



**SUMMARY TEST DATA
ON
HADA-D2001**

PL47260/2504

14	Power Supply:	+12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max	85 mA 40 mA	PMI QA3
15	Warm Up Time:	2 Minutes Max	2 Minutes	

*Notes: Includes Frequency Flatness. Input Power, Temperature Deviation and Deviation for DC Offset. The test shall be performed using RG-316 (or equivalent), 20cm, 93±0.5 Ohms terminated.

QA/QC Approval: K. Klamm Date: 1-24-25

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SUMMARY TEST DATA ON HADA-D2001

PL47260/2504

Log Linearity and Log Accuracy @ +25°C

LOG TRANSFER WITH FREQUENCY
 MODEL: HADA-D2001
 TESTED BY: Joshua Monley
 TEST DATE: 01/23/2025
 SERIAL NO: PL47260
 TEST TEMP: +25C

Graph #1

DC Offset= 0.095 V



PLANAR MONOLITHICS INDUSTRIES
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Frequency	INTERCEPT (mV)	2366
0.5 GHz	SLOPE (mV/dB)	50.2

1 GHz	INTERCEPT (mV)	2376
	SLOPE (mV/dB)	50.1

2 GHz	INTERCEPT (mV)	2373
	SLOPE (mV/dB)	50.2

Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

	-40	-35	-30	-25	-20	-15	-10	-5	0
	347	622	867	1108	1372	1620	1845	2110	2375
	-13	12	6	-6	9	7	-19	-5	9
	-0.25	0.23	0.12	-0.12	0.19	0.13	-0.38	-0.10	0.18
	-0.06	0.44	0.34	0.12	0.44	0.40	-0.10	0.20	0.50
	358	631	877	1115	1380	1630	1855	2121	2383
	-11	11	6	-7	8	7	-19	-3	8
	-0.23	0.22	0.12	-0.13	0.16	0.14	-0.37	-0.07	0.16
	0.16	0.62	0.54	0.30	0.60	0.60	0.10	0.42	0.66
	356	628	873	1111	1376	1627	1851	2121	2383
	-10	11	6	-5	8	6	-19	-2	10
	-0.19	0.23	0.11	-0.15	0.13	0.13	-0.41	-0.03	0.19
	0.12	0.50	0.48	0.22	0.52	0.54	0.20	0.42	0.66
	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	0.36	0.63	0.88	1.12	1.38	1.63	1.86	2.12	2.38
	0.35	0.62	0.87	1.11	1.37	1.62	1.85	2.11	2.38

RF Input Power (dBm)

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.23 -0.38
LOGGING ACCURACY (dB)	0.50 -0.10

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.22 -0.37
LOGGING ACCURACY (dB)	0.66 0.10

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.23 -0.41 x
LOGGING ACCURACY (dB)	0.66 0.02

Logging Linearity vs Frequency	Error(dB)
	MAX MIN
TOTAL LOG LINEARITY (dB)	0.23 -0.41

Logging Accuracy vs Frequency	Error(dB)
	MAX MIN
TOTAL LOGGING ACCURACY (dB)	0.66 -0.10

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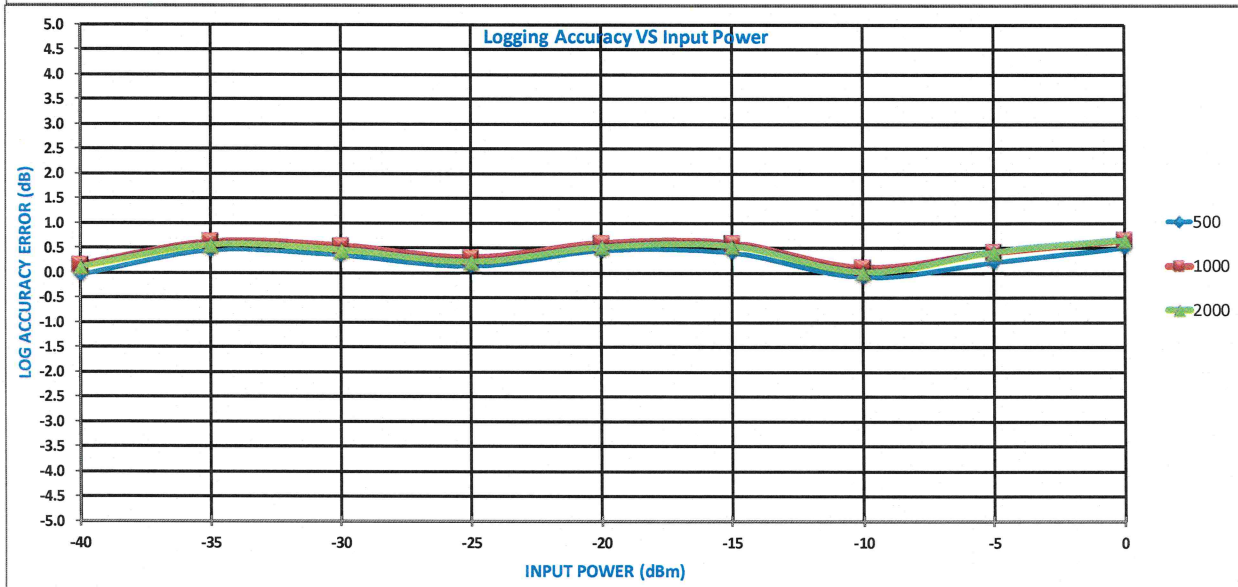
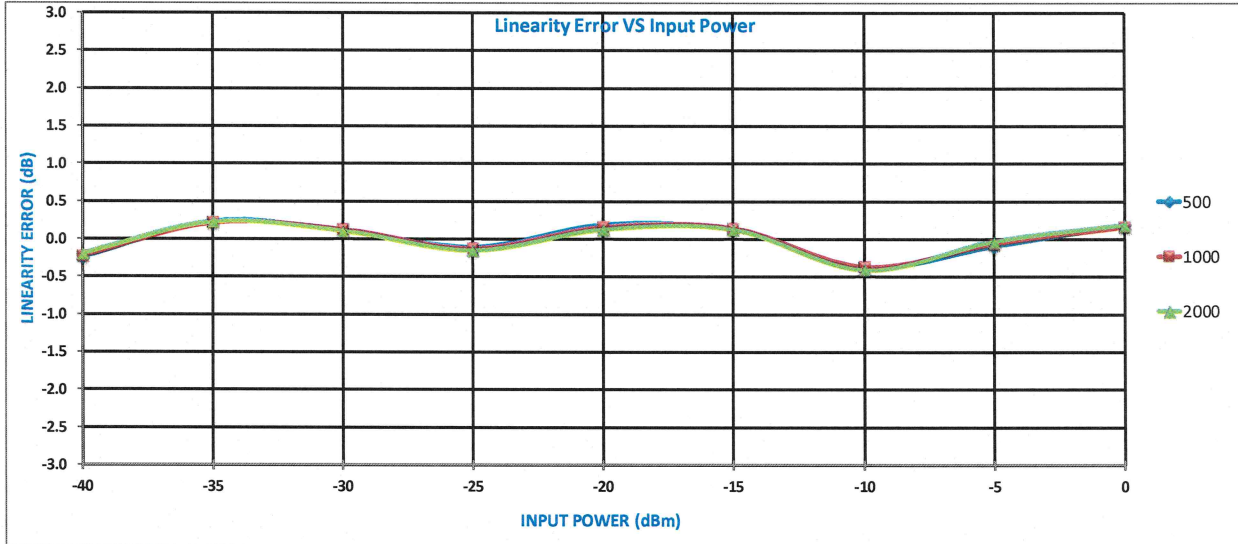


SUMMARY TEST DATA ON HADA-D2001

PL47260/2504

Log Linearity and Log Accuracy @ +25°C

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: Joshua Monley
SERIAL NO: PL47260
TEST TEMP: +25C



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**SUMMARY TEST DATA
ON
HADA-D2001**

PL47260/2504

Log Linearity and Log Accuracy @ -40°C

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: Joshua Monley
TEST DATE: 01/23/2025
SERIAL NO: PL47260
TEST TEMP: -40C

Graph #2

DC Offset= 0.031 V



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Frequency	INTERCEPT (mV)	2321
0.5 GHz	SLOPE (mV/dB)	49.8

1 GHz	INTERCEPT (mV)	2328
	SLOPE (mV/dB)	49.7

2 GHz	INTERCEPT (mV)	2328
	SLOPE (mV/dB)	49.7

Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

	-40	-35	-30	-25	-20	-15	-10	-5	0
	313	581	831	1071	1337	1586	1814	2068	2315
	-14	4	5	-4	13	13	-8	-4	-6
	-0.29	0.09	0.11	-0.08	0.26	0.26	-0.17	-0.07	-0.11
	-0.74	-0.38	-0.38	-0.58	-0.26	-0.28	-0.72	-0.64	-0.70
	326	592	842	1083	1348	1596	1826	2078	2317
	-15	3	4	-3	14	15	-5	-2	-11
	-0.30	0.06	0.09	-0.06	0.27	0.30	-0.11	-0.03	-0.22
	-0.48	-0.16	-0.16	-0.34	-0.04	-0.04	-0.48	-0.44	-0.66
	326	590	840	1080	1345	1596	1824	2079	2319
	-32	3	4	-5	12	12	-7	0	-5
	-0.25	0.06	0.08	-0.09	0.24	0.28	-0.13	-0.01	-0.18
	-0.43	-0.26	-0.26	-0.40	-0.10	-0.08	-0.32	-0.42	-0.62
	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00
	0.33	0.59	0.84	1.08	1.35	1.60	1.83	2.08	2.32
	0.31	0.58	0.83	1.07	1.34	1.59	1.81	2.07	2.32

RF Input Power (dBm)

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.26 -0.29
LOGGING ACCURACY (dB)	-0.26 -0.74

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.30 -0.30 x
LOGGING ACCURACY (dB)	-0.04 -0.66

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.28 -0.25
LOGGING ACCURACY (dB)	-0.08 -0.62

Logging Linearity vs Frequency	Error(dB)
TOTAL LOG LINEARITY (dB)	0.30 -0.30

Logging Accuracy vs Frequency	Error(dB)
TOTAL LOGGING ACCURACY (dB)	-0.04 -0.74

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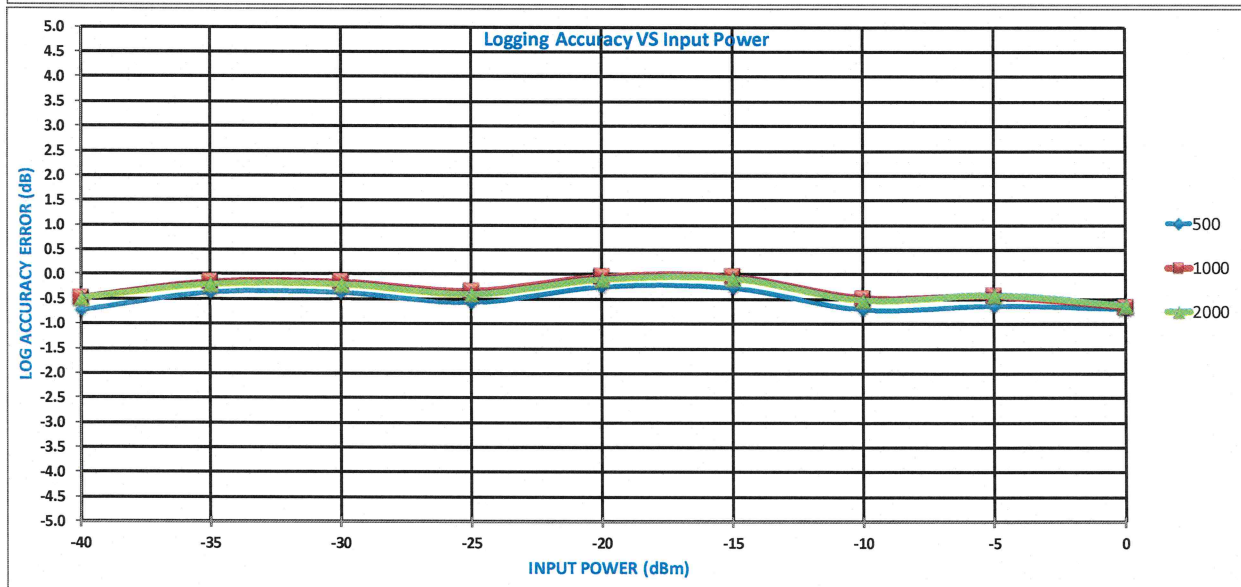
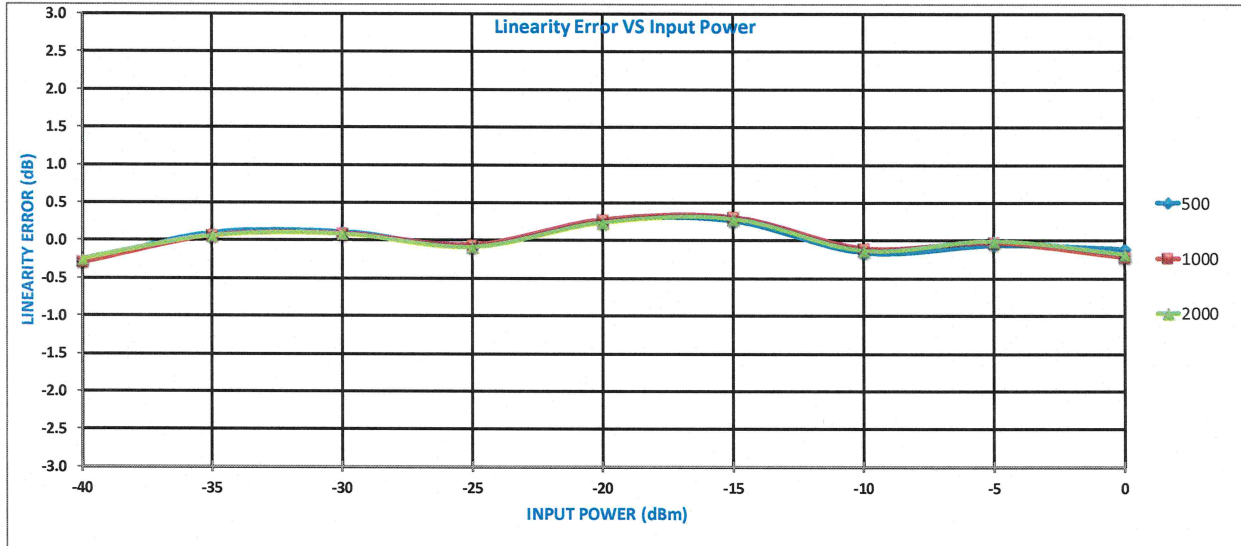


SUMMARY TEST DATA ON HADA-D2001

PL47260/2504

Log Linearity and Log Accuracy @ -40°C

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: Joshua Monley
SERIAL NO: PL47260
TEST TEMP: -40C



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**SUMMARY TEST DATA
ON
HADA-D2001**

PL47260/2504

Log Linearity and Log Accuracy @ +85°C

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: Joshua Monley
TEST DATE: 01/23/2025
SERIAL NO: PL47260
TEST TEMP: +85C

Graph #3

DC Offset= 0.136 V



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INTERCEPT (mV)	2348
SLOPE (mV/dB)	49.9

INTERCEPT (mV)	2358
SLOPE (mV/dB)	49.9

INTERCEPT (mV)	2357
SLOPE (mV/dB)	50

Flatness +/- dB	
Max Video Output Volts	
Min Video Output Volts	

	-40	-35	-30	-25	-20	-15	-10	-5	0
	352	616	850	1088	1362	1696	1826	2091	2374
	1	14	0	-12	2	-1	-23	-7	26
	0.02	0.29	-0.01	-0.24	0.05	-0.02	-0.46	-0.15	0.52
	0.04	0.30	0.00	-0.24	0.04	-0.04	-0.48	-0.18	0.48
	364	626	882	1098	1362	1609	1837	2105	2381
	1	14	0	-13	2	-1	-22	-4	23
	0.03	0.28	0.01	-0.26	0.03	-0.02	-0.45	-0.08	0.46
	0.28	0.52	0.24	-0.04	0.24	0.18	-0.26	0.10	0.62
	383	623	858	1094	1358	1607	1834	2105	2382
	1	14	1	-14	0	-1	-24	-1	25
	0.08	0.28	-0.01	-0.29	0.00	-0.02	-0.48	-0.05	0.49
	0.25	0.46	0.16	-0.12	0.16	0.14	-0.32	0.10	0.64
	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	0.36	0.63	0.86	1.10	1.36	1.61	1.84	2.11	2.38
	0.35	0.62	0.85	1.09	1.35	1.60	1.83	2.09	2.37

RF Input Power (dBm)

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.52 -0.46 x
LOGGING ACCURACY (dB)	0.48 -0.48

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.46 -0.45
LOGGING ACCURACY (dB)	0.62 -0.26

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.49 -0.48
LOGGING ACCURACY (dB)	0.64 -0.32

Logging Linearity vs Frequency	Error(dB)
	MAX MIN
TOTAL LOG LINEARITY (dB)	0.52 -0.48

Logging Accuracy vs Frequency	Error(dB)
	MAX MIN
TOTAL LOGGING ACCURACY (dB)	0.64 -0.48

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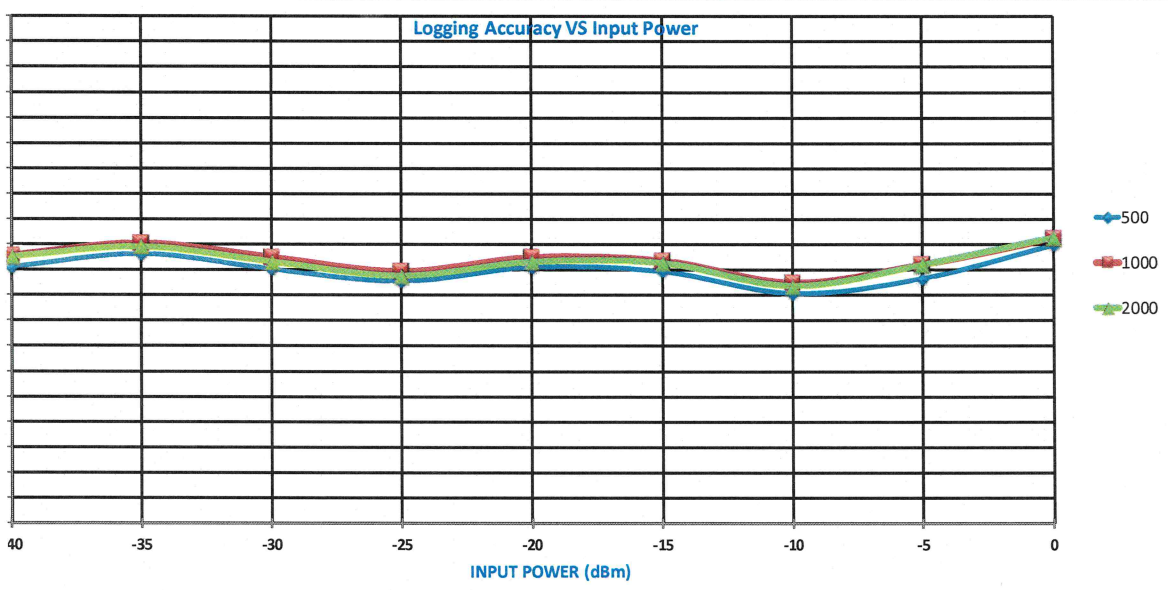
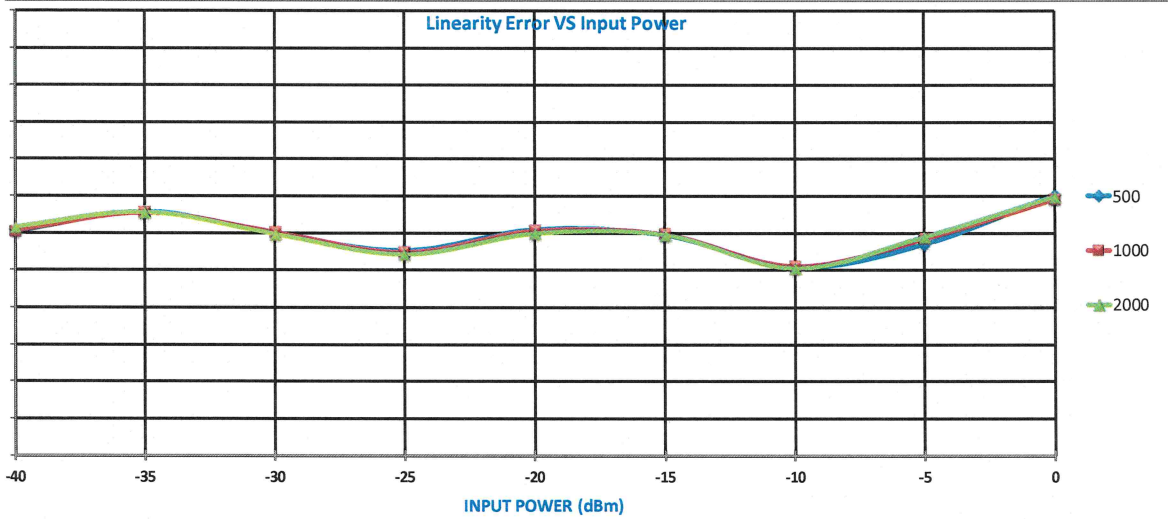


SUMMARY TEST DATA ON HADA-D2001

PL47260/2504

Log Linearity and Log Accuracy @ +85°C

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: Joshua Monley
SERIAL NO: PL47260
TEST TEMP: +85C



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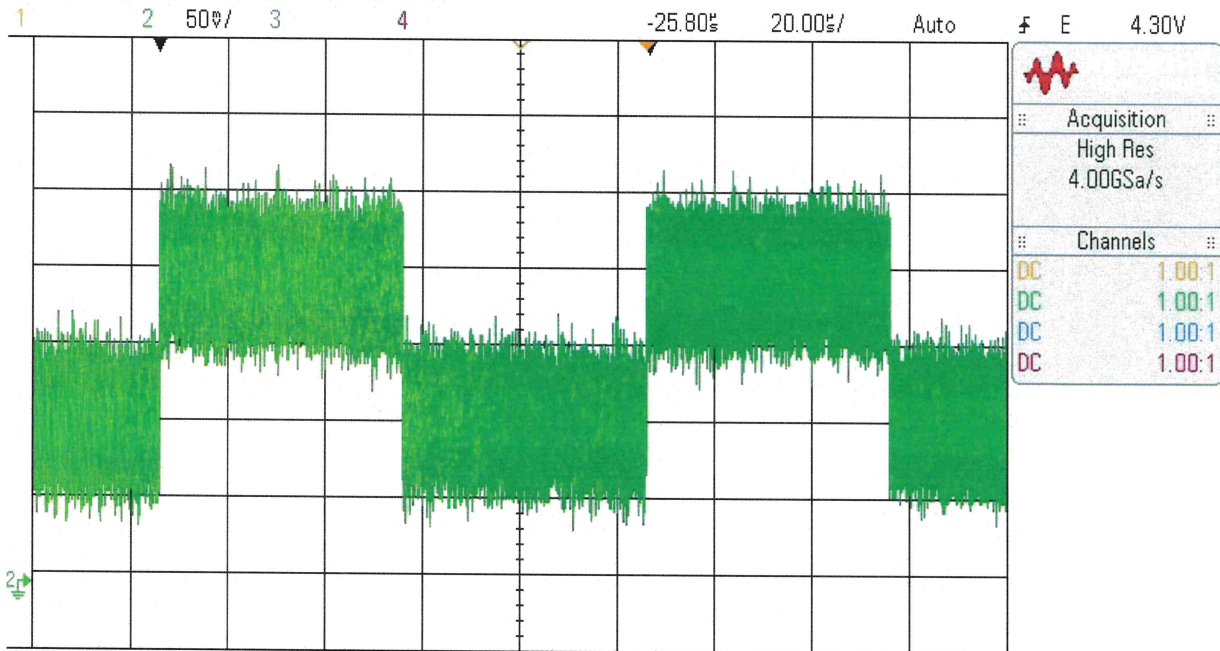


**SUMMARY TEST DATA
ON
HADA-D2001**

PL47260/2504

TSS -44.1 dBm

MSO-X 3054A, MY53400180: Tue Jan 21 14:53:44 2025



Acquire Menu

Acq Mode
High Res

Avgs
1

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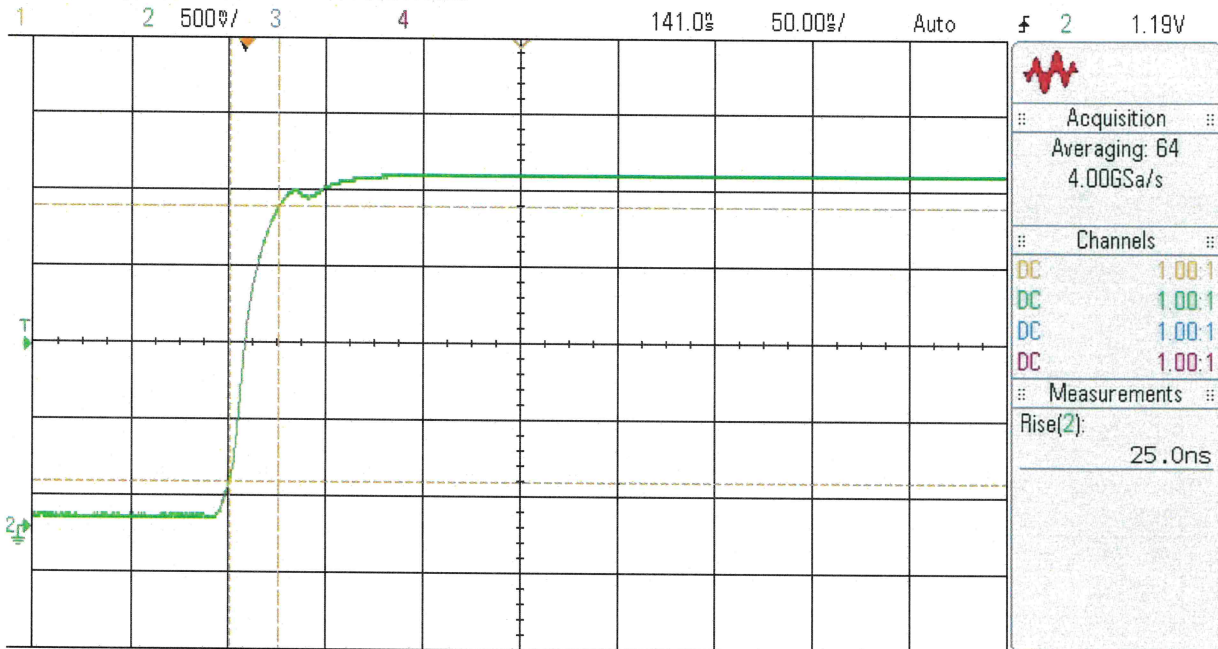


**SUMMARY TEST DATA
ON
HADA-D2001**

PL47260/2504

Rise Time

MSO-X 3054A, MY53400180: Tue Jan 21 14:38:41 2025



Clear Measurements Menu

Clear Meas 1 Rise(2)	Clear Meas 2 <None>	Clear Meas 3 <None>	Clear Meas 4 <None>	Clear All
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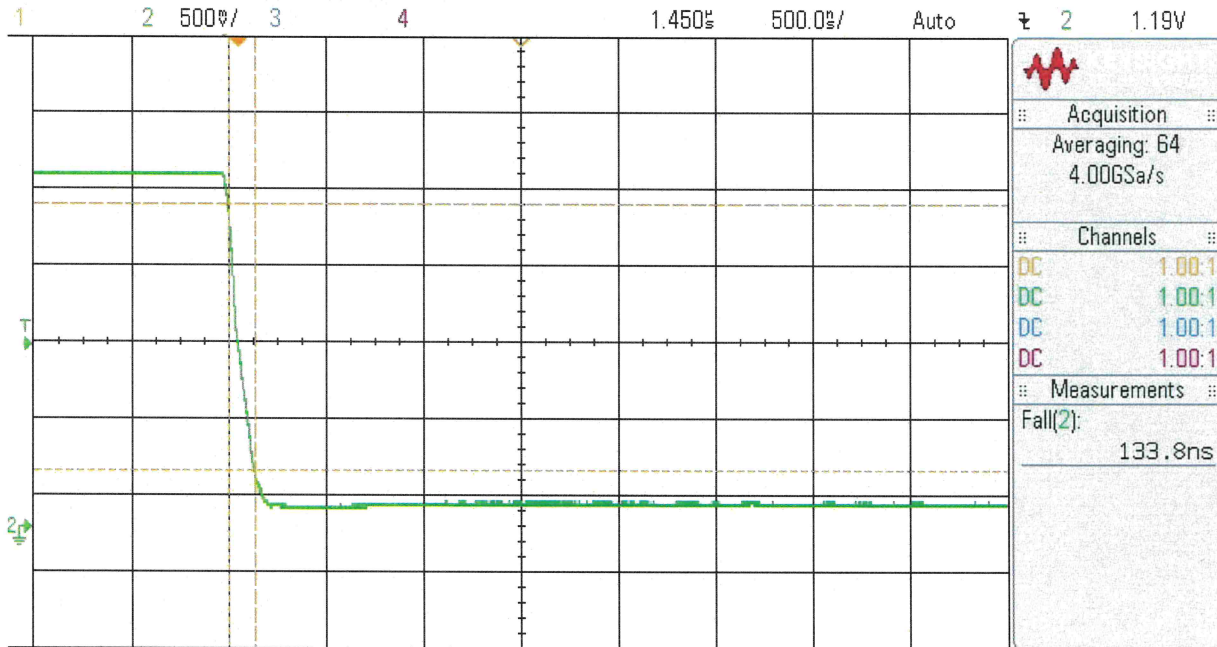


SUMMARY TEST DATA
ON
HADA-D2001

PL47260/2504

Fall Time

MSO-X 3054A, MY53400180: Tue Jan 21 14:33:33 2025



Clear Measurements Menu

Clear Meas 1 Fall(2) Clear Meas 2 <None> Clear Meas 3 <None> Clear Meas 4 <None> Clear All



**SUMMARY TEST DATA
ON
HADA-D2001**

PL47260/2504

VSWR

