



**SUMMARY TEST DATA
ON
HADA-D2001**

PL38217/2245

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>PL38217/2245</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	±0.10 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)	+0.82 dB +0.60 dB See Plot	
6	Log Linearity:	±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C	-0.28 dB -0.49 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%)	17 nS See Plot	
10	Fall Time:	500 ns Max (@ Pulse width 100usec input) (90% to 10%)	226 nS See Plot	
11	DC Offset: (Input 50 Ω terminated):	+95 mV +55/-100 mV (@ -40°C to +85°C)	+ 89 mV + 89 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 Email: sales@pmi-rf.com
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13	Propagation Delay:	60 ns Max	40 nS	PMI QA3
14	Power Supply:	+12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max	90 mA 40 mA	}
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: *H. Western*

Date: 11-14-22



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PL38217/2245

Log Linearity and log Flatness @ +25°C

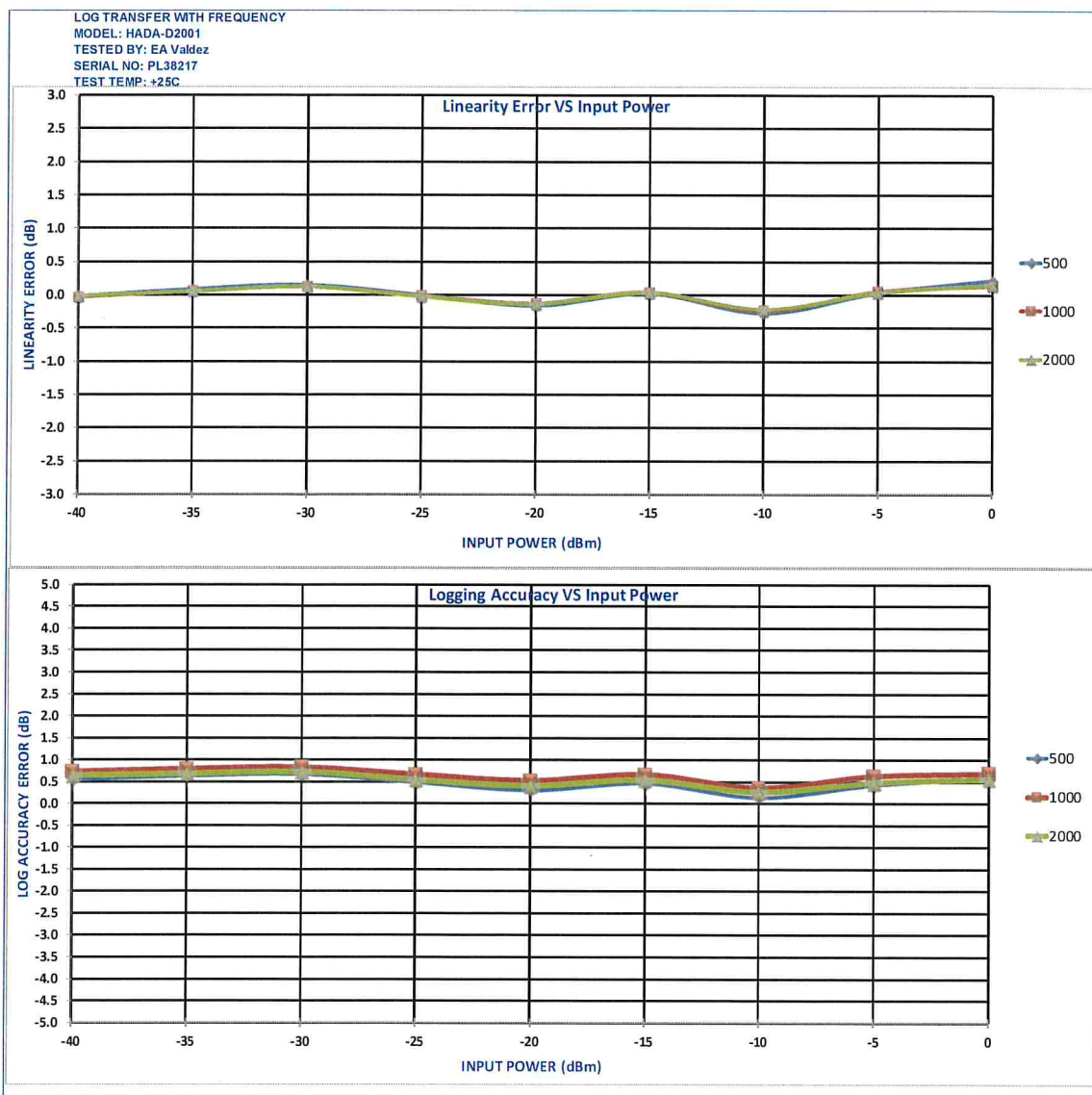
LOG TRANSFER WITH FREQUENCY		DC Offset= 0.089 V										RF Input Power (dBm)	
MODEL: HADA-D2001 TESTED BY: EA Valdez TEST DATE: 11/03/22 SERIAL NO: PL38217 TEST TEMP: +25C												 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suite 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM	
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0			
0.5 GHz	INTERCEPT (mV)	2368									Measured Value (mV)	Error (dB)	
	SLOPE (mV/dB)	49.8									Error (mV)	MAX MIN	
											LINEARITY ERROR (dB)	0.21 -0.28	
											LOGGING ACCURACY (dB)	0.66 0.14	
1 GHz	INTERCEPT (mV)	2377									Measured Value (mV)	Error (dB)	
	SLOPE (mV/dB)	49.7									Error (mV)	MAX MIN	
											LINEARITY ERROR (dB)	0.14 -0.24	
											LOGGING ACCURACY (dB)	0.82 0.36	
2 GHz	INTERCEPT (mV)	2371									Measured Value (mV)	Error (dB)	
	SLOPE (mV/dB)	49.7									Error (mV)	MAX MIN	
											LINEARITY ERROR (dB)	0.15 -0.22	
											LOGGING ACCURACY (dB)	0.72 0.26	
Flatness +/- dB		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	Logging Linearity vs Frequency		Error (dB)
Max Video Output Volts		0.39	0.84	0.89	1.13	1.39	1.63	1.87	2.13	2.38	TOTAL LOG LINEARITY (dB)		MAX MIN
Min Video Output Volts		0.38	0.63	0.88	1.12	1.37	1.62	1.86	2.12	2.38	Logging Accuracy vs Frequency		Error (dB)
											TOTAL LOGGING ACCURACY (dB)		MAX MIN



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Log Linearity and log Flatness @ -40°C

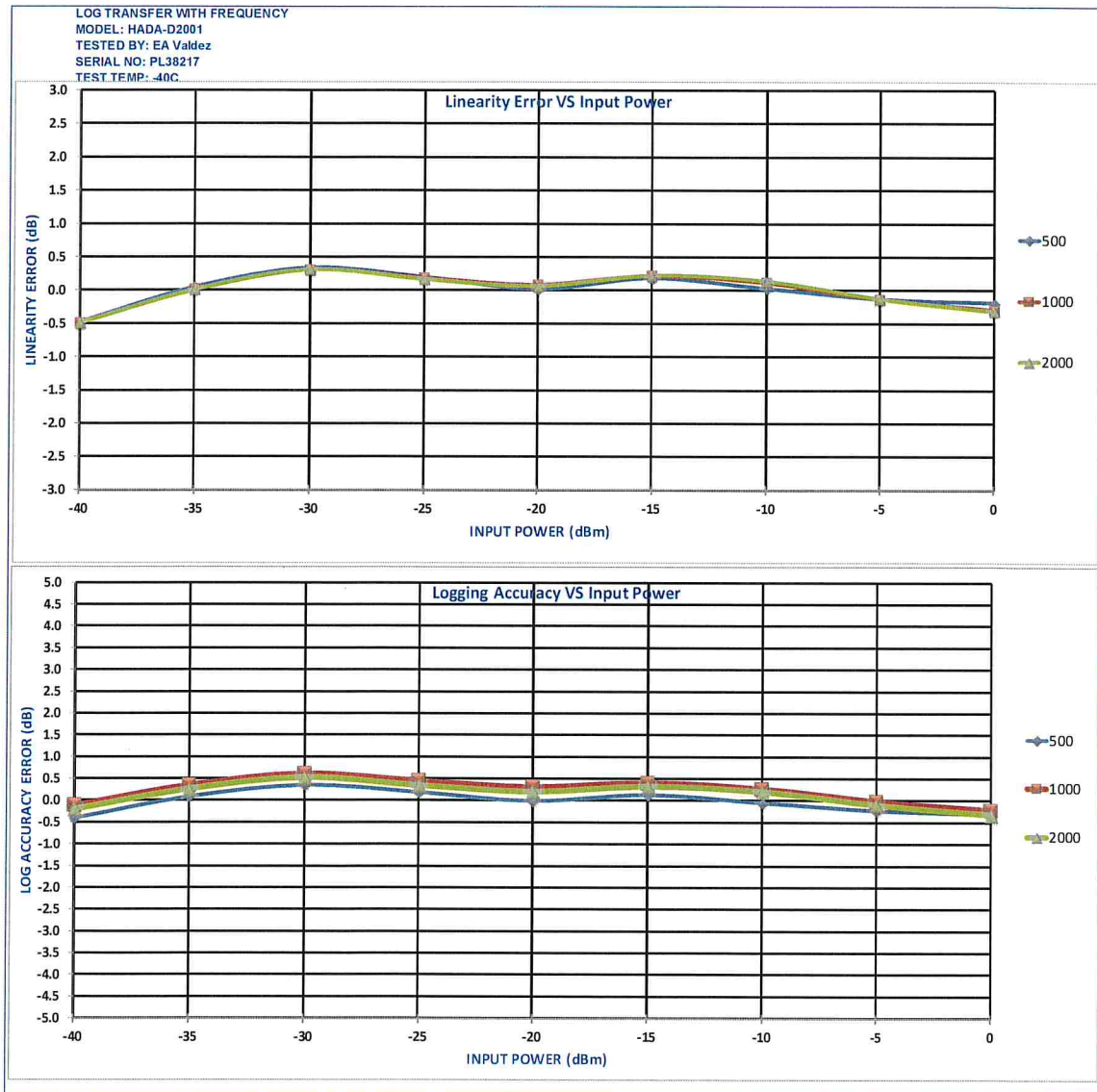
<p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: EA Valdez TEST DATE: 11/03/22 SERIAL NO: PL38217 TEST TEMP: -40C</p>		DC Offset= -0.005 V										 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM																																																																																																																																																																																																																																								
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MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/04/22 SERIAL NO: PL38217 TEST TEMP: +85C													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)	-40	-35	-30	-25	-20	-15	-10	-5	0	Measured Value (mV)	Error(dB)	
0.5 GHz	2335	49.9	340	598	842	1083	1326	1580	1812	2088	2359	Error (mV)	MAX MIN	
			2	11	5	-4	-10	-6	-24	2	24	LINEARITY ERROR (dB)	0.47 -0.48	
			0.05	0.21	0.10	-0.07	-0.21	-0.12	-0.48	0.05	0.47	LOGGING ACCURACY (dB)	0.18 -0.76	
			-0.20	-0.04	-0.16	-0.34	-0.48	-0.40	-0.76	-0.24	0.18			
1 GHz	2347	49.9	351	609	853	1094	1339	1594	1825	2101	2366	Measured Value (mV)	Error(dB)	
			2	10	4	-4	-9	-4	-22	4	19	Error (mV)	MAX MIN	
			0.03	0.20	0.09	-0.09	-0.18	-0.07	-0.45	0.08	0.39	LINEARITY ERROR (dB)	0.39 -0.45	
			0.02	0.18	0.06	-0.12	-0.22	-0.12	-0.50	0.02	0.32	LOGGING ACCURACY (dB)	0.32 -0.50	
2 GHz	2341	49.9	348	605	849	1089	1334	1587	1821	2094	2363	Measured Value (mV)	Error(dB)	
			3	10	5	-5	-9	-5	-21	2	22	Error (mV)	MAX MIN	
			0.05	0.20	0.09	-0.10	-0.19	-0.12	-0.43	0.04	0.44	LINEARITY ERROR (dB)	0.44 -0.43	
			-0.04	0.10	-0.02	-0.22	-0.32	-0.26	-0.58	-0.12	0.26	LOGGING ACCURACY (dB)	0.26 -0.58	
Flatness +/- dB			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	Logging Linearity vs Frequency	Error(dB)	
Max Video Output Volts			0.35	0.81	0.85	1.09	1.34	1.59	1.83	2.10	2.37		MAX MIN	
Min Video Output Volts			0.34	0.80	0.84	1.08	1.33	1.58	1.81	2.08	2.36	TOTAL LOG LINEARITY (dB)	0.47 -0.48	
												Logging Accuracy vs Frequency	Error(dB)	
													MAX MIN	
													TOTAL LOGGING ACCURACY (dB)	0.32 -0.76

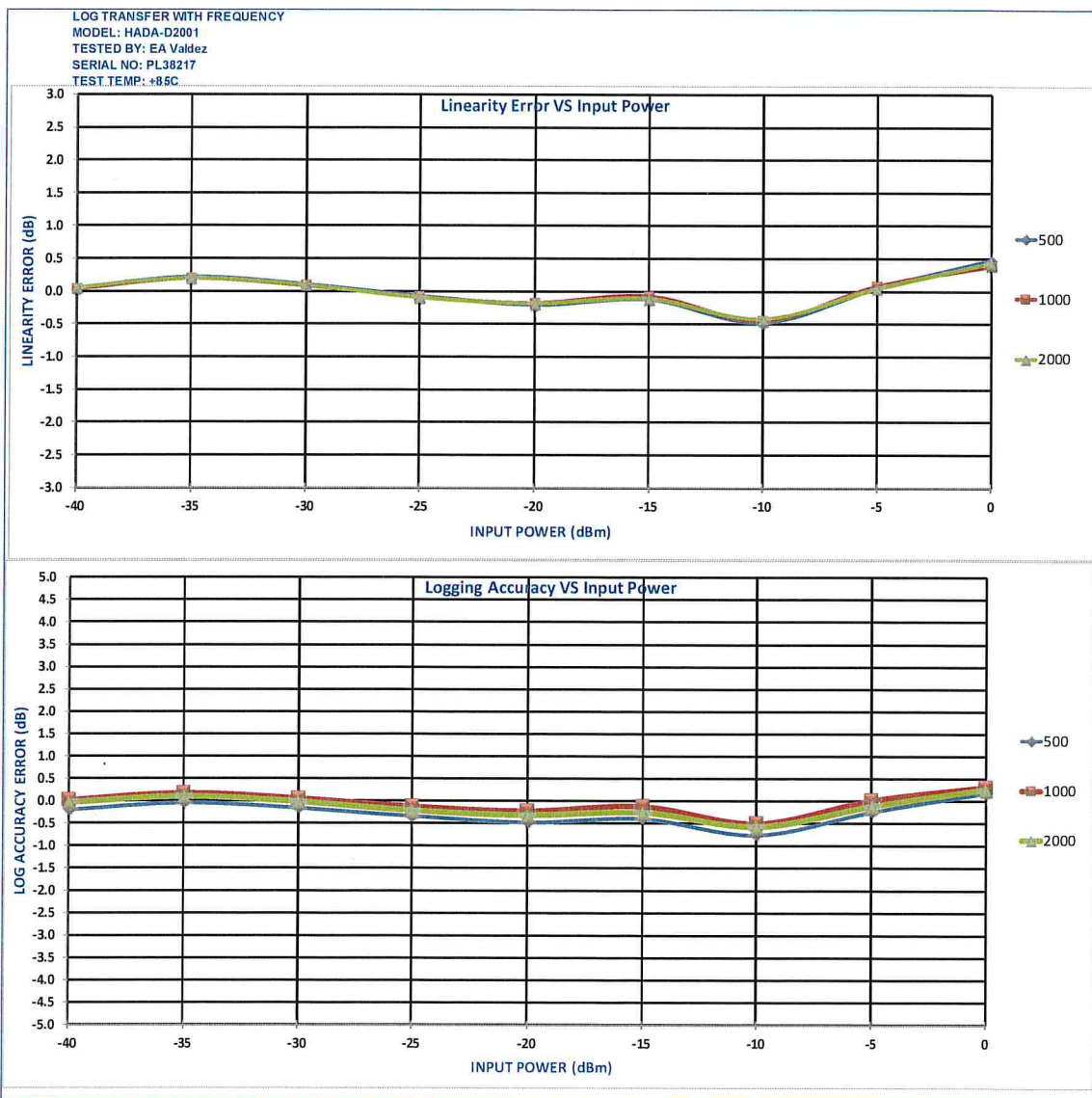
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL38217/2245

Log Linearity and log Flatness @ +85°C



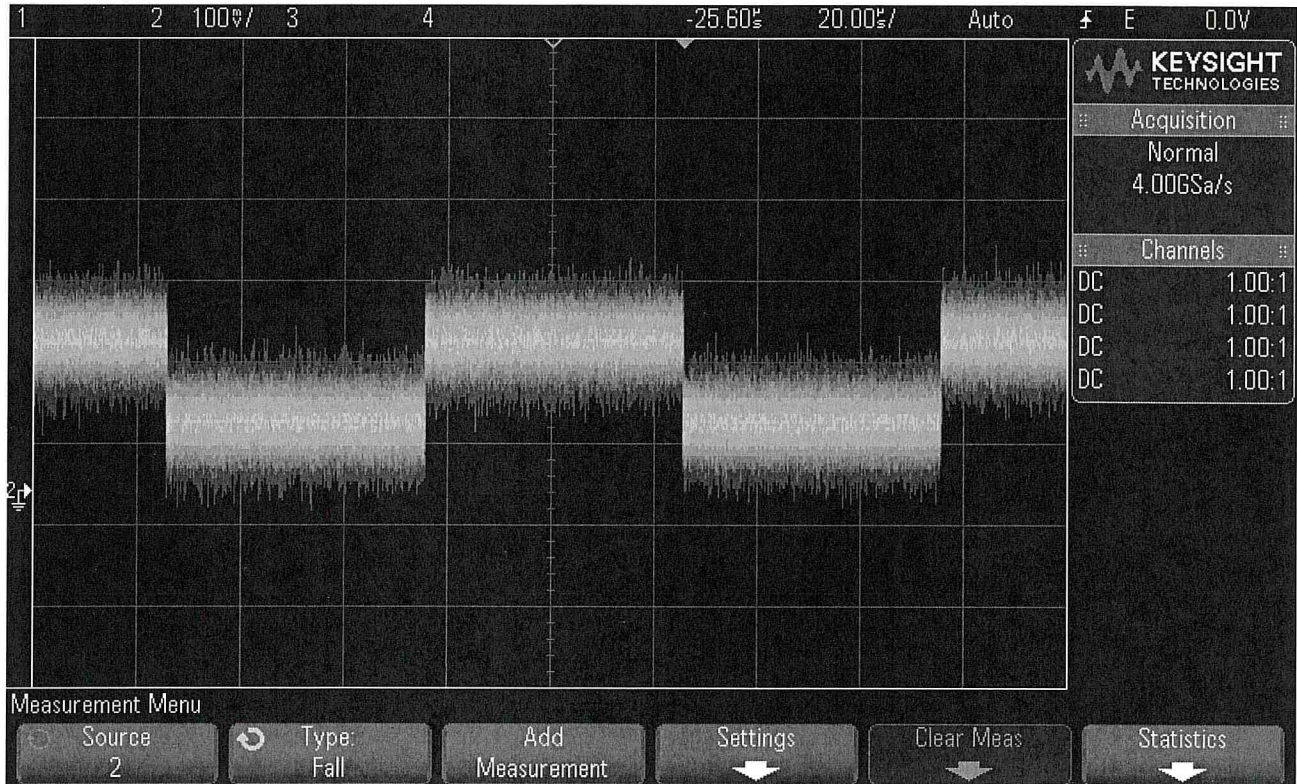


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38217/2245

TSS @ -45 dBm

DSO-X 3024A, MY54490369, Tue Nov 08 17:27:23 2022



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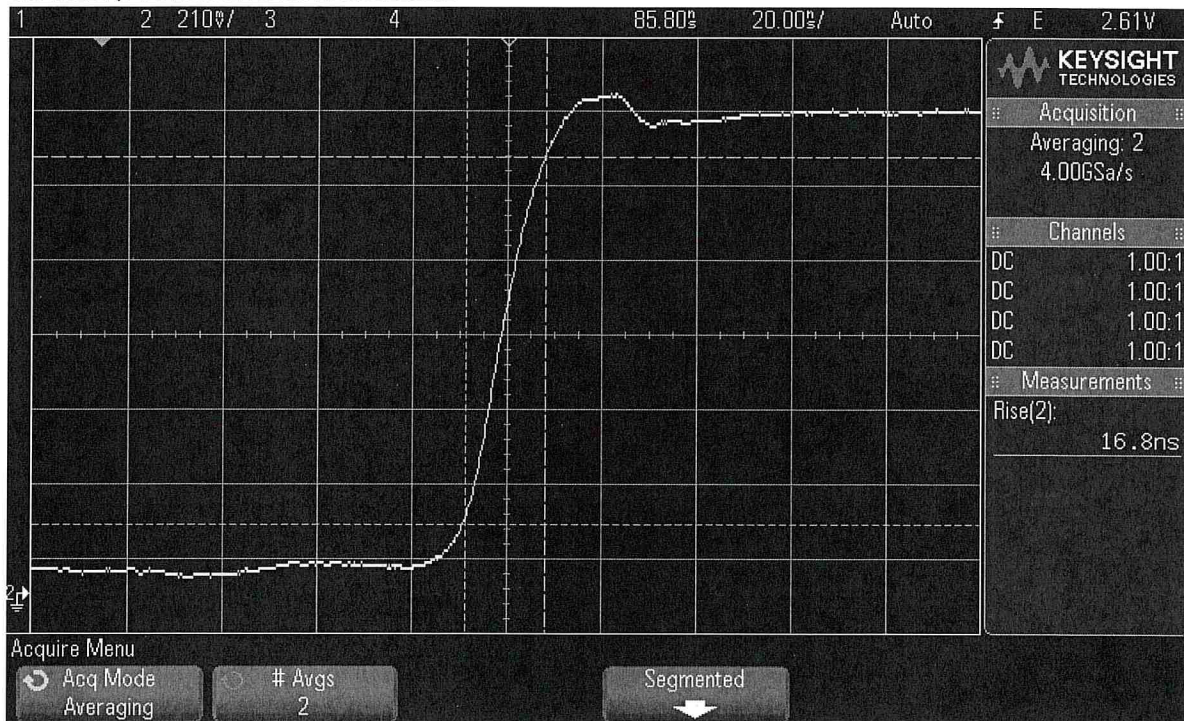


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38217/2245

Rise Time 16.8nS

DSO-X 3024A, MY54490369: Tue Nov 08 18:33:32 2022



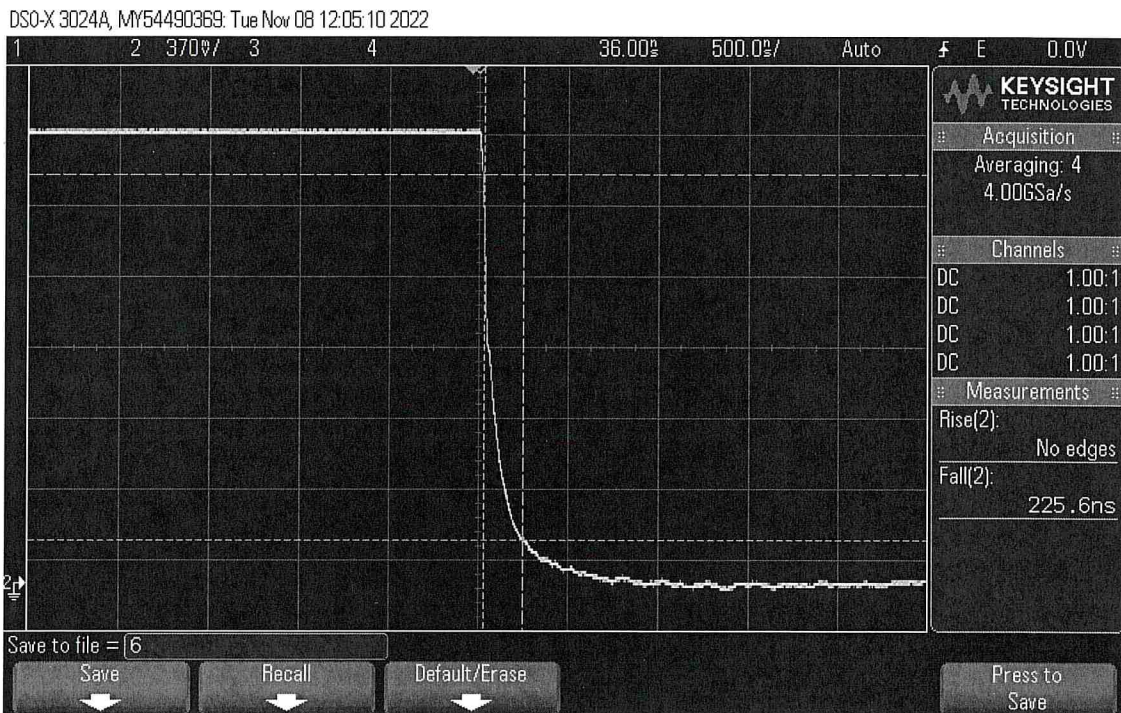
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**SUMMARY TEST DATA
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PL38217/2245

Fall Time 225.6nS



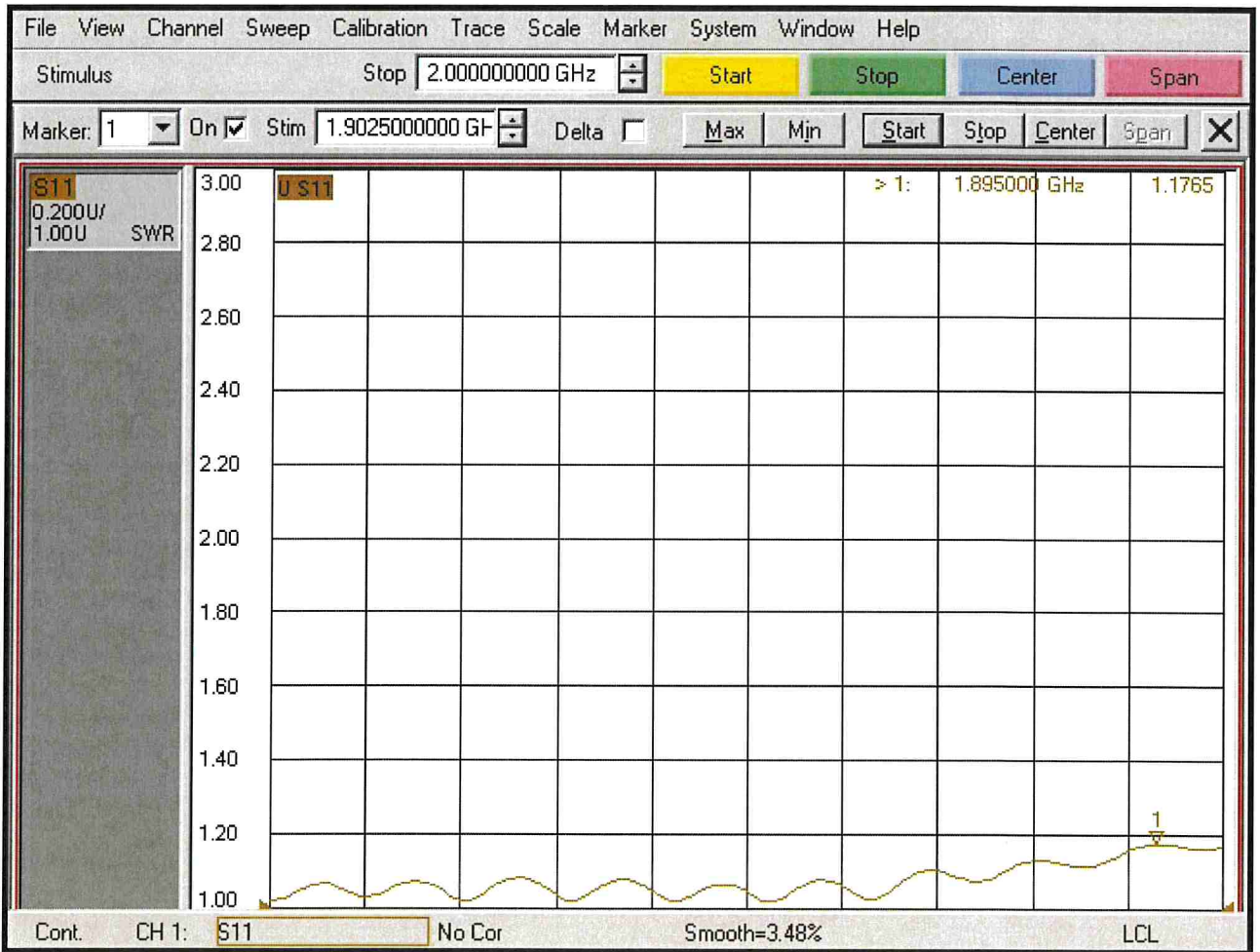
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**SUMMARY TEST DATA
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PL38217/2245

VSWR 1.18:1



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