



**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL38219/2245

Customer: _____	Tested By: <u>J. Monley</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>HADA-D2001</u>	Date: <u>10/28/22</u>
Serial No: <u>PL38219/2245</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	0.5 GHz – 2.0 GHz See Plot	PMI QA3
2	TSS:	-44 dBm Min @ -40°C to +85°	-45 dBm See Plot	
3	Frequency Flatness:	±0.75 dB Max	±0.20 dB See Plot	
4	Input / Output Characteristics: (93 Ω)	Y = 2350 + 50X [X: Input (dBm), Y: Output (mv)]	Pass	
5	Logging Accuracy	±1.5 dB Max (@ +25°C, 1.0 GHz)* [-40 dBm ≤ INPUT ≤ 0 dBm] ±2.2 dB Max (Note)	+0.26 dB  -1.56 dB See Plot	
6	Log Linearity:	±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C	-0.28 dB -0.42 dB See Plot	
7	Maximum Input Power (CW):	+23 dBm	Pass	
8	Duty Cycle:	100%	Pass	
9	Rise Time:	30 ns Max (10% to 90%)	20 nS See Plot	
10	Fall Time:	500 ns Max (@ Pulse width 100usec input) (90% to 10%)	166 nS See Plot	
11	DC Offset: (Input 50 Ω terminated):	+95 mV +55/-100 mV (@ -40°C to +85°C)	+ 94 mV + 31 mV	
12	Input VSWR:	2.5:1 Max @ +23 dBm	1.18:1 See Plot	

4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597  
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13	Propagation Delay:	60 ns Max	<b>40 nS</b>	<b>PMI QA3</b>
14	Power Supply:	+12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max	<b>90 mA 40 mA</b>	7
15	Warm Up Time:	2 Minutes Max	<b>2 Minutes</b>	

\*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. Waters*

Date:

*11-14-22*



## SUMMARY TEST DATA ON HADA-D2001

PL38219/2245

### Log Linearity and Log Accuracy @ +25°C

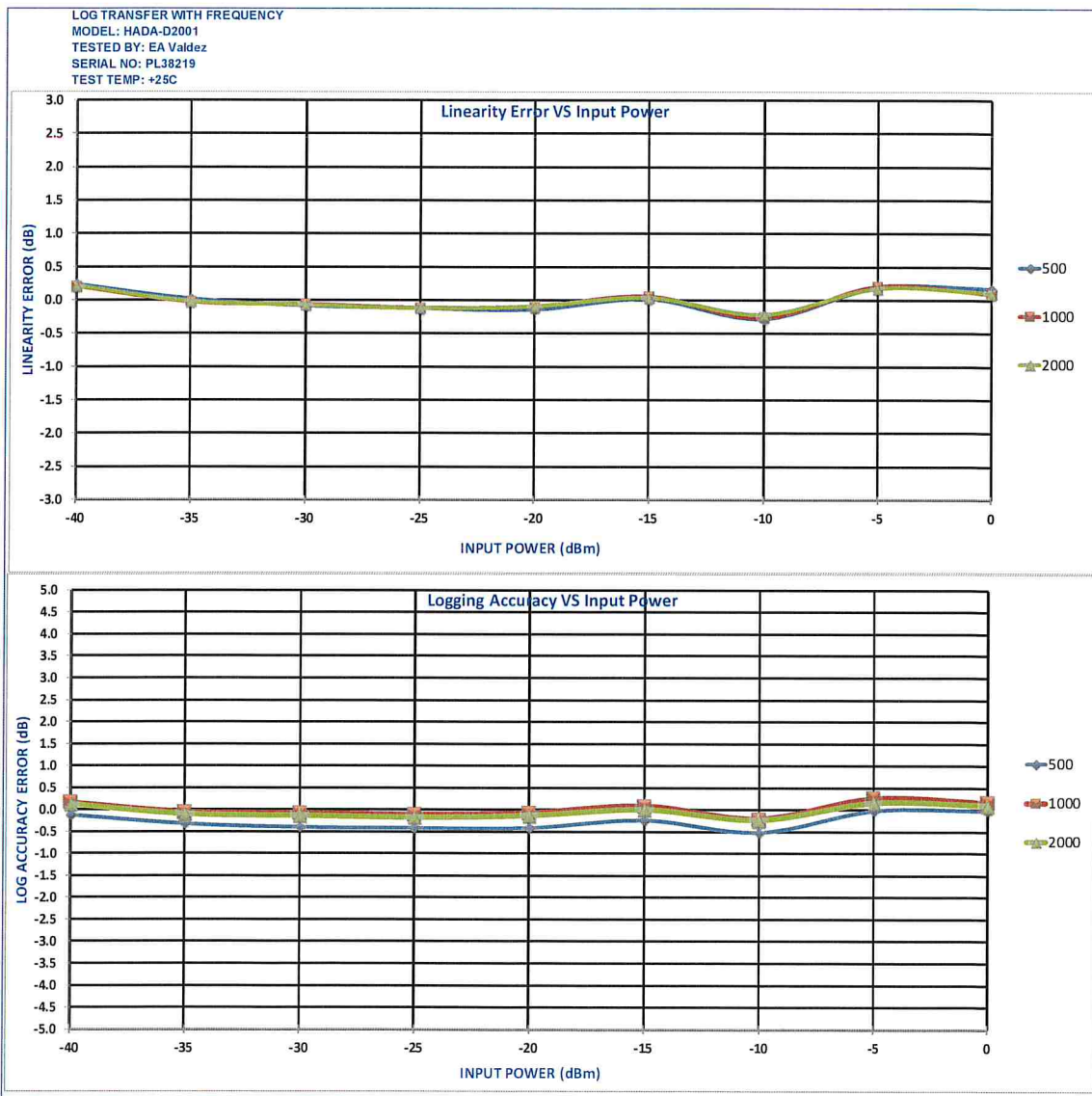
LOG TRANSFER WITH FREQUENCY		DC Offset= 0.094 V										RF Input Power (dBm)	
MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/07/22 SERIAL NO: PL38219 TEST TEMP: +25C												 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM	
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0			
<b>0.5 GHz</b>	INTERCEPT (mV)	2340									Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	50.2									Error (mV)	MAX MIN	
											LINEARITY ERROR (dB)	0.24 -0.28	
											LOGGING ACCURACY (dB)	-0.02 -0.52	
<b>1 GHz</b>	INTERCEPT (mV)	2353									Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	50.1									Error (mV)	MAX MIN	
											LINEARITY ERROR (dB)	0.21 -0.26	
											LOGGING ACCURACY (dB)	0.26 -0.22	
<b>2 GHz</b>	INTERCEPT (mV)	2350									Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	50.1									Error (mV)	MAX MIN	
											LINEARITY ERROR (dB)	0.21 -0.22	
											LOGGING ACCURACY (dB)	0.16 -0.24	
Flatness +/- dB													
Max Video Output Volts													
Min Video Output Volts													
		344	584	830	1079	1329	1588	1824	2099	2349			
		12	1	-4	-6	-7	1	-14	10	9			
		0.24	0.02	-0.08	-0.12	-0.14	0.01	-0.28	0.19	0.17			
		-0.12	-0.32	-0.40	-0.42	-0.42	-0.24	-0.52	-0.02	-0.02			
		358	597	846	1094	1346	1604	1839	2113	2358			
		10	-1	-3	-6	-5	3	-13	10	5			
		0.21	-0.03	-0.06	-0.12	-0.09	0.05	-0.26	0.20	0.09			
		0.16	-0.06	-0.08	-0.12	-0.08	0.08	-0.22	0.26	0.16			
		356	595	843	1091	1343	1600	1838	2108	2355			
		11	-1	-4	-6	-5	2	-11	9	5			
		0.21	-0.02	-0.07	-0.12	-0.09	0.04	-0.22	0.17	0.10			
		-0.12	-0.10	-0.14	-0.18	-0.14	0.00	-0.24	0.16	0.10			
		0.10	0.10	0.20	0.10	0.20	0.20	0.10	0.10	0.10			
		0.36	0.60	0.85	1.08	1.35	1.60	1.84	2.11	2.36			
		0.34	0.56	0.83	1.06	1.33	1.59	1.82	2.10	2.35			
												Logging Linearity vs Frequency	
												Error(dB)	
												MAX	MIN
												TOTAL LOG LINEARITY (dB)	0.24 -0.28
												Logging Accuracy vs Frequency	
												Error(dB)	
												MAX	MIN
												TOTAL LOGGING ACCURACY (dB)	0.26 -0.52



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## Log Linearity and Log Accuracy @ +25°C



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**Log Linearity and Log Accuracy @ -40°C**

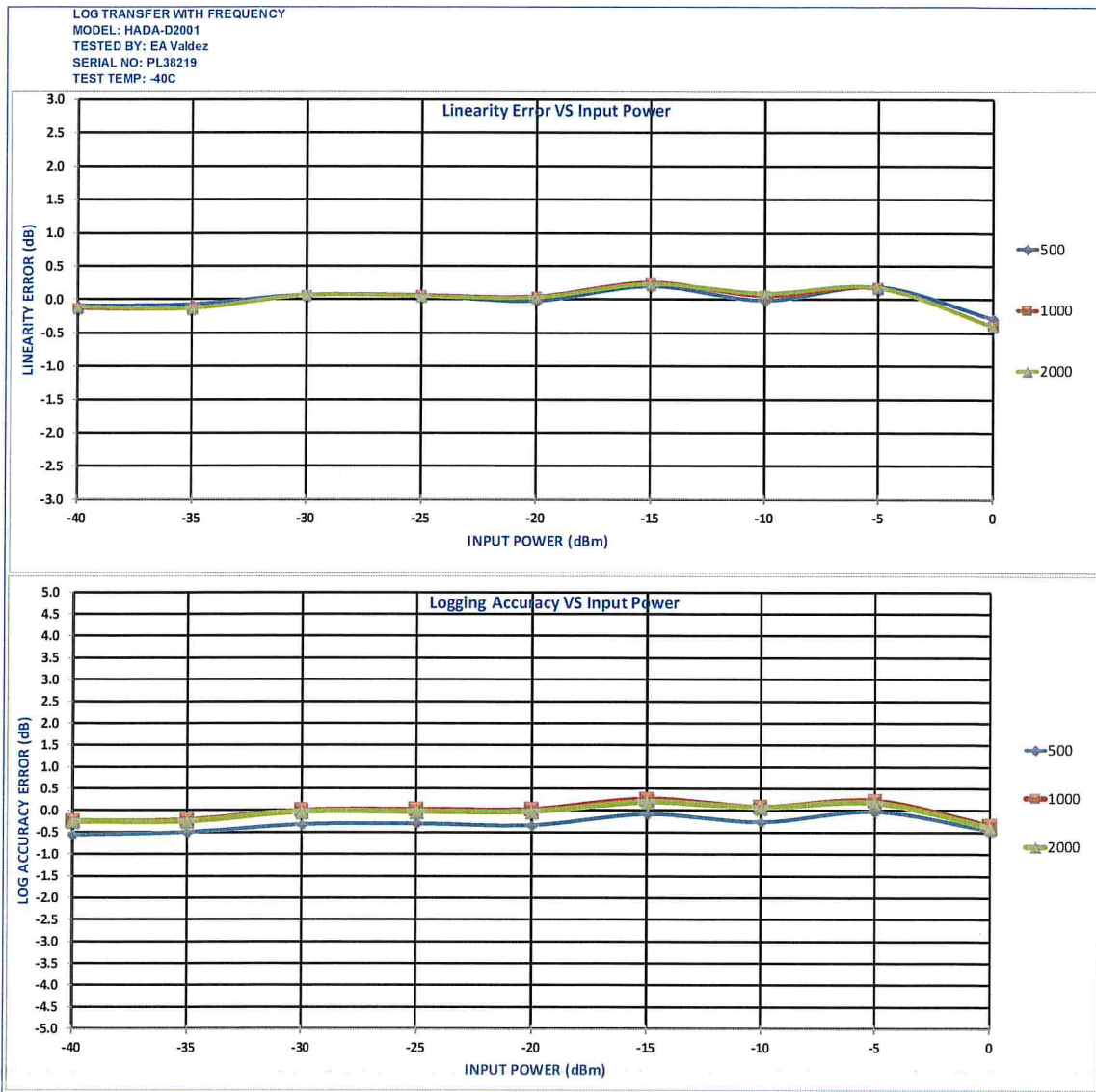
LOG TRANSFER WITH FREQUENCY		DC Offset= 0.029 V										RF Input Power (dBm)	
MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/07/22 SERIAL NO: PL38219 TEST TEMP: -40C												PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM	
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	Measured Value (mV)	Error(dB)	
0.5 GHz	INTERCEPT (mV)	322	575	834	1085	1333	1596	1837	2099	2327	MAX	MIN	
	SLOPE (mV/dB)	-5	-4	3	3	-1	10	-1	9	-14	LINEARITY ERROR (dB)	0.20	-0.29
		-0.10	-0.07	0.07	0.05	-0.02	0.20	-0.02	0.19	-0.29	LOGGING ACCURACY (dB)	-0.02	-0.56
		-0.66	-0.50	-0.32	-0.30	-0.34	-0.08	-0.26	-0.02	-0.46			
1 GHz	INTERCEPT (mV)	338	589	850	1101	1351	1613	1854	2114	2333	MAX	MIN	
	SLOPE (mV/dB)	-6	-7	3	3	2	13	3	9	-20	LINEARITY ERROR (dB)	0.26	-0.40
		-0.13	-0.13	0.07	0.06	0.04	0.26	0.06	0.18	-0.40	LOGGING ACCURACY (dB)	0.26	-0.34
		-0.24	-0.22	0.00	0.02	0.02	0.26	0.08	0.22	-0.34			
2 GHz	INTERCEPT (mV)	338	588	849	1099	1349	1610	1854	2109	2331	MAX	MIN	
	SLOPE (mV/dB)	-6	-7	3	2	-2	12	5	9	-20	LINEARITY ERROR (dB)	0.23	-0.40
		-0.11	-0.13	0.07	0.05	0.03	0.23	0.09	0.17	-0.40	LOGGING ACCURACY (dB)	0.20	-0.38
		-0.24	-0.24	-0.02	-0.02	-0.02	0.20	0.06	0.18	-0.38			
Flatness +/- dB		0.20	0.10	0.20	0.20	0.20	0.20	0.20	0.10	0.10			
Max Video Output Volts		0.34	0.59	0.85	1.10	1.35	1.61	1.85	2.11	2.33			
Min Video Output Volts		0.32	0.58	0.83	1.09	1.33	1.60	1.84	2.10	2.33			
												Logging Linearity vs Frequency Error(dB) TOTAL LOG LINEARITY (dB) MAX MIN 0.26 -0.40	
												Logging Accuracy vs Frequency Error(dB) TOTAL LOGGING ACCURACY (dB) MAX MIN 0.26 -0.56	



# SUMMARY TEST DATA ON HADA-D2001

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## Log Linearity and Log Accuracy @ -40°C



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ON  
HADA-D2001**

PL38219/2245

**Log Linearity and Log Accuracy @ +85°C**

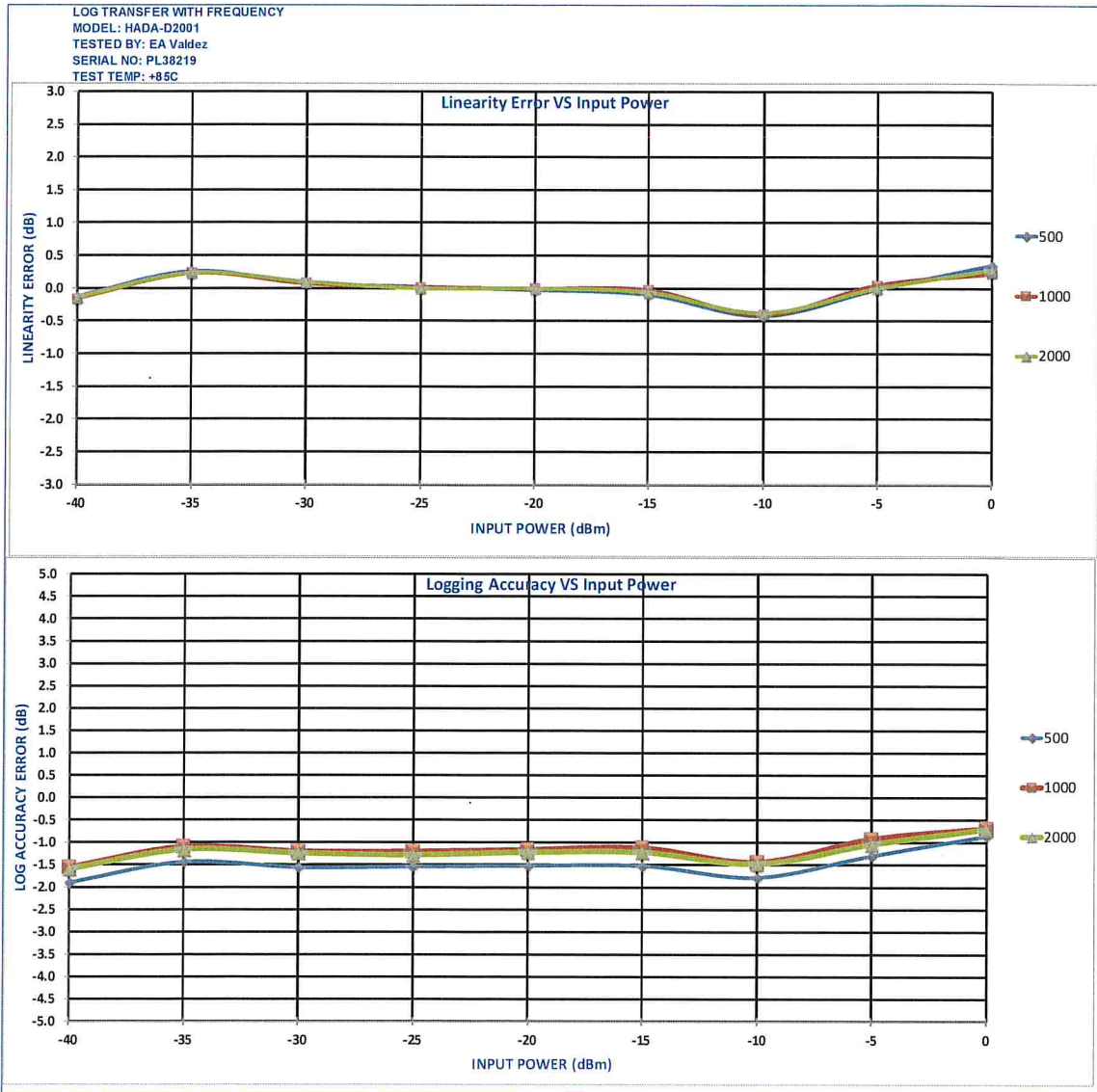
<p><b>LOG TRANSFER WITH FREQUENCY</b>          MODEL: HADA-D2001          TESTED BY: EA Vaklez          TEST DATE: 11/07/22          SERIAL NO: PL38219          TEST TEMP: +85C</p>			DC Offset= 0.031 V								<p>PLANAR MONOLITHICS INDUSTRIES          4921 Robert J. Mathews Parkway Suit 1          El Dorado Hills, CA 95762          TEL: 916-542-1401 FAX: 916-265-2597          EMAIL: SALES@PMI-RF.COM</p>																																																								
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0.27	0.55	0.79	1.04	1.29	1.54	1.78	2.05	2.32																																																											
0.26	0.53	0.77	1.02	1.27	1.52	1.76	2.04	2.31																																																											
Logging Linearity vs Frequency	Error(dB)																																																																		
TOTAL LOG LINEARITY (dB)	MAX	MIN																																																																	
	0.35	-0.42																																																																	
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Logging Accuracy vs Frequency</th> <th colspan="2">Error(dB)</th> </tr> <tr> <td>TOTAL LOGGING ACCURACY (dB)</td> <td>MAX</td> <td>MIN</td> </tr> <tr> <td></td> <td>-0.88</td> <td>-1.90</td> </tr> </table>								Logging Accuracy vs Frequency	Error(dB)		TOTAL LOGGING ACCURACY (dB)	MAX	MIN		-0.88	-1.90																																																
Logging Accuracy vs Frequency	Error(dB)																																																																		
TOTAL LOGGING ACCURACY (dB)	MAX	MIN																																																																	
	-0.88	-1.90																																																																	



# SUMMARY TEST DATA ON HADA-D2001

PL38219/2245

## Log Linearity and Log Accuracy @ +85°C



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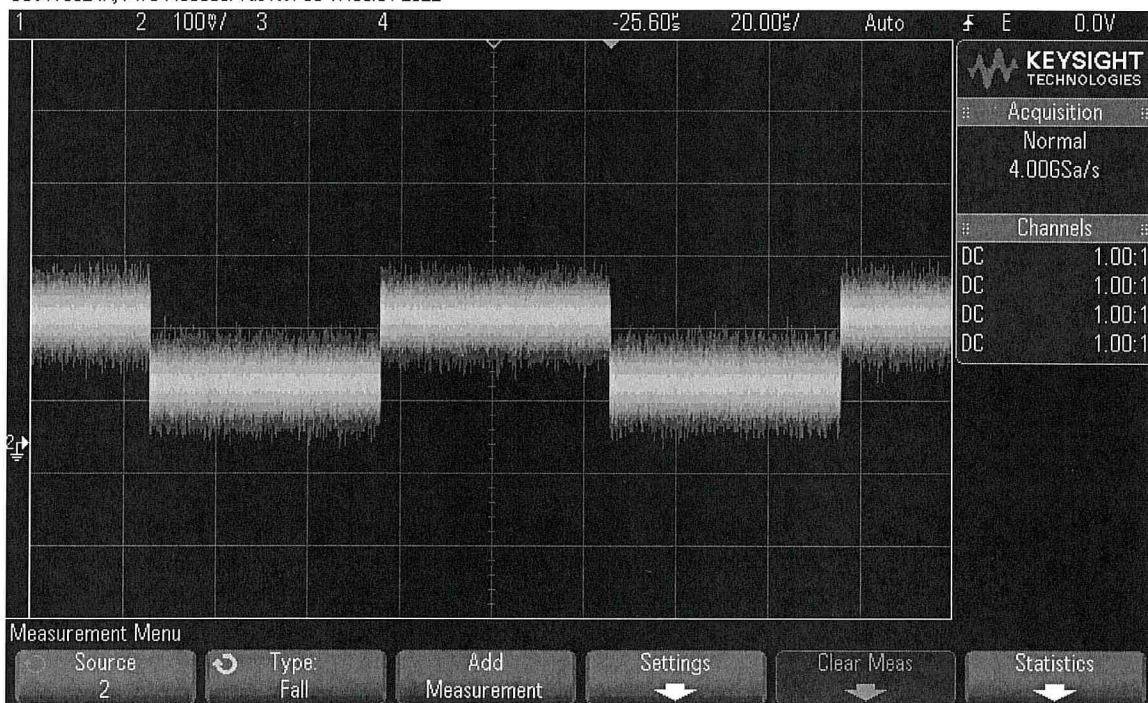


**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL38219/2245

**TSS -45 dBm**

DSO-X 3024A, MY54490369, Tue Nov 08 17:30:01 2022



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**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL38219/2245

**Rise Time 20.5nS**

DSO-X 3024A, MY54490369: Tue Nov 08 18:36:10 2022



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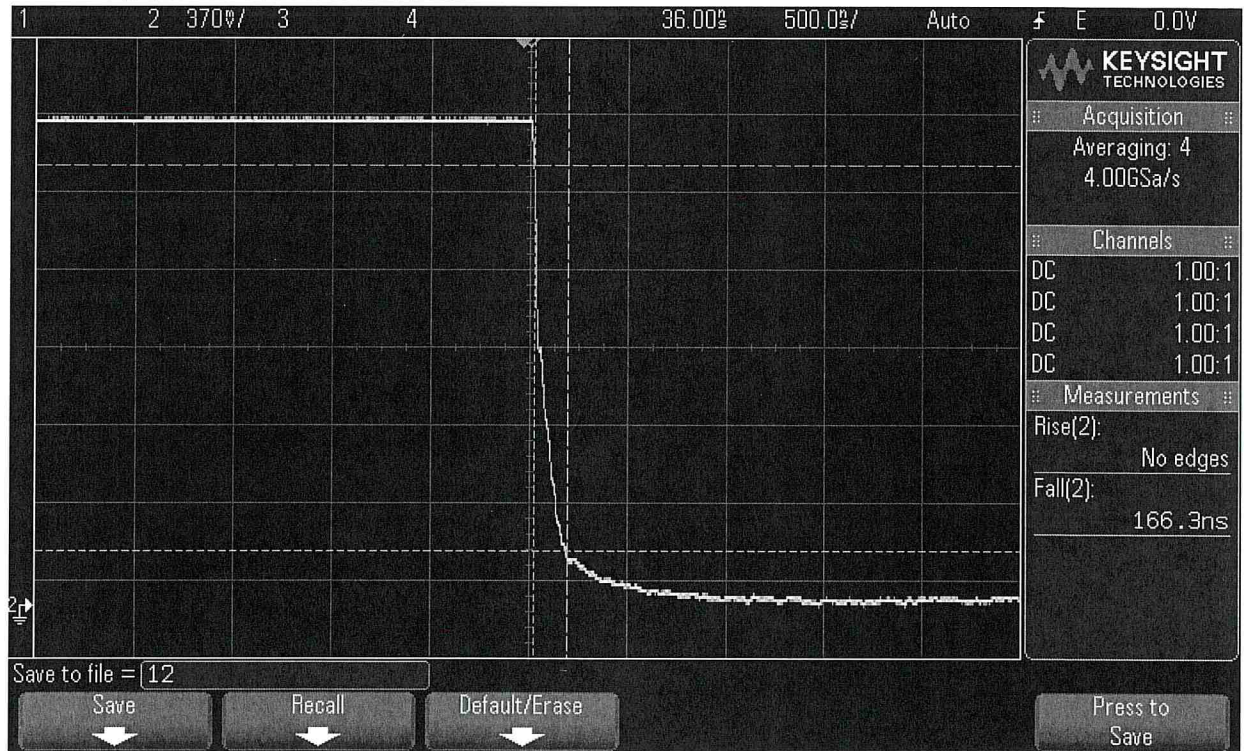


**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL38219/2245

**Fall Time 166.3nS**

DSO-X 3024A, MY54490369: Tue Nov 08 15:51:18 2022



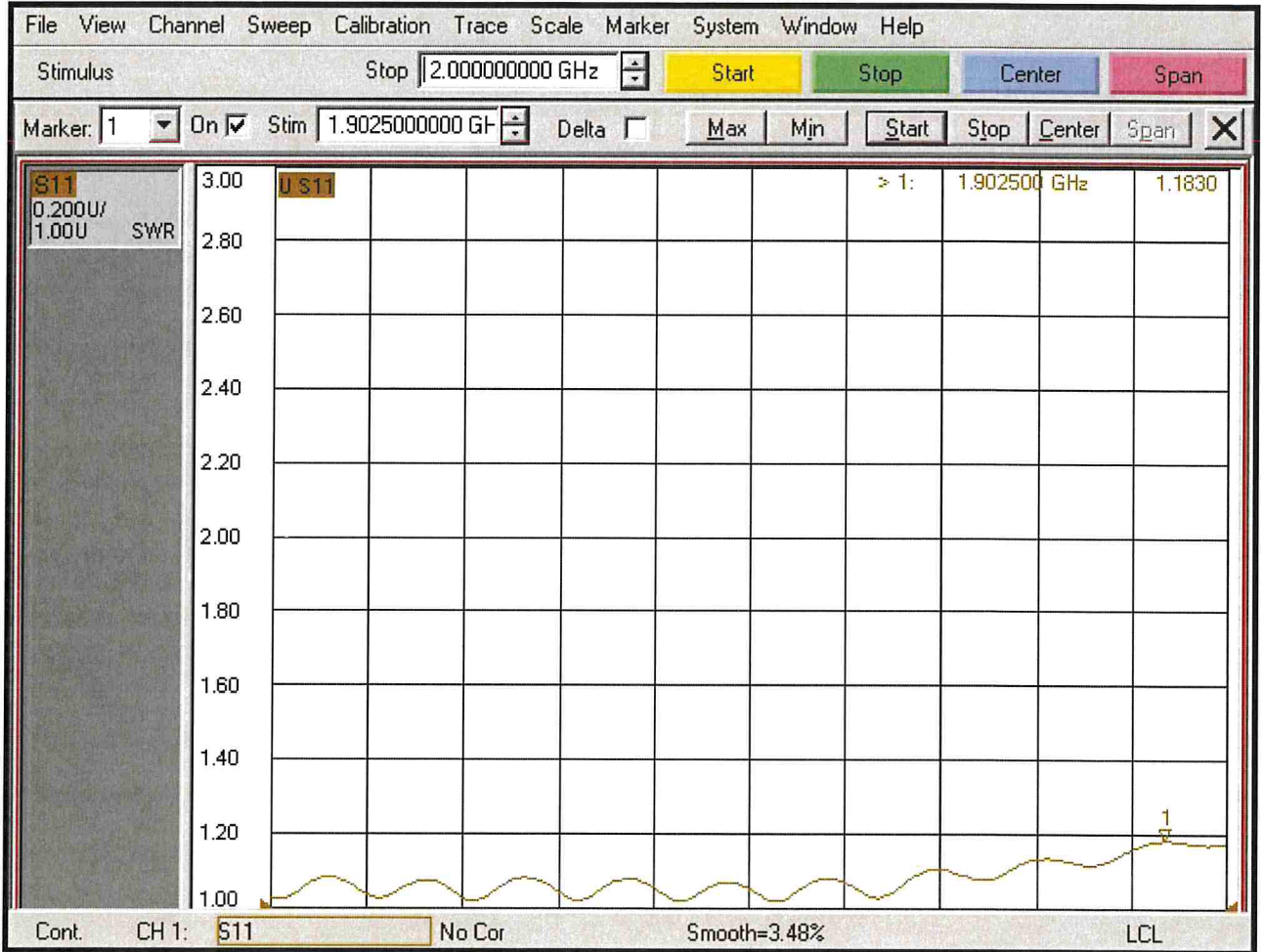
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**SUMMARY TEST DATA  
ON  
HADA-D2001**

PL38219/2245

**VSWR 1.18:1**



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