



**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL25744/1924

Customer: _____	Tested By: <u>J.Emperador</u>	
SO No: _____	Temperature: <u>+25°C</u>	
Model No: <u>HADA-D2001</u>	Date: <u>06/11/19</u>	
Serial No: <u>PL25744/1924</u>	Drawing No: <u>27620201</u>	Rev: <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5 GHz – 2.0 GHz	<b>0.5 GHz – 2.0 GHz</b> See Plot	PMI QA 1
2	TSS:	-44 dBm Min @ -40°C to +85°	<b>-46.8 dBm</b> See Plot	
3	Frequency Flatness:	±0.75 dB Max	<b>±0.30 dB</b> See Plot	
4	Input / Output Characteristics: (93 Ω)	Y = 2350 + 50X [X: Input (dBm), Y: Output (mv)]	<b>Pass</b>	
5	Logging Accuracy	±1.5 dB Max (@ +25°C, 1.0 GHz)* [-40 dBm ≤ INPUT ≤ 0 dBm] ±2.2 dB Max (Note)	<b>0.40 dB</b>  <b>-1.68 dB</b> See Plot	
6	Log Linearity:	±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C	<b>-0.32 dB</b> <b>0.45 dB</b> See Plot	
7	Maximum Input Power (CW):	+23 dBm	<b>Pass</b>	
8	Duty Cycle:	100%	<b>Pass</b>	
9	Rise Time:	30 ns Max (10% to 90%)	<b>20.1 ns</b> See Plot	
10	Fall Time:	500 ns Max (@ Pulse width 100usec input) (90% to 10%)	<b>139 ns</b> See Plot	
11	DC Offset: (Input 50 Ω terminated):	+95 mV +55/-100 mV (@ -40°C to +85°C)	<b>+101 mV</b> <b>+129 mV</b>	
12	Input VSWR:	2.5:1 Max @ +23 dBm	<b>1.24:1</b> See Plot	PMI QA 1

4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597 Email: <a href="mailto:sales@pmi-rf.com">sales@pmi-rf.com</a>
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13	Propagation Delay:	60 ns Max	<b>40 ns See Plot</b>	PMI QA 1
14	Power Supply:	+12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max	<b>85 mA 41 mA</b>	
15	Warm Up Time:	2 Minutes Max	<b>2 Minutes</b>	PMI QA 1

\*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:

PMI  
QA 1

Date:

6/18/19

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# SUMMARY TEST DATA ON HADA-D2001

PL25744/1924

<p>LOG TRANSFER WITH FREQUENCY          MODEL: HADA-D2001          TESTED BY: J.Emperador          TEST DATE: 06/10/19          SERIAL NO: PL25744          TEST TEMP: +25C</p>			<p><b>Graph #1</b></p> <p>DC Offset= 0.101 V</p>										<p>PLANAR MONOLITHICS INDUSTRIES          4921 Robert J. Mathews Parkway Suit 1          El Dorado Hills, CA 95762          TEL: 916-542-1401 FAX: 916-265-2597          EMAIL: SALES@PMI-RF.COM</p>																																																																																																																																																																																																																												
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5	7	-2	-16	-6	10	-1	14	-2																																																																																																																																																																																																																																	
0.10	0.15	-0.04	-0.32	-0.11	0.19	-0.22	0.29	-0.04																																																																																																																																																																																																																																	
-0.26	-0.18	-0.34	-0.58	-0.34	0.00	-0.38	0.16	-0.14																																																																																																																																																																																																																																	
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10																																																																																																																																																																																																																																	
0.36	0.61	0.86	1.09	1.36	1.62	1.85	2.11	2.34																																																																																																																																																																																																																																	
0.34	0.59	0.83	1.07	1.33	1.60	1.83	2.09	2.33																																																																																																																																																																																																																																	
RF Input Power (dBm)																																																																																																																																																																																																																																									
Measured Value (mV)	Error(dB)																																																																																																																																																																																																																																								
Error (mV)	MAX MIN																																																																																																																																																																																																																																								
LINEARITY ERROR (dB)	0.27 -0.24																																																																																																																																																																																																																																								
LOGGING ACCURACY (dB)	-0.04 -0.54																																																																																																																																																																																																																																								
Measured Value (mV)	Error(dB)																																																																																																																																																																																																																																								
Error (mV)	MAX MIN																																																																																																																																																																																																																																								
LINEARITY ERROR (dB)	0.31 -0.26																																																																																																																																																																																																																																								
LOGGING ACCURACY (dB)	0.40 -0.14																																																																																																																																																																																																																																								
Measured Value (mV)	Error(dB)																																																																																																																																																																																																																																								
Error (mV)	MAX MIN																																																																																																																																																																																																																																								
LINEARITY ERROR (dB)	0.29 -0.32																																																																																																																																																																																																																																								
LOGGING ACCURACY (dB)	0.16 -0.58																																																																																																																																																																																																																																								
Logging Linearity vs Frequency		Error(dB)																																																																																																																																																																																																																																							
	MAX	MIN																																																																																																																																																																																																																																							
TOTAL LOG LINEARITY (dB)	0.31	-0.32																																																																																																																																																																																																																																							
Logging Accuracy vs Frequency		Error(dB)																																																																																																																																																																																																																																							
	MAX	MIN																																																																																																																																																																																																																																							
TOTAL LOGGING ACCURACY (dB)	0.40	-0.58																																																																																																																																																																																																																																							

4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597  
 Email: sales@pmi-rf.com

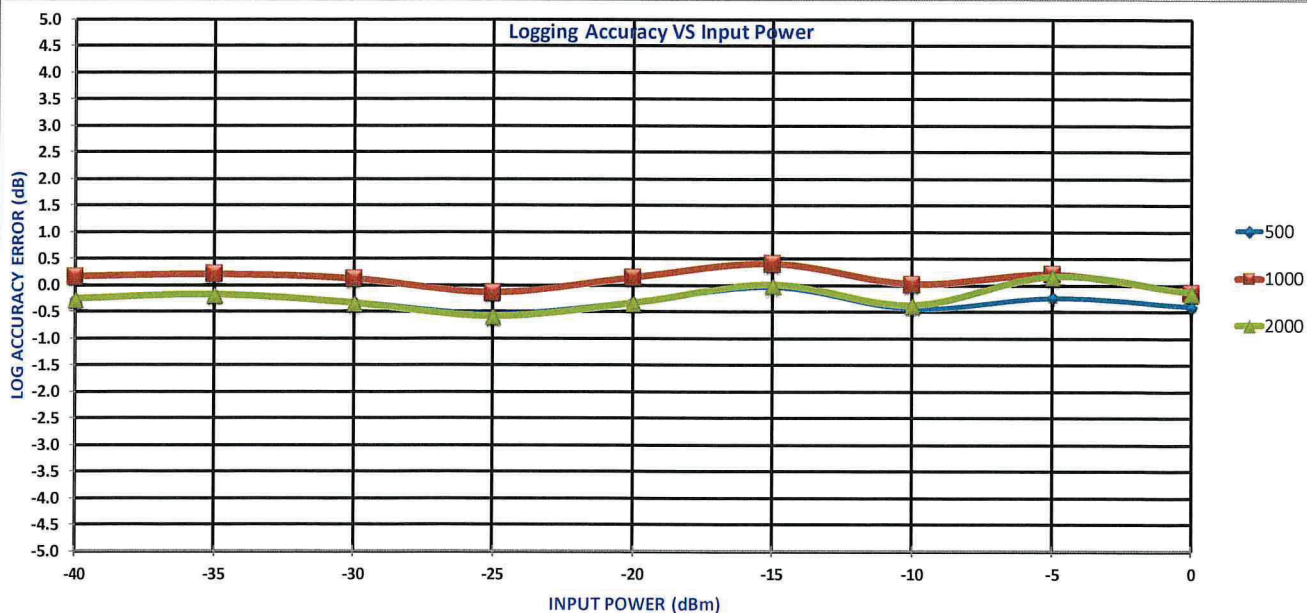
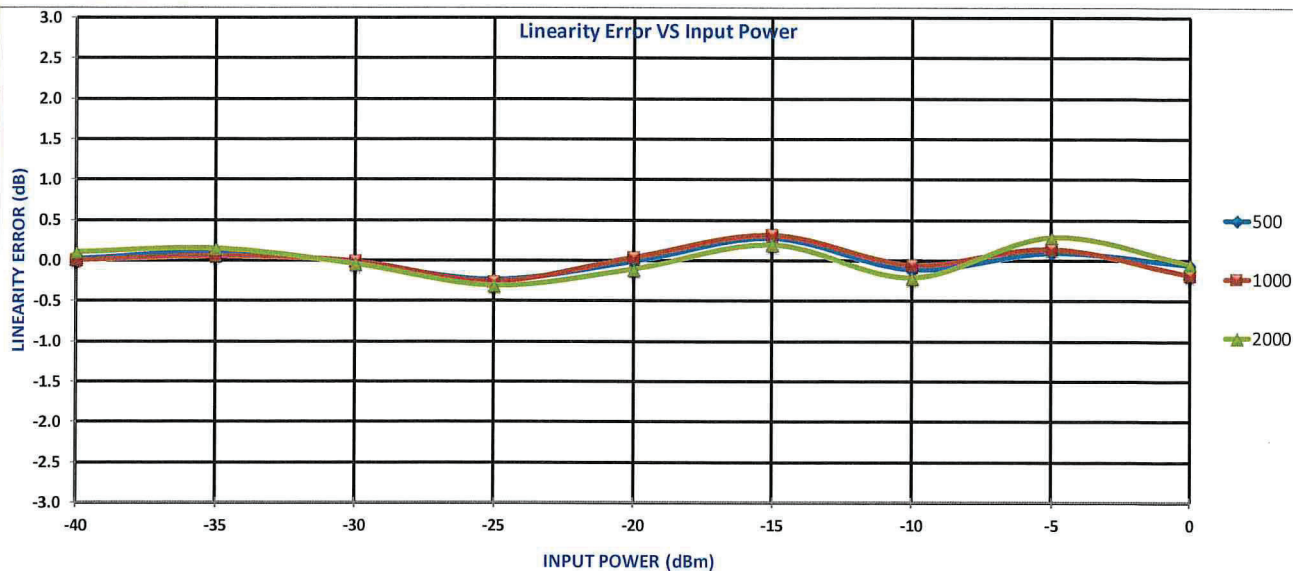




# SUMMARY TEST DATA ON HADA-D2001

PL25744/1924

LOG TRANSFER WITH FREQUENCY  
MODEL: HADA-D2001  
TESTED BY: J.Emperador  
SERIAL NO: PL25744  
TEST TEMP: +25C



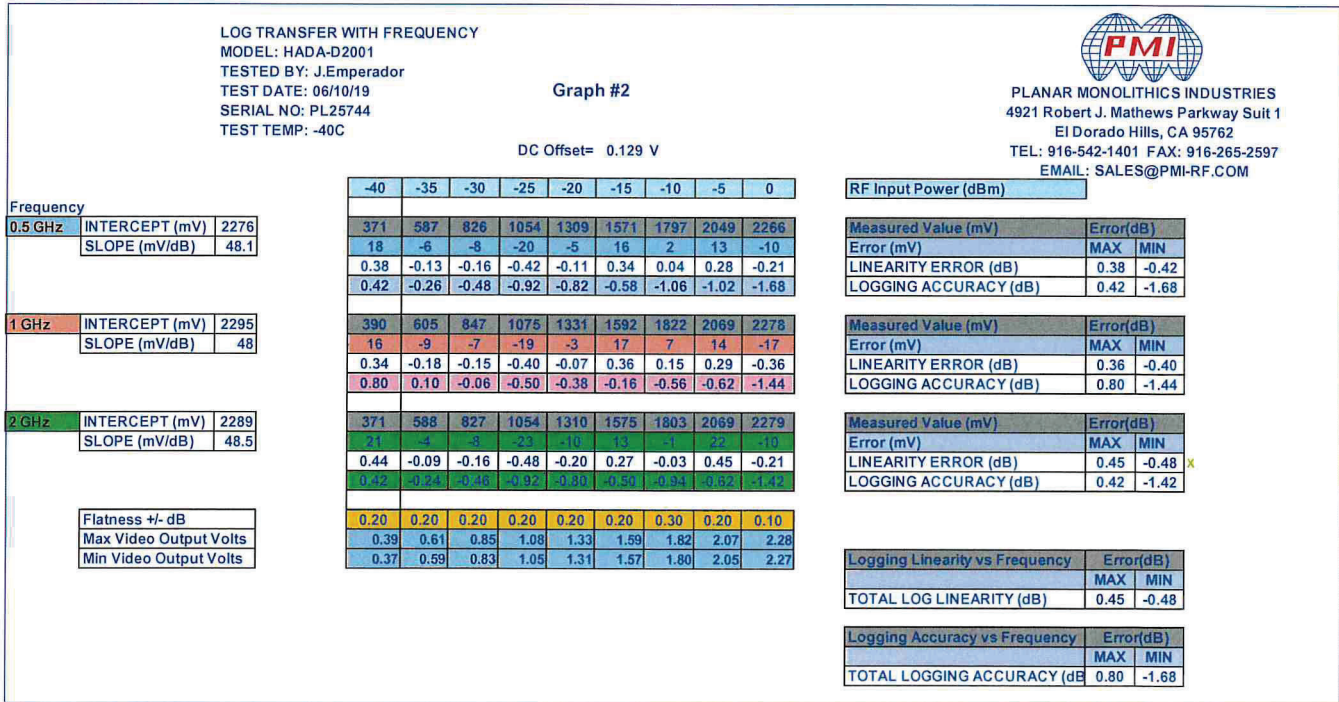
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax:  
(916)265-2597  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)





## SUMMARY TEST DATA ON HADA-D2001

PL25744/1924

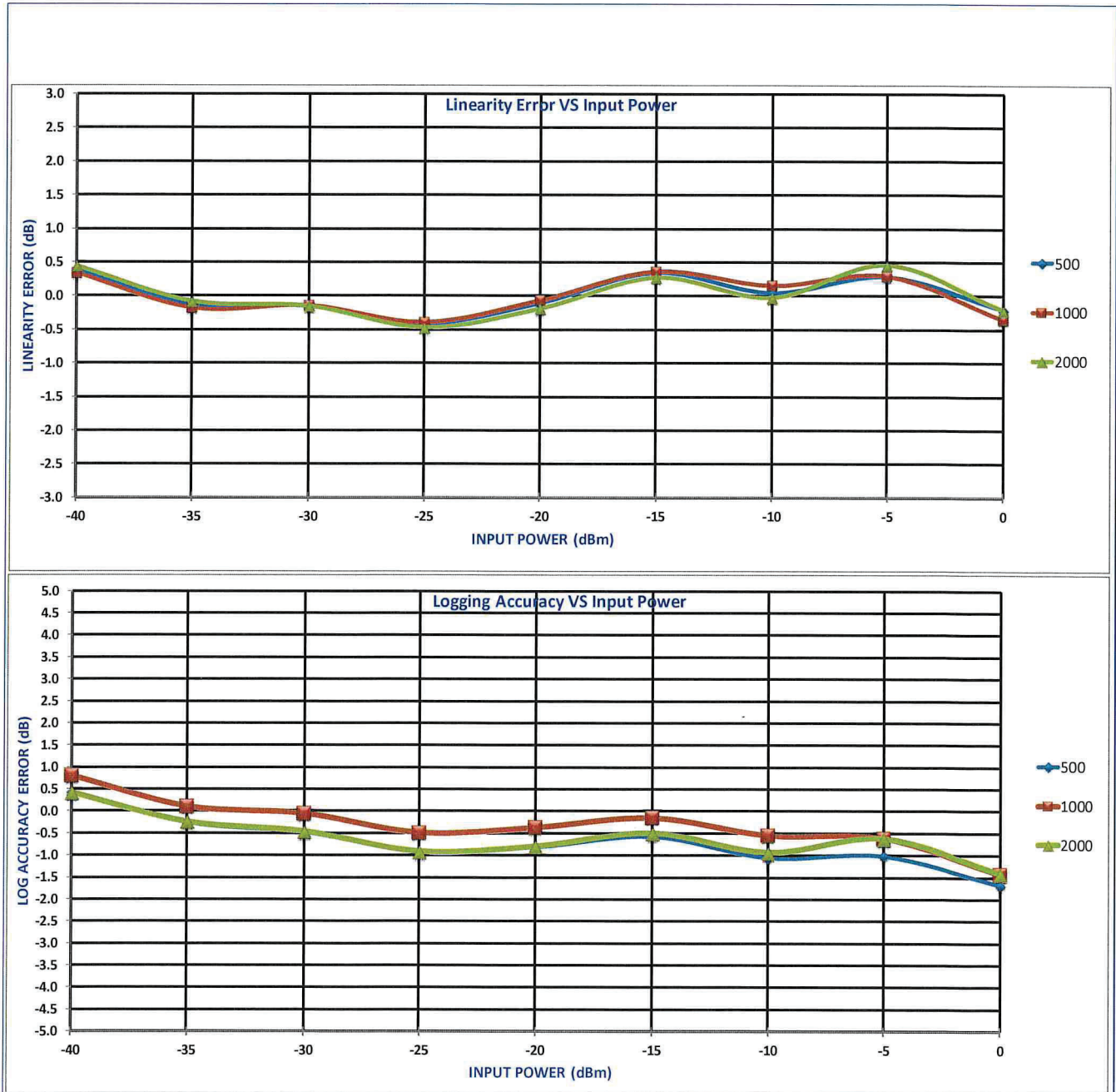


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 Email: sales@pmi-rf.com



# SUMMARY TEST DATA ON HADA-D2001

PL25744/1924



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## SUMMARY TEST DATA ON HADA-D2001

PL25744/1924

LOG TRANSFER WITH FREQUENCY  
 MODEL: HADA-D2001  
 TESTED BY: J.Emperador  
 TEST DATE: 06/10/19  
 SERIAL NO: PL25744  
 TEST TEMP: +85C

Graph #3

DC Offset= 0.125 V

PLANAR MONOLITHICS INDUSTRIES  
 4921 Robert J. Mathews Parkway Suit 1  
 El Dorado Hills, CA 95762  
 TEL: 916-542-1401 FAX: 916-265-2597  
 EMAIL: SALES@PMI-RF.COM

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
0.5 GHz	2331	50.5
1 GHz	2352	50.6
2 GHz	2344	51

	-40	-35	-30	-25	-20	-15	-10	-5	0
0.5 GHz	324	570	806	1050	1314	1579	1820	2079	2343
1 GHz	341	590	826	1068	1335	1600	1842	2104	2357
2 GHz	322	569	802	1047	1311	1579	1823	2101	2357

RF Input Power (dBm)	Measured Value (mV)	Error (mV)	Error (dB)
0.5 GHz	0.28	0.15	0.28
1 GHz	0.16	-0.17	0.16
2 GHz	0.38	0.22	0.38

Logging Linearity vs Frequency	Error (dB)
TOTAL LOG LINEARITY (dB)	0.38 -0.42

Logging Accuracy vs Frequency	Error (dB)
TOTAL LOGGING ACCURACY (dB)	0.14 -1.06

Flatness +/- dB
0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.10
0.34 0.59 0.83 1.07 1.34 1.60 1.84 2.10 2.36
0.32 0.57 0.80 1.05 1.31 1.58 1.82 2.08 2.34

Max Video Output Volts
2.36

Min Video Output Volts
2.34

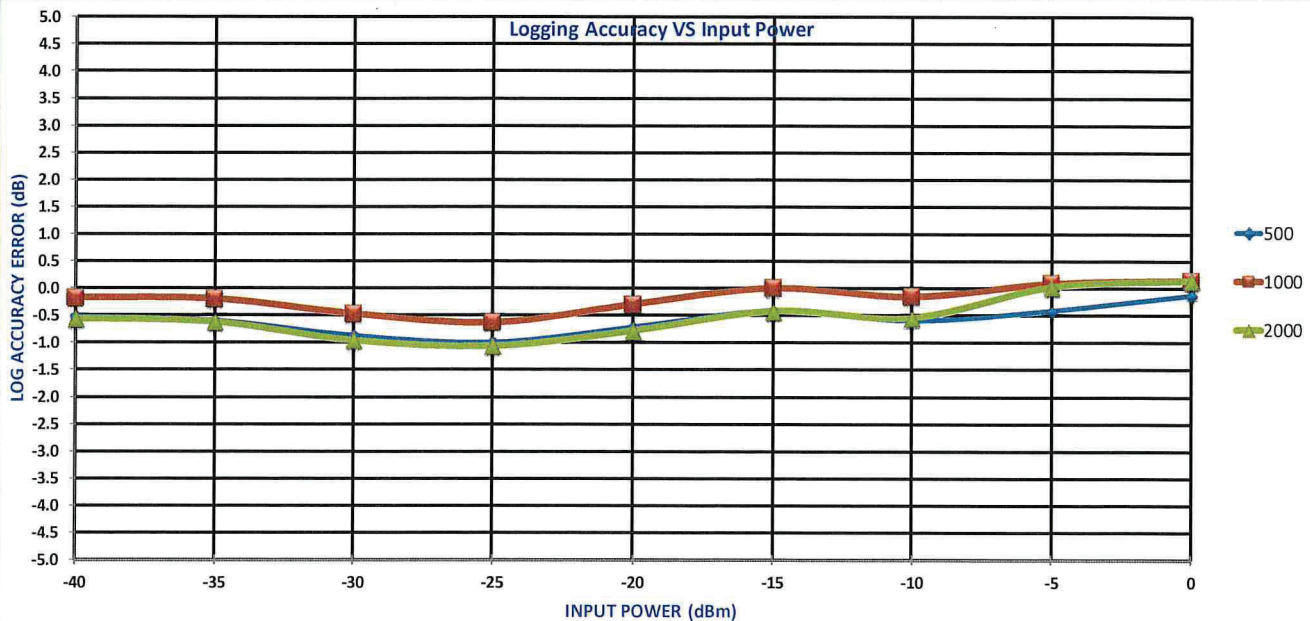
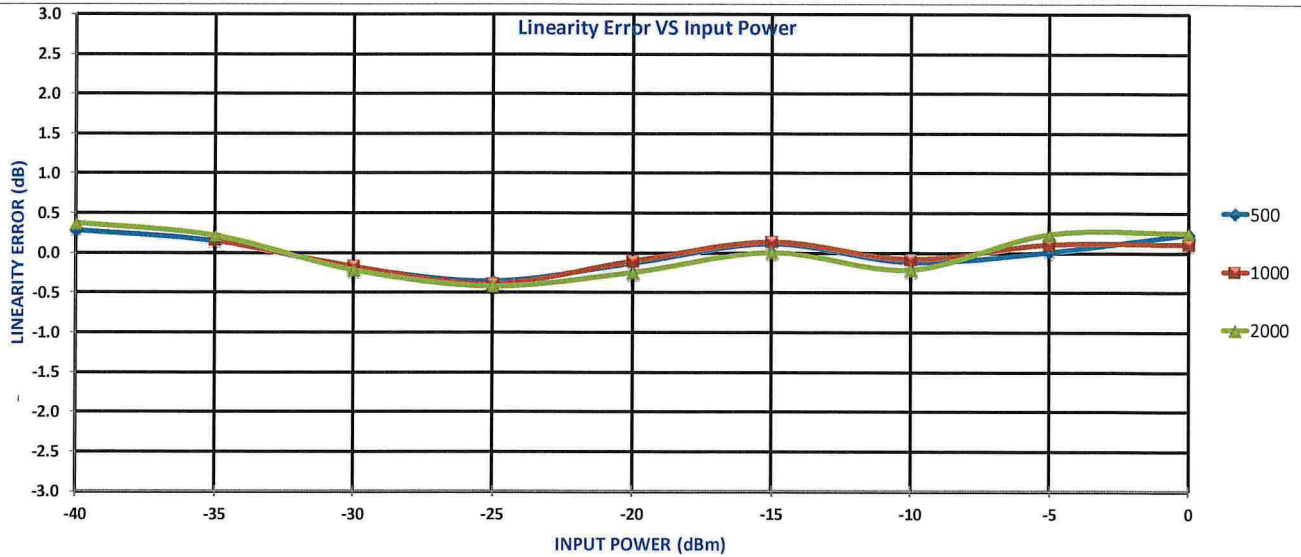




# SUMMARY TEST DATA ON HADA-D2001

PL25744/1924

LOG TRANSFER WITH FREQUENCY  
MODEL: HADA-D2001  
TESTED BY: J.Emperador  
SERIAL NO: PL25744  
TEST TEMP: +85C

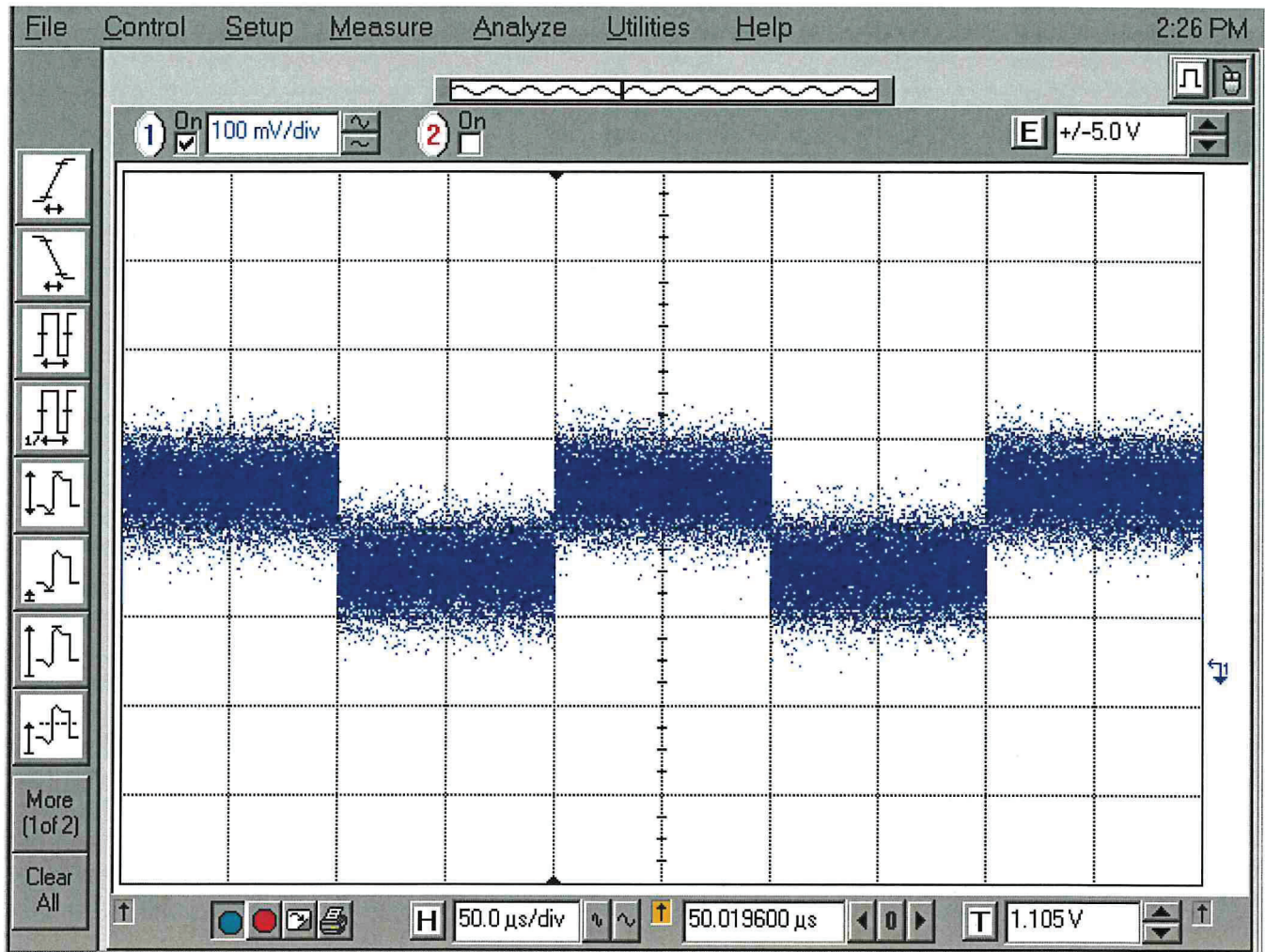


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**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL25744/1924



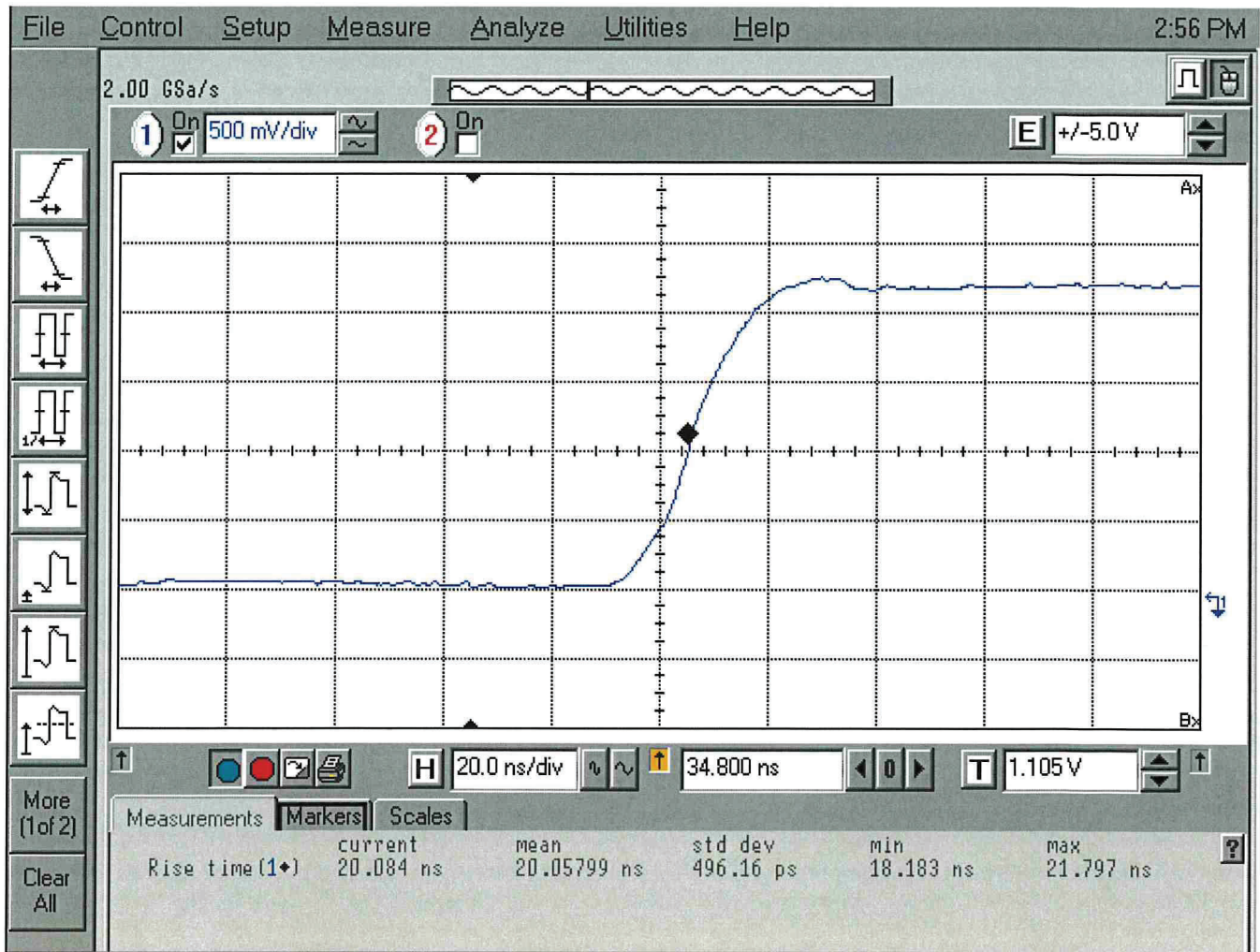
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**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL25744/1924



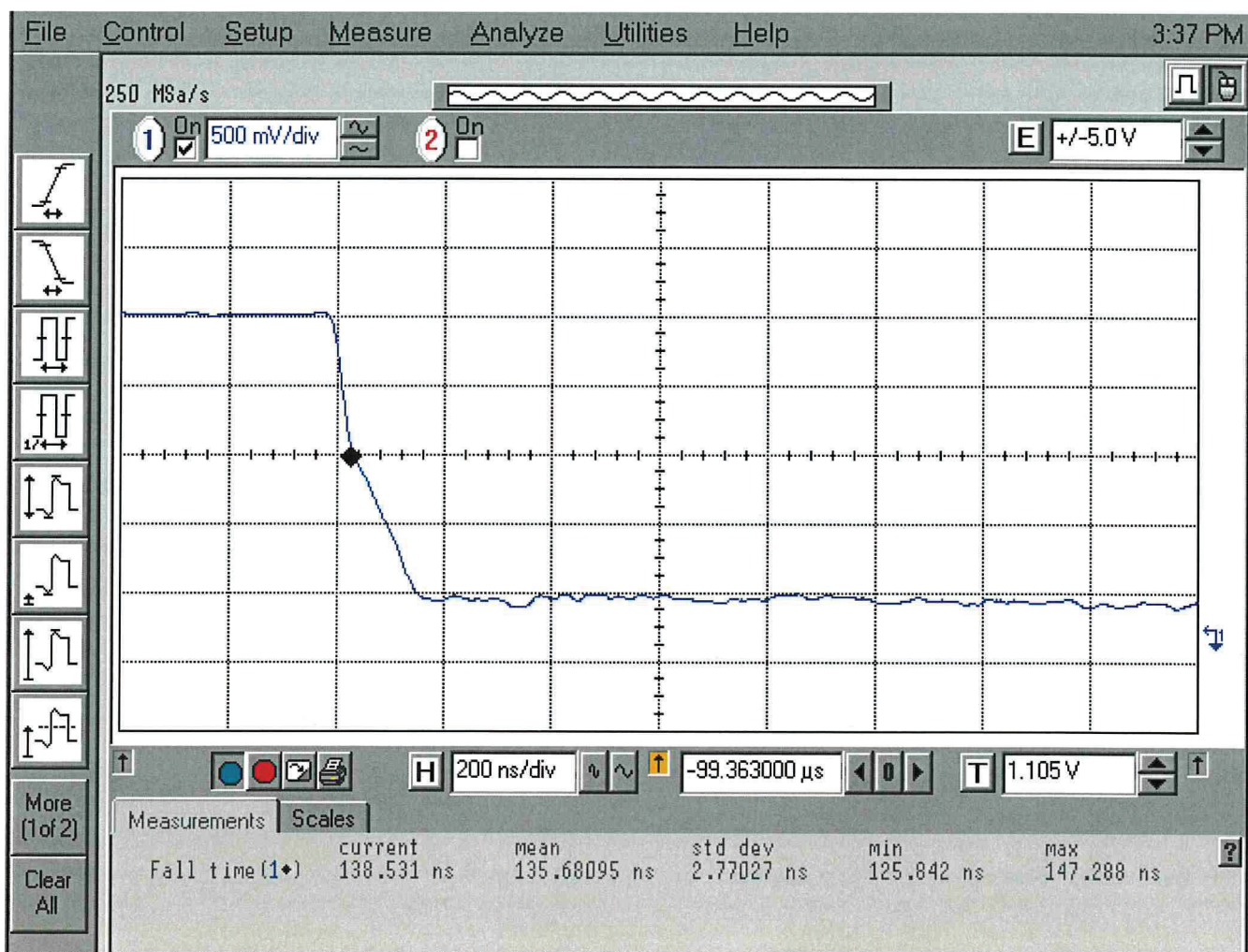
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**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL25744/1924



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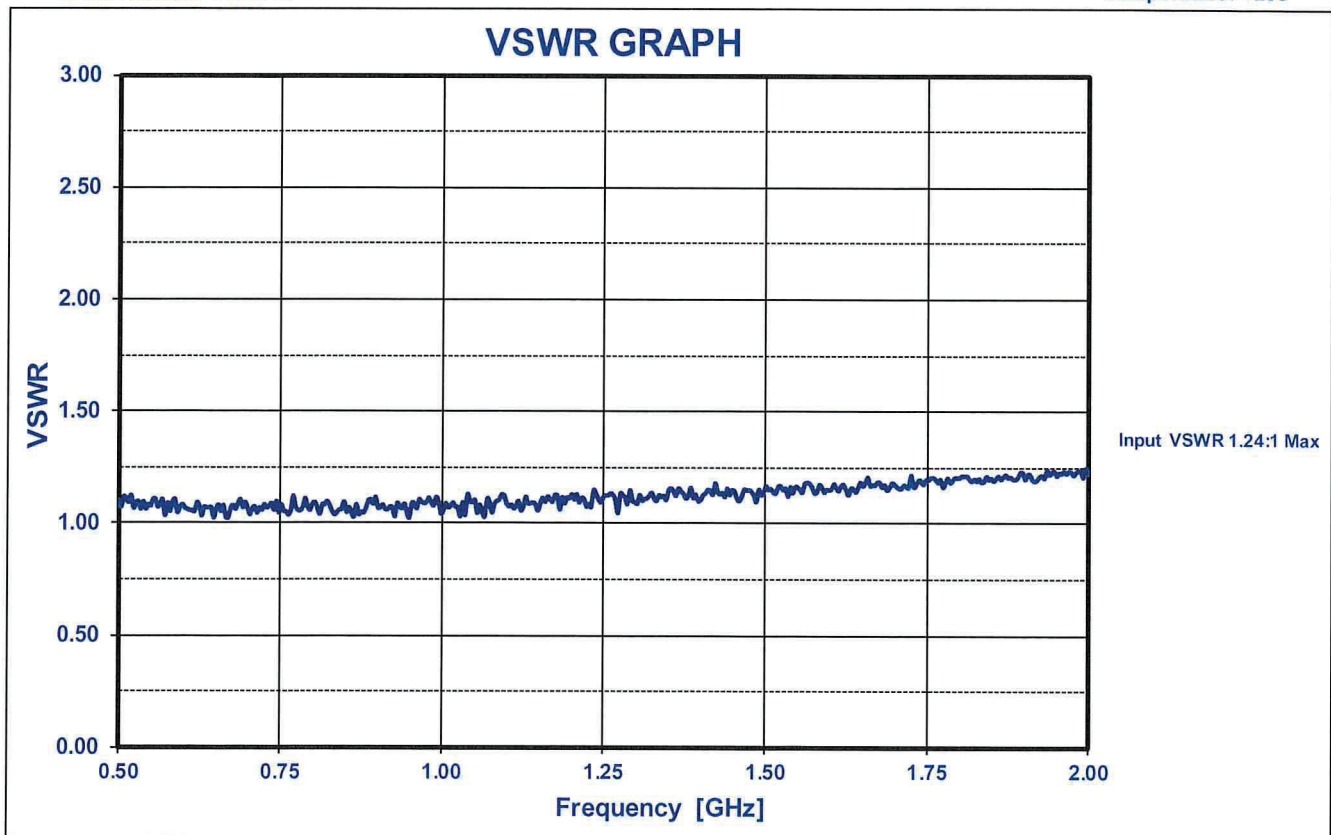


**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL25744/1924

Model Number: HADA-D2001  
Serial Number: PL25744

Temperature: +25C



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