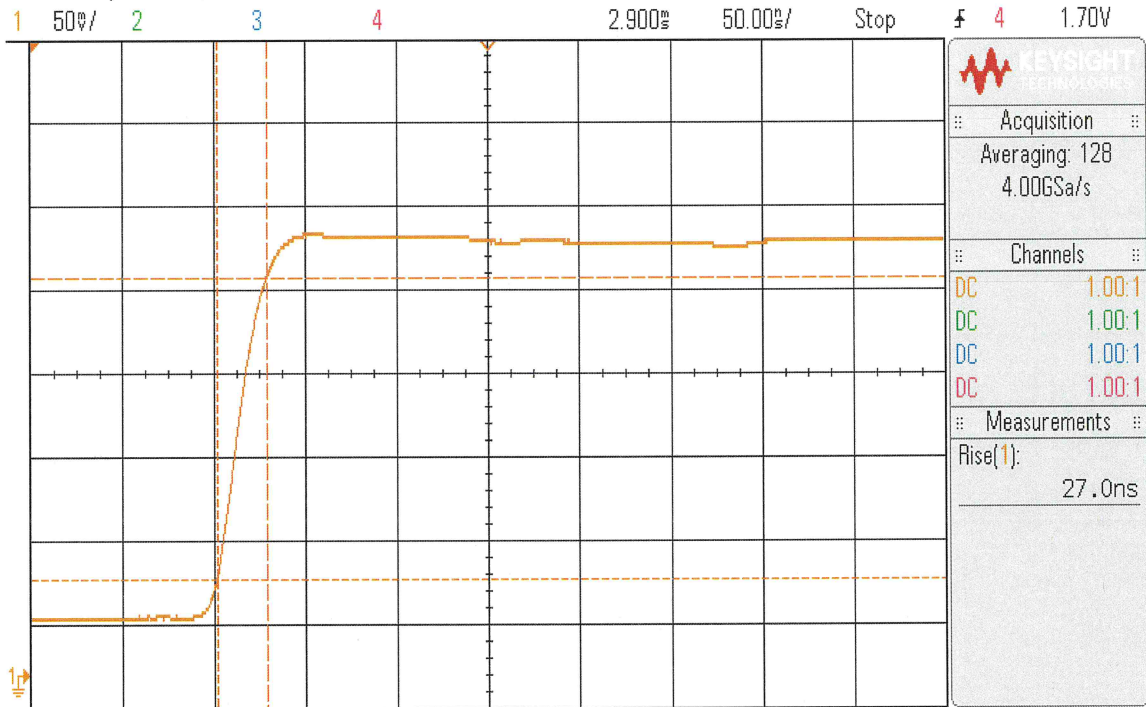
Press to Save

**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

RISE TIME/SETTING TIME @ -65dBm

DSO-X 3034A, MY52394003: Thu Dec 04 14:04:49 2025



Acquire Menu

Acq Mode  
Averaging

# Avgs  
128

Segmented

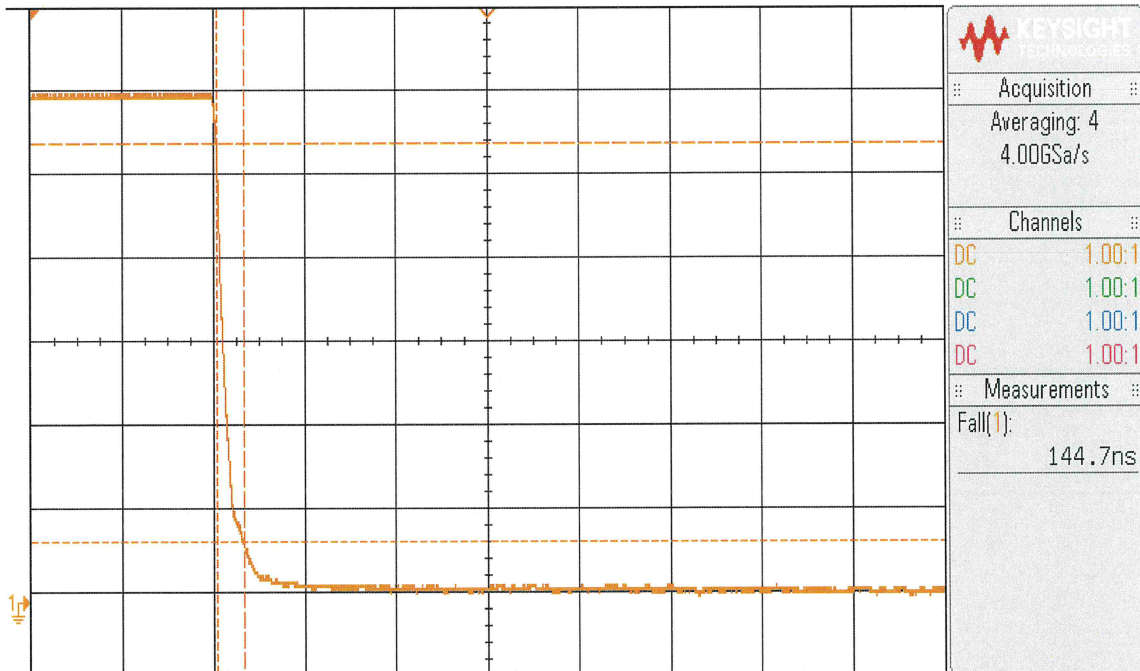
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

RECOVERY TIME @ 0dBm

DSO-X 3034A, MY52394003: Thu Dec 04 14:37:25 2025

1 800V/ 2 3 4 2.952ns 500.0ns/ Auto f 4 1.70V



**KEYSIGHT**  
TECHNOLOGIES

Acquisition  
Averaging: 4  
4.00GSa/s

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

Measurements  
Fall(1):  
144.7ns

Save to file = pl55683\_fall\_0

Save

Recall

Default/Eraser

Press to Save

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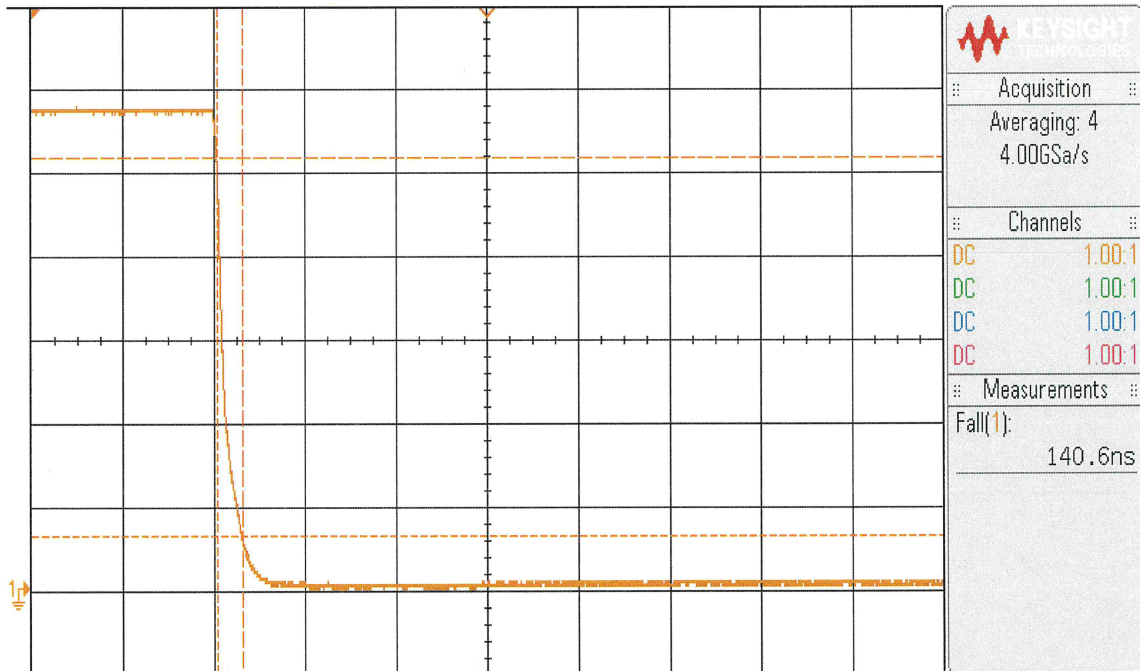
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

RECOVERY TIME @ -20dBm

DSO-X 3034A, MY52394003 Thu Dec 04 14:36:54 2025

1 600V/ 2 3 4 2.952ns 500.0ns/ Auto f 4 1.70V



Save to file = pl55683\_fall\_20

Save    Recall    Default/Eraser    Press to Save

7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

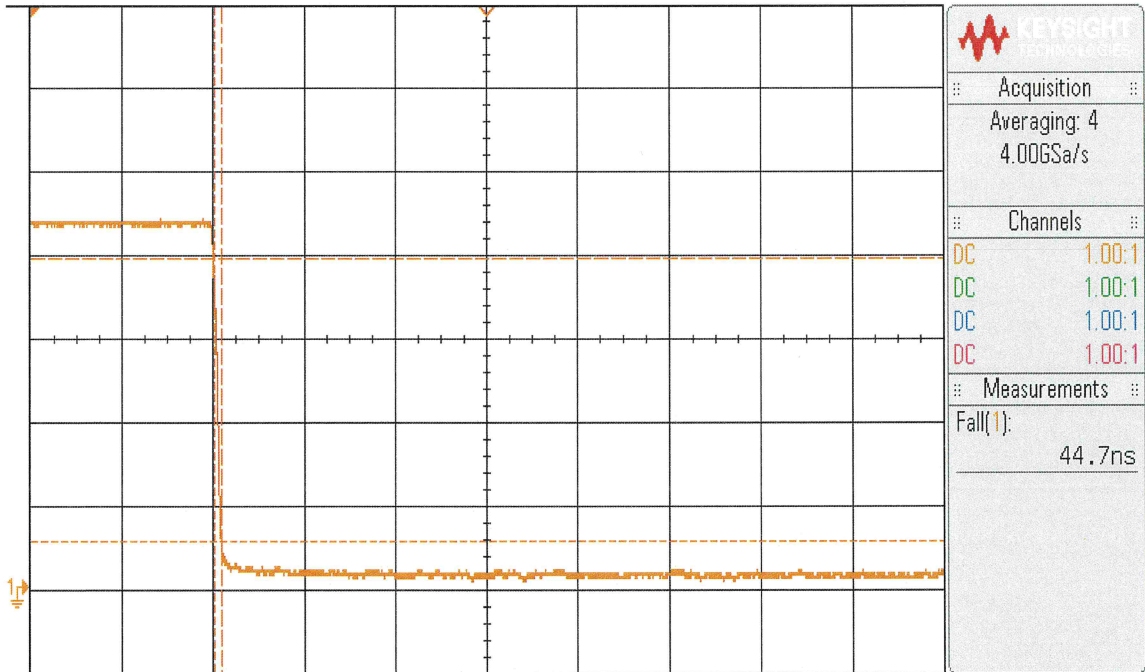
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

**RECOVERY TIME @ -50dBm**

DSO-X 3034A, MY52394003: Thu Dec 04 14:36:22 2025

1 300V/ 2 3 4 2.952% 500.0%/ Auto f 4 1.70V



**KEYSIGHT**  
TECHNOLOGIES

Acquisition  
Averaging: 4  
4.00GSa/s

Channels

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

Measurements

Fall(1):  
44.7ns

Save to file = pl55683\_fall\_50

Save

Recall

Default/Erase

Press to Save

7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

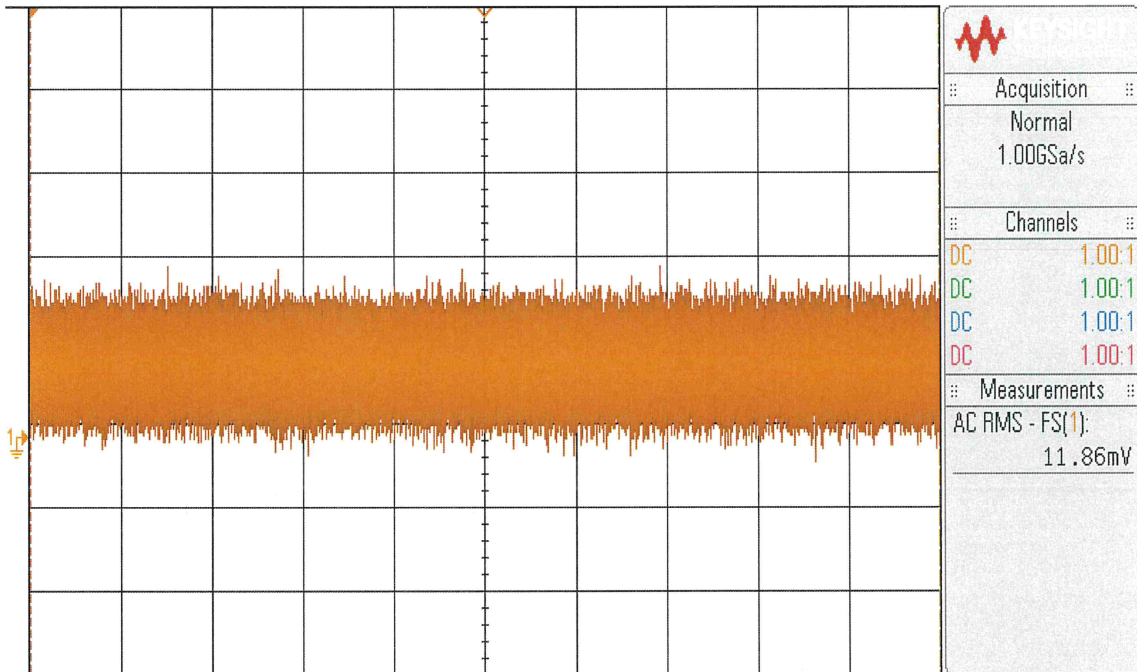
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

**RMS NOISE**

DSO-X 3034A, MY52394003: Thu Dec 04 15:01:02 2025

1 50% / 2 3 4 2.952µs 200.0µs / Auto f 4 1.70V



Measurement Menu

Source 1	Type: AC RMS - FS	Add Measurement	Settings ↓	Clear Meas ↓	Statistics ↓
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7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

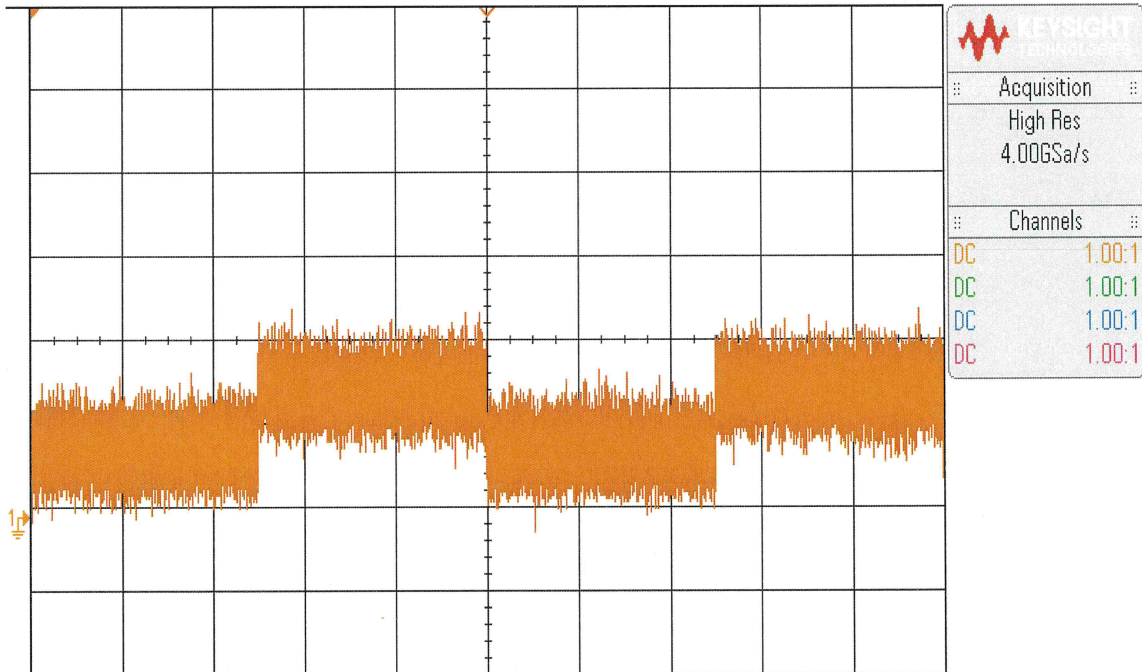
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

TSS

DSO-X 3034A, MY52394003: Thu Dec 04 15:12:25 2025

1 50% 2 3 4 2.950µs 20.00µs/ Auto f 4 1.70V



KEYSIGHT TECHNOLOGIES	
Acquisition	High Res
	4.00GSa/s
Channels	
DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1

Save to file = pl55683\_tss\_73

Save

Recall

Default/Erse

Press to Save

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Email: sales@quanticpmi.com

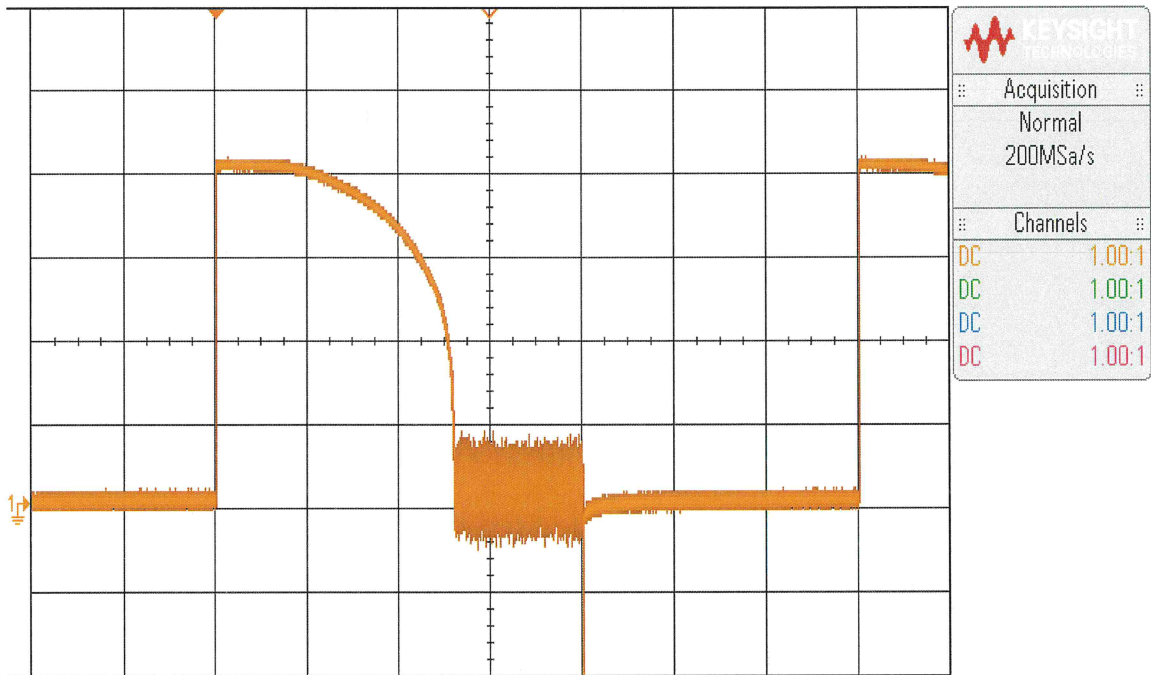
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

CW IMMUNITY TIME

DSO-X 3034A, MY52394003: Wed Dec 03 14:43:44 2025

1 500% / 2 3 4 2.980µs 1.000µs / Auto f 4 1.70V



**KEYSIGHT**  
TECHNOLOGIES

Acquisition  
Normal  
200MSa/s

Channels

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

Acquire Menu

Acq Mode Normal    # Avgs 4    Segmented

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Email: sales@quanticpmi.com

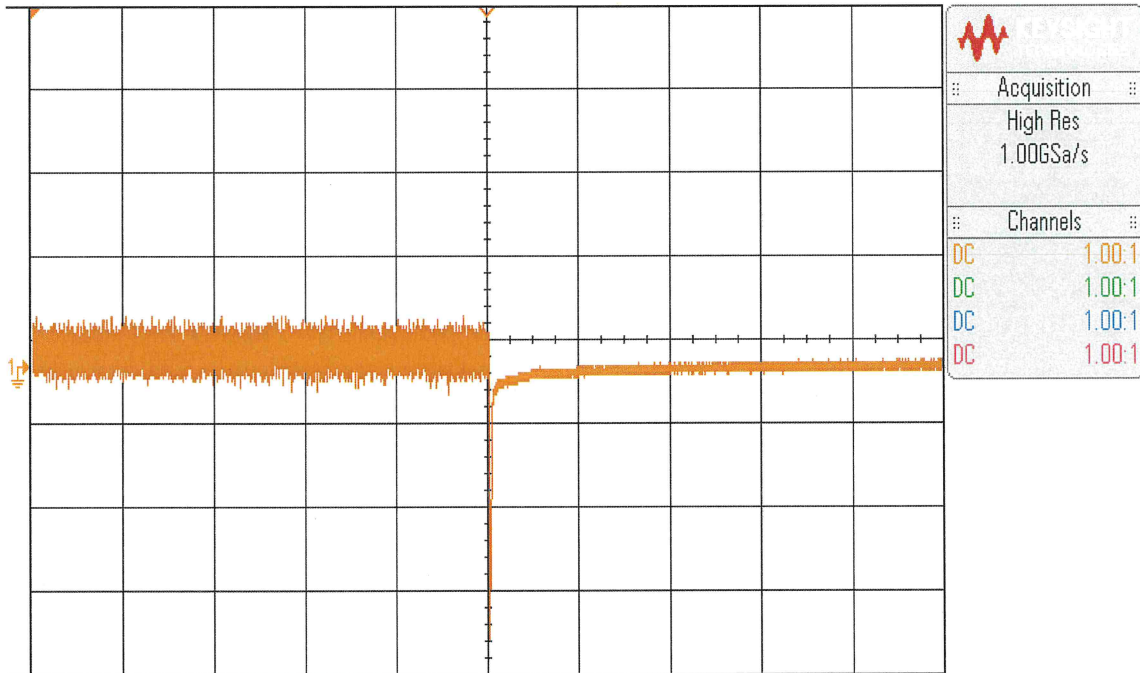
**Summary Data  
For  
ERDLVA-2G8G-65-70MV-2**

Serial No: PL55683/2549

CW RECOVERY TIME

DSO-X 3034A, MY52394003: Thu Dec 04 15:16:00 2025

1 500V/ 2 3 4 4.000ns 100.0ns/ Auto f 4 1.70V



Acquisition	
High Res	
1.00GSa/s	
Channels	
DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1

Save to file = pl55683\_cwrecvr

Save

Recall

Default/Erace

Press to Save

7309-A Grove Road Frederick, MD 21704 USA Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: sales@quanticpmi.com

LOG TRANSFER WITH FREQUENCY  
 MODEL: ERDLVA-2G8G-65-70MV-2  
 TESTED BY: DA  
 DATE: 12-02-25  
 SERIAL NO: PL55683-RF

Test Temp: +25C



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

DC Offset= 0.010

Frequency

2000 MHz	INTERCEPT (mV)	4910.9
	SLOPE (mV/dB)	71.56

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
263	625	976	1318	1704	2056	2413	2744	3125	3460	3834	4173	4569	4933	
3	8	1	-15	13	7	7	-20	3	-20	-3	-22	16	22	
0.05	0.11	0.01	-0.21	0.19	0.10	0.09	-0.28	0.04	-0.28	-0.05	-0.31	0.22	0.31	
-0.53	-0.45	-0.53	-0.73	-0.32	-0.38	-0.37	-0.73	-0.39	-0.69	-0.44	-0.69	-0.14	-0.03	

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

3000 MHz	INTERCEPT (mV)	4965.3
	SLOPE (mV/dB)	70.84

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
345	722	1068	1411	1798	2149	2498	2829	3200	3539	3885	4236	4621	4980	
-16	7	-1	-12	21	17	12	-11	6	-9	-18	-21	10	15	
-0.22	0.10	-0.01	-0.17	0.29	0.25	0.17	-0.16	0.08	-0.13	-0.25	-0.29	0.14	0.21	
0.62	0.91	0.76	0.57	1.00	0.92	0.82	0.46	0.66	0.42	0.27	0.19	0.59	0.63	

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

4000 MHz	INTERCEPT (mV)	4942.7
	SLOPE (mV/dB)	71.17

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
306	680	1029	1369	1755	2107	2462	2797	3173	3506	3866	4213	4597	4953	
-10	8	1	-15	15	11	10	-10	10	-13	-9	-18	10	10	
-0.15	0.11	0.01	-0.21	0.21	0.16	0.15	-0.15	0.14	-0.19	-0.13	-0.25	0.14	0.15	
0.08	0.32	0.22	-0.01	0.40	0.34	0.31	0.01	0.29	-0.04	0.01	-0.13	0.26	0.25	

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

5000 MHz	INTERCEPT (mV)	4957.1
	SLOPE (mV/dB)	71.37

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
312	685	1034	1374	1757	2110	2469	2807	3181	3515	3871	4220	4611	4980	
-6	10	2	-15	12	8	10	-9	8	-15	-16	-23	11	23	
-0.09	0.14	0.03	-0.20	0.16	0.11	0.14	-0.13	0.11	-0.21	-0.22	-0.33	0.15	0.32	
0.16	0.39	0.29	0.06	0.43	0.38	0.41	0.15	0.40	0.08	0.08	-0.03	0.45	0.63	

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

6000 MHz	INTERCEPT (mV)	4911.1
	SLOPE (mV/dB)	71.47

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
270	626	983	1322	1697	2055	2418	2761	3141	3467	3834	4170	4562	4930	
4	3	3	-16	2	3	8	-6	17	-15	-5	-26	8	19	
0.06	0.04	0.04	-0.22	0.03	0.04	0.12	-0.08	0.23	-0.21	-0.07	-0.37	0.12	0.27	
-0.43	-0.43	-0.43	-0.67	-0.41	-0.39	-0.30	-0.49	-0.16	-0.59	-0.44	-0.73	-0.23	-0.07	

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

7000 MHz	INTERCEPT (mV)	4901.1
	SLOPE (mV/dB)	71.22

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
273	631	986	1326	1698	2055	2420	2761	3138	3463	3827	4160	4552	4920	
1	3	2	-14	2	3	12	-3	17	-14	-6	-29	7	19	
0.02	0.04	0.03	-0.20	0.03	0.04	0.16	-0.05	0.24	-0.19	-0.08	-0.41	0.10	0.26	
-0.39	-0.36	-0.39	-0.62	-0.40	-0.39	-0.27	-0.49	-0.20	-0.65	-0.54	-0.87	-0.37	-0.21	

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

8000 MHz	INTERCEPT (mV)	4892.7
	SLOPE (mV/dB)	71.48

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
256	606	964	1305	1669	2030	2400	2745	3125	3453	3819	4150	4543	4909	
10	2	3	-14	-7	-3	9	-3	19	-10	-1	-28	8	16	
0.13	0.03	0.04	-0.19	-0.10	-0.05	0.13	-0.05	0.27	-0.14	-0.02	-0.39	0.11	0.23	
-0.62	-0.72	-0.69	-0.91	-0.81	-0.74	-0.55	-0.72	-0.39	-0.79	-0.65	-1.01	-0.50	-0.37	

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

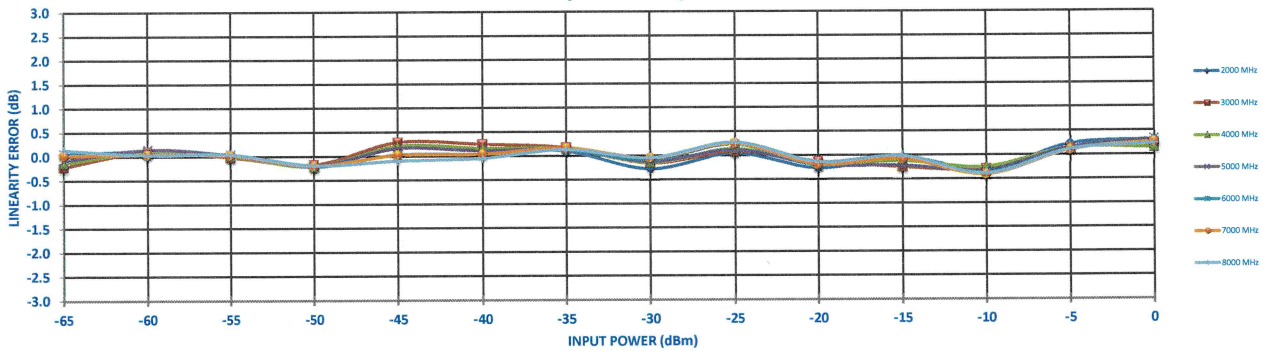
Flatness +/- dB

0.62	0.81	0.73	0.74	0.90	0.83	0.69	0.60	0.53	0.60	0.46	0.60	0.55	0.50
------	------	------	------	------	------	------	------	------	------	------	------	------	------

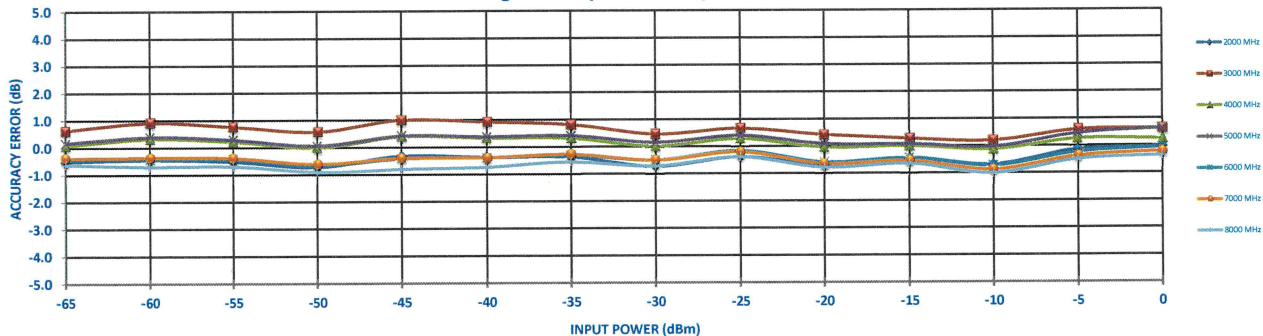
-65dBm mV-Out

345	Max
256	Min

Linearity Error VS Input Power



Log Accuracy Error VS Input Power



LOG TRANSFER WITH FREQUENCY  
 MODEL: ERLVA-2G8G-65-70MV-2  
 TESTED BY: DA  
 DATE: 12-02-25  
 SERIAL NO: PL55683-RF

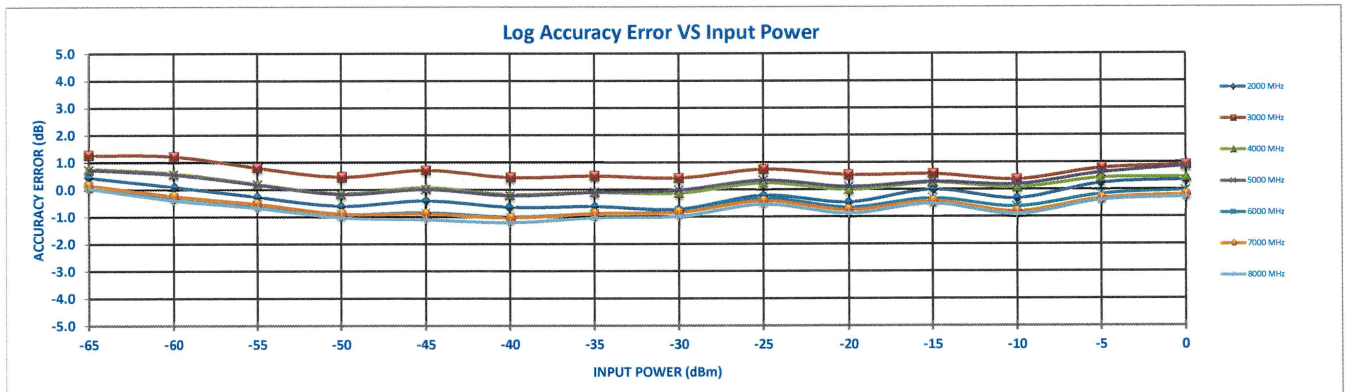
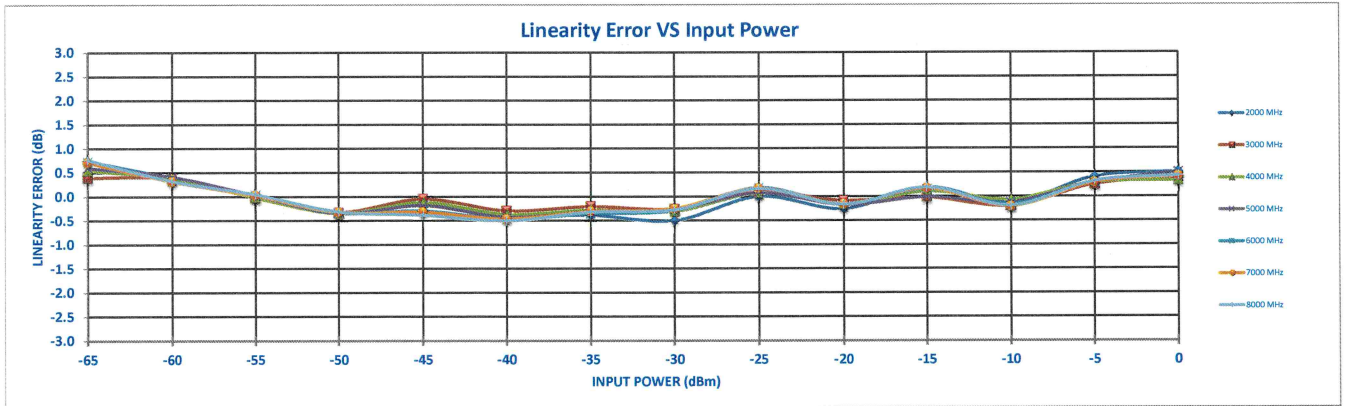
Test Temp: -10C



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 TEL: 916-542-1401 FAX: 301-662-1731  
 EMAIL: SALES@PMI-RF.COM  
 ISO 9001:2000 CERTIFIED

DC Offset= 0.051

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	4929.6															Measured Value (mV)
	SLOPE (mV/dB)	72.32															Error (mV)
			282	618	952	1289	1664	2007	2370	2723	3121	3464	3858	4196	4597	4966	LINEARITY ERROR (dB)
			53	28	0	-24	-11	-30	-28	-37	0	-19	13	-10	29	36	ACCURACY ERROR (dB)
			0.74	0.38	0.00	-0.34	-0.15	-0.41	-0.39	-0.51	-0.01	-0.26	0.18	-0.14	0.40	0.50	
			0.44	0.10	-0.27	-0.60	-0.41	-0.66	-0.63	-0.74	-0.22	-0.47	-0.01	-0.33	0.23	0.34	
3000 MHz	INTERCEPT (mV)	4978.1															Measured Value (mV)
	SLOPE (mV/dB)	71.77															Error (mV)
			341	699	1029	1366	1745	2086	2451	2806	3190	3536	3900	4246	4637	5006	LINEARITY ERROR (dB)
			28	27	-2	-24	-3	-21	-15	-19	6	-7	-2	-14	18	28	ACCURACY ERROR (dB)
			0.54	0.38	-0.02	-0.33	-0.05	-0.30	-0.21	-0.26	0.09	-0.09	-0.02	-0.20	0.25	0.39	
			1.26	1.22	0.79	0.46	0.71	0.44	0.50	0.41	0.73	0.53	0.57	0.37	0.78	0.90	
4000 MHz	INTERCEPT (mV)	4950.6															Measured Value (mV)
	SLOPE (mV/dB)	72.06															Error (mV)
			305	654	986	1322	1699	2041	2408	2766	3154	3497	3877	4225	4611	4974	LINEARITY ERROR (dB)
			39	27	-1	-25	-9	-27	-20	-23	5	-12	7	-5	21	25	ACCURACY ERROR (dB)
			0.54	0.38	-0.01	-0.35	-0.12	-0.37	-0.28	-0.31	0.07	-0.17	0.10	-0.07	0.29	0.32	
			0.76	0.60	0.20	-0.15	0.08	-0.19	-0.10	-0.14	0.24	-0.01	0.25	0.07	0.42	0.45	
5000 MHz	INTERCEPT (mV)	4966.5															Measured Value (mV)
	SLOPE (mV/dB)	72.42															Error (mV)
			302	651	985	1320	1694	2038	2408	2774	3161	3505	3879	4233	4625	5003	LINEARITY ERROR (dB)
			43	30	2	-25	-13	-32	-24	-20	5	-13	-1	-9	21	37	ACCURACY ERROR (dB)
			0.59	0.41	0.02	-0.35	-0.19	-0.44	-0.33	-0.27	0.07	-0.18	-0.02	-0.13	0.29	0.50	
			0.72	0.56	0.18	-0.17	0.01	-0.23	-0.10	-0.03	0.33	0.10	0.28	0.19	0.62	0.85	
6000 MHz	INTERCEPT (mV)	4909.1															Measured Value (mV)
	SLOPE (mV/dB)	72.35															Error (mV)
			259	591	932	1267	1632	1981	2351	2717	3113	3450	3835	4174	4568	4939	LINEARITY ERROR (dB)
			53	23	2	-25	-21	-34	-26	-22	13	-12	11	-12	21	30	ACCURACY ERROR (dB)
			0.73	0.32	0.03	-0.34	-0.30	-0.47	-0.36	-0.30	0.17	-0.17	0.15	-0.16	0.29	0.41	
			0.12	-0.28	-0.55	-0.91	-0.85	-1.02	-0.89	-0.82	-0.33	-0.66	-0.33	-0.63	-0.17	-0.03	
7000 MHz	INTERCEPT (mV)	4897															Measured Value (mV)
	SLOPE (mV/dB)	72.11															Error (mV)
			261	593	933	1268	1629	1979	2351	2715	3106	3443	3827	4161	4557	4927	LINEARITY ERROR (dB)
			51	22	2	-24	-23	-34	-22	-19	12	-12	12	-15	21	30	ACCURACY ERROR (dB)
			0.71	0.31	0.03	-0.33	-0.32	-0.47	-0.31	-0.26	0.16	-0.17	0.16	-0.21	0.28	0.42	
			0.15	-0.25	-0.54	-0.90	-0.89	-1.04	-0.89	-0.85	-0.43	-0.76	-0.44	-0.81	-0.33	-0.20	
8000 MHz	INTERCEPT (mV)	4890.4															Measured Value (mV)
	SLOPE (mV/dB)	72.19															Error (mV)
			253	582	923	1258	1614	1966	2340	2704	3097	3434	3821	4154	4552	4921	LINEARITY ERROR (dB)
			55	23	3	-23	-28	-37	-24	-21	11	-13	13	-14	23	31	ACCURACY ERROR (dB)
			0.76	0.32	0.04	-0.32	-0.39	-0.51	-0.33	-0.29	0.16	-0.17	0.19	-0.20	0.31	0.42	
			0.04	-0.40	-0.68	-1.03	-1.10	-1.22	-1.04	-1.00	-0.55	-0.88	-0.52	-0.91	-0.39	-0.28	
Flatness		+/- dB	0.61	0.81	0.73	0.75	0.91	0.83	0.77	0.71	0.64	0.71	0.55	0.64	0.59	0.59	
-65dBm mV-Out			341	Max	253	Min											



LOG TRANSFER WITH FREQUENCY  
 MODEL: ERDLVA-2G8G-65-70MV-2  
 TESTED BY: DA  
 DATE: 12-02-25  
 SERIAL NO: PL55683-RF

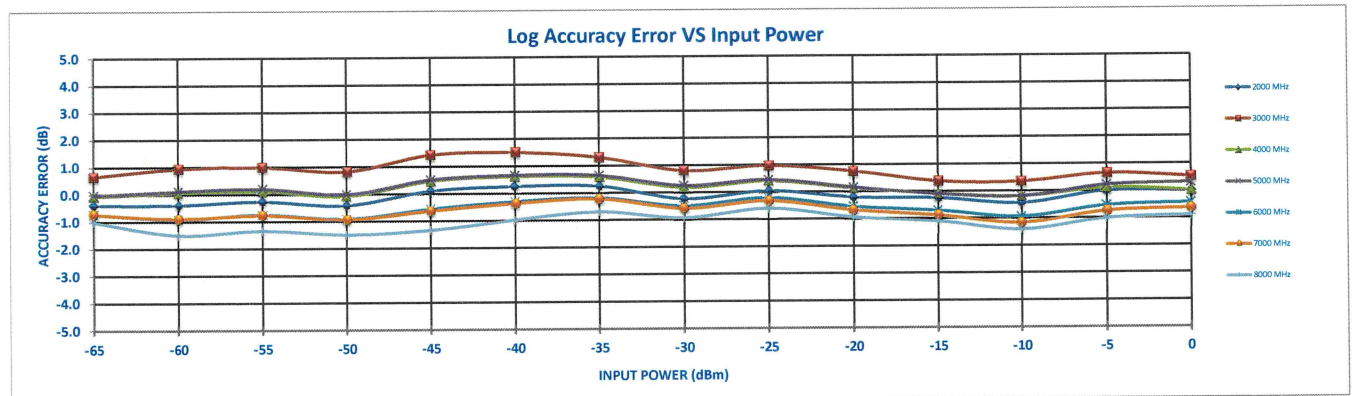
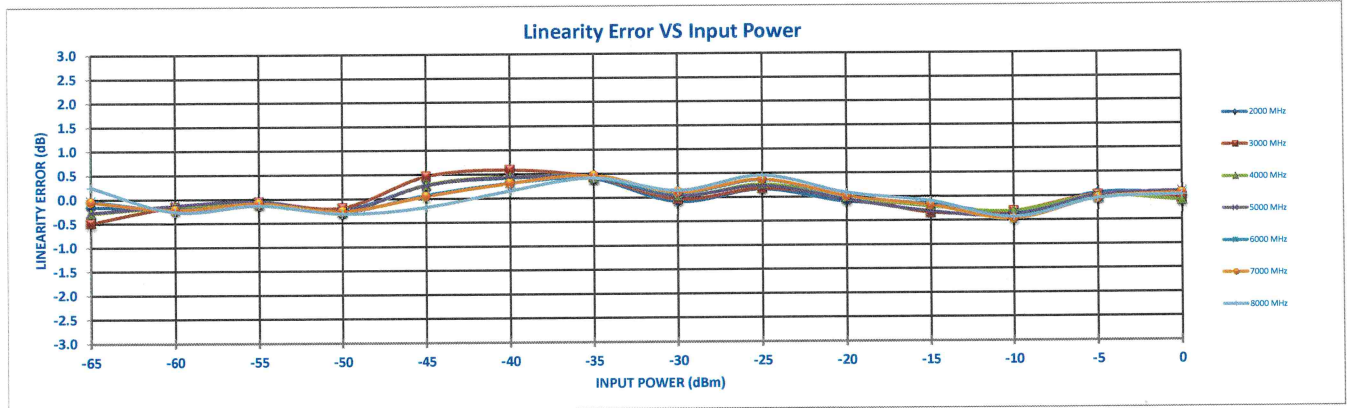
Test Temp: +85C



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

DC Offset= 0.069

Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	4721.4														
	SLOPE (mV/dB)	68.07														
	Measured Value (mV)	286	625	973	1302	1677	2027	2366	2673	3031	3353	3690	4016	4385	4724	
	Error (mV)	-11	-12	-5	-16	19	28	27	-6	11	-7	-10	-25	4	3	
	LINEARITY ERROR (dB)	-0.16	-0.18	-0.07	-0.23	0.27	0.42	0.40	-0.09	0.17	-0.10	-0.15	-0.36	0.06	0.04	
	ACCURACY ERROR (dB)	-0.40	-0.40	-0.28	-0.43	0.09	0.25	0.24	-0.23	0.04	-0.22	-0.25	-0.45	-0.01	-0.02	
3000 MHz	INTERCEPT (mV)	4764.5														
	SLOPE (mV/dB)	67.30														
	Measured Value (mV)	357	716	1059	1387	1767	2112	2438	2743	3094	3418	3732	4070	4429	4760	
	Error (mV)	-33	-11	-4	-13	31	39	29	-3	12	-1	-23	-21	1	-4	
	LINEARITY ERROR (dB)	-0.49	-0.16	-0.06	-0.19	0.46	0.59	0.43	-0.04	0.18	-0.01	-0.34	-0.32	0.02	-0.07	
	ACCURACY ERROR (dB)	0.65	0.94	0.99	0.82	1.42	1.50	1.30	0.80	0.97	0.74	0.37	0.35	0.64	0.51	
4000 MHz	INTERCEPT (mV)	4732														
	SLOPE (mV/dB)	67.76														
	Measured Value (mV)	308	656	999	1326	1702	2052	2389	2701	3056	3376	3701	4033	4393	4725	
	Error (mV)	-20	-10	-6	-16	19	30	29	2	18	-1	-15	-21	0	-7	
	LINEARITY ERROR (dB)	-0.29	-0.15	-0.09	-0.27	0.28	0.45	0.42	0.03	0.27	-0.01	-0.22	-0.32	0.00	-0.10	
	ACCURACY ERROR (dB)	-0.07	0.05	0.11	-0.08	0.46	0.62	0.58	0.18	0.41	0.12	-0.09	-0.20	0.11	0.00	
5000 MHz	INTERCEPT (mV)	4738.8														
	SLOPE (mV/dB)	67.83														
	Measured Value (mV)	311	660	1005	1330	1705	2055	2393	2706	3059	3378	3700	4033	4400	4745	
	Error (mV)	-19	-9	-3	-17	19	29	28	2	16	-4	-21	-27	0	6	
	LINEARITY ERROR (dB)	-0.28	-0.13	-0.05	-0.25	0.27	0.43	0.42	0.03	0.24	-0.06	-0.31	-0.40	0.01	0.09	
	ACCURACY ERROR (dB)	-0.03	0.11	0.19	-0.02	0.51	0.66	0.64	0.25	0.45	0.15	-0.10	-0.20	0.21	0.29	
6000 MHz	INTERCEPT (mV)	4692.5														
	SLOPE (mV/dB)	68.12														
	Measured Value (mV)	263	590	940	1268	1632	1989	2337	2655	3014	3330	3659	3982	4349	4695	
	Error (mV)	-2	-16	-6	-19	5	21	29	6	24	0	-12	-29	-3	2	
	LINEARITY ERROR (dB)	-0.29	-0.23	-0.09	-0.28	0.07	0.31	0.42	0.09	0.36	0.00	-0.17	-0.43	-0.04	0.04	
	ACCURACY ERROR (dB)	-0.74	-0.92	-0.76	-0.93	-0.57	-0.31	-0.18	-0.50	-0.21	-0.55	-0.71	-0.95	-0.54	-0.45	
7000 MHz	INTERCEPT (mV)	4677.7														
	SLOPE (mV/dB)	67.86														
	Measured Value (mV)	263	591	939	1267	1627	1984	2334	2649	3006	3321	3647	3967	4335	4681	
	Error (mV)	-4	-15	-6	-18	3	21	31	7	25	1	-13	-32	-3	3	
	LINEARITY ERROR (dB)	-0.06	-0.22	-0.09	-0.26	0.04	0.31	0.46	0.11	0.37	0.01	-0.19	-0.47	-0.05	0.05	
	ACCURACY ERROR (dB)	-0.74	-0.90	-0.78	-0.95	-0.64	-0.38	-0.23	-0.59	-0.33	-0.69	-0.88	-1.17	-0.75	-0.65	
8000 MHz	INTERCEPT (mV)	4662.1														
	SLOPE (mV/dB)	68.23														
	Measured Value (mV)	244	550	900	1229	1579	1943	2302	2625	2987	3303	3632	3950	4317	4663	
	Error (mV)	17	-18	-9	-21	-13	10	28	10	31	6	-7	-30	-4	1	
	LINEARITY ERROR (dB)	0.25	-0.27	-0.14	-0.32	-0.19	0.15	0.41	0.14	0.45	0.08	-0.10	-0.44	-0.06	0.01	
	ACCURACY ERROR (dB)	-1.02	-1.51	-1.35	-1.51	-1.35	-0.99	-0.70	-0.94	-0.61	-0.95	-1.11	-1.42	-1.01	-0.92	
Flatness	+/- dB	0.83	1.22	1.17	1.16	1.38	1.24	1.00	0.87	0.79	0.85	0.74	0.88	0.82	0.71	
-65dBm mV-Out		357	Max	244	Min											



LOG TRANSFER WITH FREQUENCY  
 MODEL: ERLVA-2G8G-65-70MV-2  
 TESTED BY: DA  
 DATE: 12-02-25  
 SERIAL NO: PL55683-Bit

Test Temp: +25C



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

DC Offset= 0.009

Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	4917.6														Measured Value (mV)
	SLOPE (mV/dB)	71.55														
		272	633	982	1324	1710	2063	2420	2751	3133	3469	3842	4182	4577	4935	LINEARITY ERROR (dB)
		5	8	-1	-16	12	7	7	-20	4	-18	-2	-20	17	17	ACCURACY ERROR (dB)
		0.07	0.11	-0.01	-0.23	0.17	0.10	0.09	-0.28	0.06	-0.25	-0.03	-0.28	0.24	0.24	
		-0.58	-0.51	-0.61	-0.81	-0.40	-0.44	-0.43	-0.79	-0.43	-0.71	-0.48	-0.71	-0.17	-0.14	
3000 MHz	INTERCEPT (mV)	4971.4														Measured Value (mV)
	SLOPE (mV/dB)	70.82														
		349	729	1076	1419	1805	2155	2505	2837	3207	3547	3892	4244	4628	4981	LINEARITY ERROR (dB)
		-19	7	0	-11	21	17	12	-10	6	-8	-17	-19	11	10	ACCURACY ERROR (dB)
		-0.27	0.10	0.00	-0.16	0.29	0.23	0.18	-0.14	0.09	-0.11	-0.24	-0.27	0.15	0.14	
		0.51	0.84	0.71	0.52	0.94	0.85	0.76	0.42	0.61	0.38	0.22	0.16	0.55	0.50	
4000 MHz	INTERCEPT (mV)	4950.1														Measured Value (mV)
	SLOPE (mV/dB)	71.11														
		317	692	1039	1380	1765	2117	2472	2808	3183	3517	3875	4223	4605	4956	LINEARITY ERROR (dB)
		-11	9	0	-15	15	11	11	-9	10	-11	-9	-16	10	6	ACCURACY ERROR (dB)
		-0.16	0.12	0.00	-0.21	0.21	0.16	0.15	-0.13	0.15	-0.16	-0.12	-0.23	0.15	0.08	
		0.06	0.32	0.19	-0.03	0.37	0.31	0.30	0.01	0.27	-0.04	-0.02	-0.13	0.23	0.15	
5000 MHz	INTERCEPT (mV)	4968.8														Measured Value (mV)
	SLOPE (mV/dB)	71.31														
		324	701	1050	1389	1772	2125	2482	2822	3195	3531	3882	4234	4623	4988	LINEARITY ERROR (dB)
		-10	11	3	-14	12	9	9	-8	9	-12	-17	-22	11	19	ACCURACY ERROR (dB)
		-0.14	0.15	0.04	-0.20	0.17	0.12	0.13	-0.11	0.12	-0.16	-0.24	-0.30	0.15	0.27	
		0.15	0.44	0.34	0.10	0.47	0.43	0.44	0.21	0.44	0.16	0.08	0.02	0.48	0.60	
6000 MHz	INTERCEPT (mV)	4920.3														Measured Value (mV)
	SLOPE (mV/dB)	71.45														
		276	638	993	1333	1708	2066	2429	2771	3152	3479	3843	4181	4571	4935	LINEARITY ERROR (dB)
		0	5	2	-15	3	4	9	-6	18	-12	-6	-25	8	15	ACCURACY ERROR (dB)
		0.00	0.06	0.03	-0.21	0.04	0.05	0.13	-0.08	0.25	-0.17	-0.08	-0.35	0.11	0.21	
		-0.52	-0.44	-0.46	-0.69	-0.43	-0.40	-0.31	-0.51	-0.16	-0.57	-0.47	-0.72	-0.25	-0.14	
7000 MHz	INTERCEPT (mV)	4906.7														Measured Value (mV)
	SLOPE (mV/dB)	71.17														
		279	640	994	1334	1706	2063	2428	2768	3145	3471	3834	4168	4558	4921	LINEARITY ERROR (dB)
		-1	4	2	-14	2	3	12	-3	18	-12	-5	-27	7	14	ACCURACY ERROR (dB)
		-0.02	0.05	0.03	-0.20	0.03	0.05	0.17	-0.05	0.25	-0.17	-0.07	-0.38	0.10	0.20	
		-0.48	-0.41	-0.44	-0.67	-0.45	-0.44	-0.32	-0.55	-0.26	-0.69	-0.59	-0.91	-0.43	-0.34	
8000 MHz	INTERCEPT (mV)	4907.2														Measured Value (mV)
	SLOPE (mV/dB)	71.45														
		269	624	980	1320	1687	2046	2416	2761	3142	3470	3833	4167	4558	4919	LINEARITY ERROR (dB)
		6	4	2	-15	-5	-3	9	-3	21	-8	-2	-26	8	12	ACCURACY ERROR (dB)
		0.08	0.05	0.03	-0.21	-0.07	-0.05	0.13	-0.04	0.29	-0.12	-0.03	-0.36	0.11	0.16	
		-0.62	-0.64	-0.64	-0.87	-0.72	-0.68	-0.49	-0.65	-0.30	-0.70	-0.61	-0.92	-0.43	-0.37	
Flatness	+/- dB	0.56	0.74	0.67	0.69	0.83	0.76	0.62	0.60	0.52	0.55	0.41	0.54	0.49	0.48	
-65dBm mV-Out		349	Max	269	Min											

