

**SUMMARY TEST DATA
ON
HADA-D2002**

Customer: _____
SO No: _____
Model No: HADA-D2002
Serial No: PL56749/2550

Tested By: Justen Gayduchik
Temperature: +25°C (Unless otherwise specified)
Date: 2/9/2026
Drawing No: 27620222 Rev: A2

Test Item No	PARAMETERS	SPECIFIED VALUE	TEST RESULTS			QA
			+25°C	-40°	+85°C	QC
1	Frequency Range:	2.0 GHz – 18.0 GHz	2.0 GHz – 18.0 GHz			PMI QA.0
2	TSS:	-40 dBm Min	-42.9 dBm	NA	NA	
3	Frequency Flatness:	±1.65 dB Max	± 0.84 dB	± 0.77 dB	± 0.77 dB	
4	Input / Output Characteristics: (93 Ω)	Y = 2150 + 50X [X: Input (dBm), Y: Output (mv)]	Pass	Pass	Pass	
5	Logging Accuracy	±1.5 dB Max (@ +25°C, 10 GHz)* [-36 dBm ≤ INPUT ≤ +4 dBm] ±3.1 dB Max (Note)	0.66 dB / -0.26 dB @ 10GHZ 1.02 dB / -0.84 dB @ ALL OTHER FREQUENCY	1.16 dB / -0.6 dB	0.84 dB / -1.38 dB	
6	Log Linearity:	±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C	0.32 dB / -0.32 dB	0.42 dB / -0.64 dB	0.57 dB / -0.47 dB	
7	Maximum Input Power (CW):	+23 dBm	Pass	Pass	Pass	
8	Duty Cycle:	100%	Pass	Pass	Pass	
9	Rise Time:	30 ns Max (10% to 90%)	18 ns			
10	Fall Time:	500 ns Max (@ Pulse width 100µs input) (90% to 10%)	86.8 ns			
11	DC Offset: (Input 50 Ω terminated)	+95 mV +55/-100mV	95 mV @ +25°c	72 mV @ -40°c	75 mV @ +85°c	

*Notes: Includes Frequency Flatness, Input Power, Temperature Deviation and Deviation for DC Offset. The test shall be performed using RG-62 (or equivalent), 5 meter, 93±0.5 Ohms terminated.

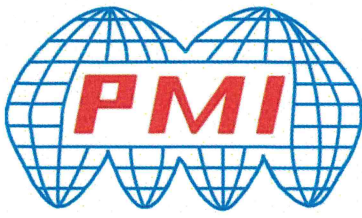
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PL56749/2550

Test. Item No	PARAMETERS	SPECIFIED VALUE	TEST RESULTS			QA
			+25°C	-40°	+85°C	QC
12	Input VSWR:	3.0:1 Max @ +23 dBm	1.4:1	NA	NA	PMI QA?
13	Propagation Delay:	60 ns Max	Pass	Pass	Pass	
14	Power Supply:	+12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max	+12 ± 1VDC @ 120 mA Max -12 ± 1VDC @ 70 mA Max	NA	NA	
15	Warm Up Time:	2 Minutes Max	<2 Minutes	<2 Minutes	<2 Minutes	

QA/QC Approval: K. H. [Signature]

Date: 2-10-26



SUMMARY TEST DATA ON HADA-D2002

LOG TRANSFER WITH FREQUENCY @ +25C
 MODEL: HADA-D2002
 SERIAL NO: PL56749
 TESTED BY: Justen Gayduchik
 DATE: 12/12/2025



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

GRAPH #1

Output Voltage Offset= 0.095 Volts

Frequency										RF Input Power (dBm)		
2 GHz	INTERCEPT (mV)	2134									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	50.6									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.26 -0.26
											LOGGING ACCURACY (dB)	-0.12 -0.84
6 GHz	INTERCEPT (mV)	2174									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	50									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.20 -0.27
											LOGGING ACCURACY (dB)	0.68 0.22
10 GHz	INTERCEPT (mV)	2164									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	50.7									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.32 -0.32
											LOGGING ACCURACY (dB)	0.66 -0.26
14 GHz	INTERCEPT (mV)	2159									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	49.5									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.17 -0.22
											LOGGING ACCURACY (dB)	0.62 0.06
18 GHz	INTERCEPT (mV)	2157									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	48.6									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.29 -0.31
											LOGGING ACCURACY (dB)	1.02 -0.26
Flatness +/- dB												
Max Video Output V												
Min Video Output V												

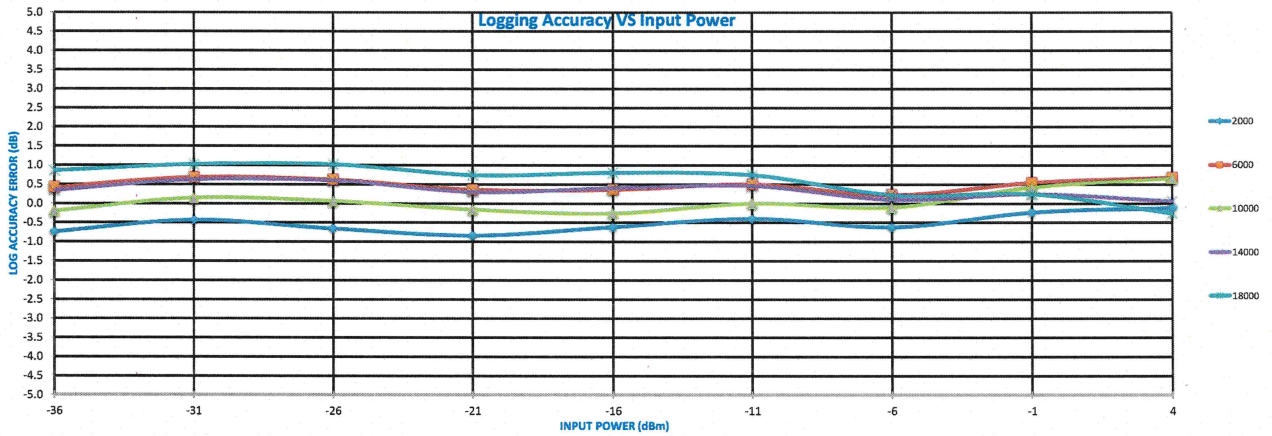
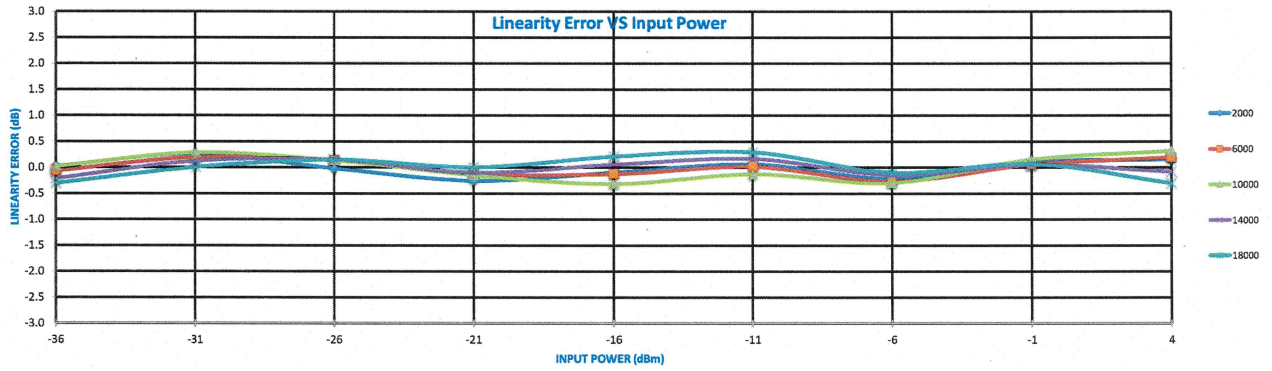
Logging Linearity vs Frequency	Error(dB)
	MAX MIN
LOGGING LINEARITY ERROR (dB)	0.32 -0.32

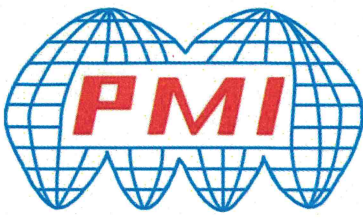
Logging Accuracy vs Frequency	Error(dB)
	MAX MIN
LOGGING ACCURACY ERROR (dB)	1.02 -0.84



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LOG TRANSFER WITH FREQUENCY @ +25C
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SUMMARY TEST DATA ON HADA-D2002

LOG TRANSFER WITH FREQUENCY @ -40C
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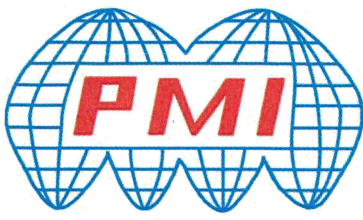
GRAPH #2

Output Voltage Offset= 0.072 Volts

Frequency										RF Input Power (dBm)		
2 GHz	INTERCEPT (mV)	2137									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	50.2									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.23 -0.24
											LOGGING ACCURACY (dB)	-0.06 -0.54
6 GHz	INTERCEPT (mV)	2177									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	49.4									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.18 -0.19
											LOGGING ACCURACY (dB)	0.96 0.30
10 GHz	INTERCEPT (mV)	2162									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	50.2									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.16 -0.20
											LOGGING ACCURACY (dB)	0.34 -0.04
14 GHz	INTERCEPT (mV)	2158									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	48.9									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.34 -0.53
											LOGGING ACCURACY (dB)	0.88 -0.44
18 GHz	INTERCEPT (mV)	2158									Measured Value (mV)	Error(dB)
	SLOPE (mV/dB)	48.3									Error (mV)	MAX MIN
											LINEARITY ERROR (dB)	0.42 -0.64
											LOGGING ACCURACY (dB)	1.16 -0.60
Flatness +/- dB												
Max Video Output V												
Min Video Output V												

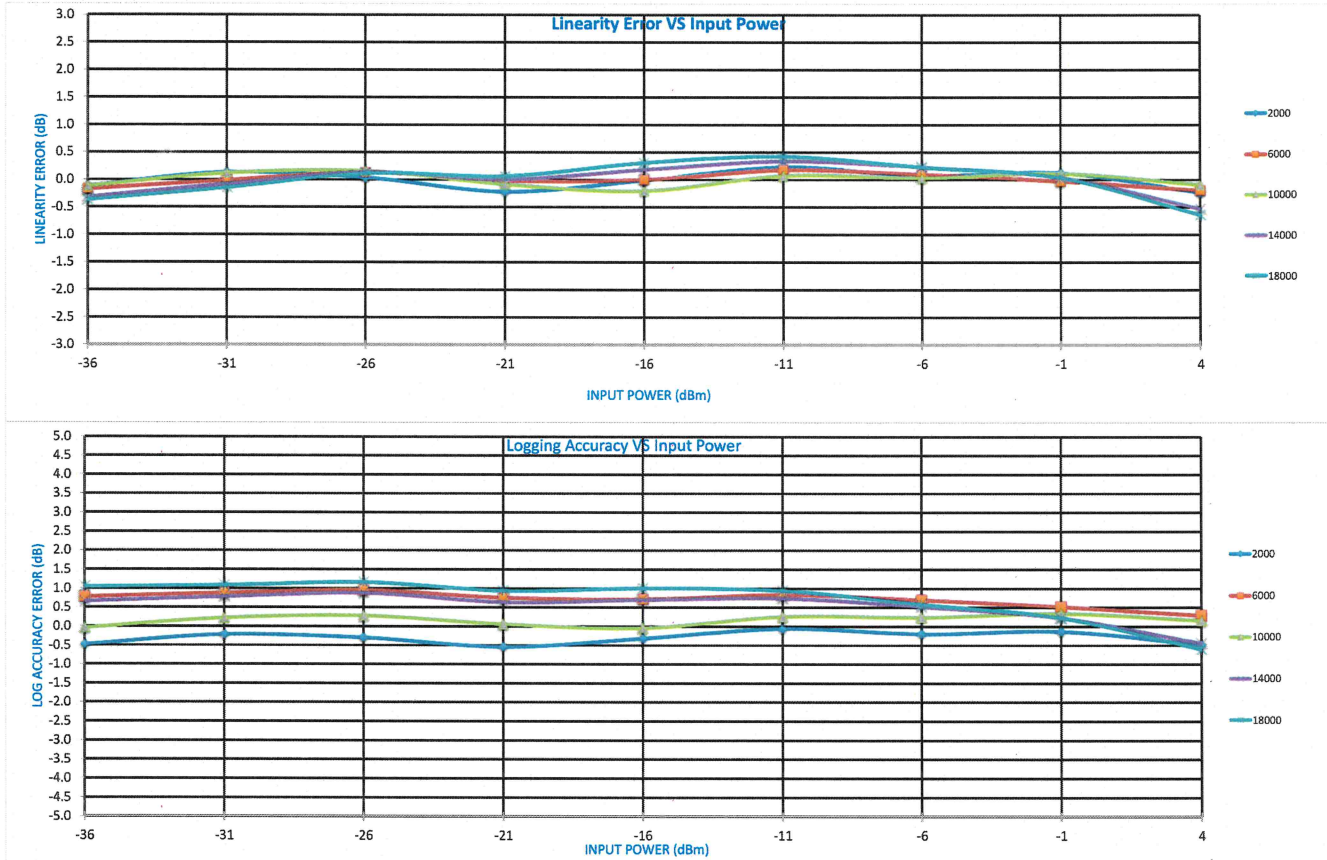
Logging Linearity vs Frequency		Error(dB)
		MAX MIN
LOGGING LINEARITY ERROR (dB)		0.42 -0.64

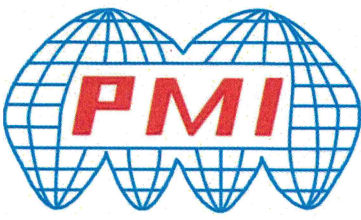
Logging Accuracy vs Frequency		Error(dB)
		MAX MIN
LOGGING ACCURACY ERROR (dB)		1.16 -0.60



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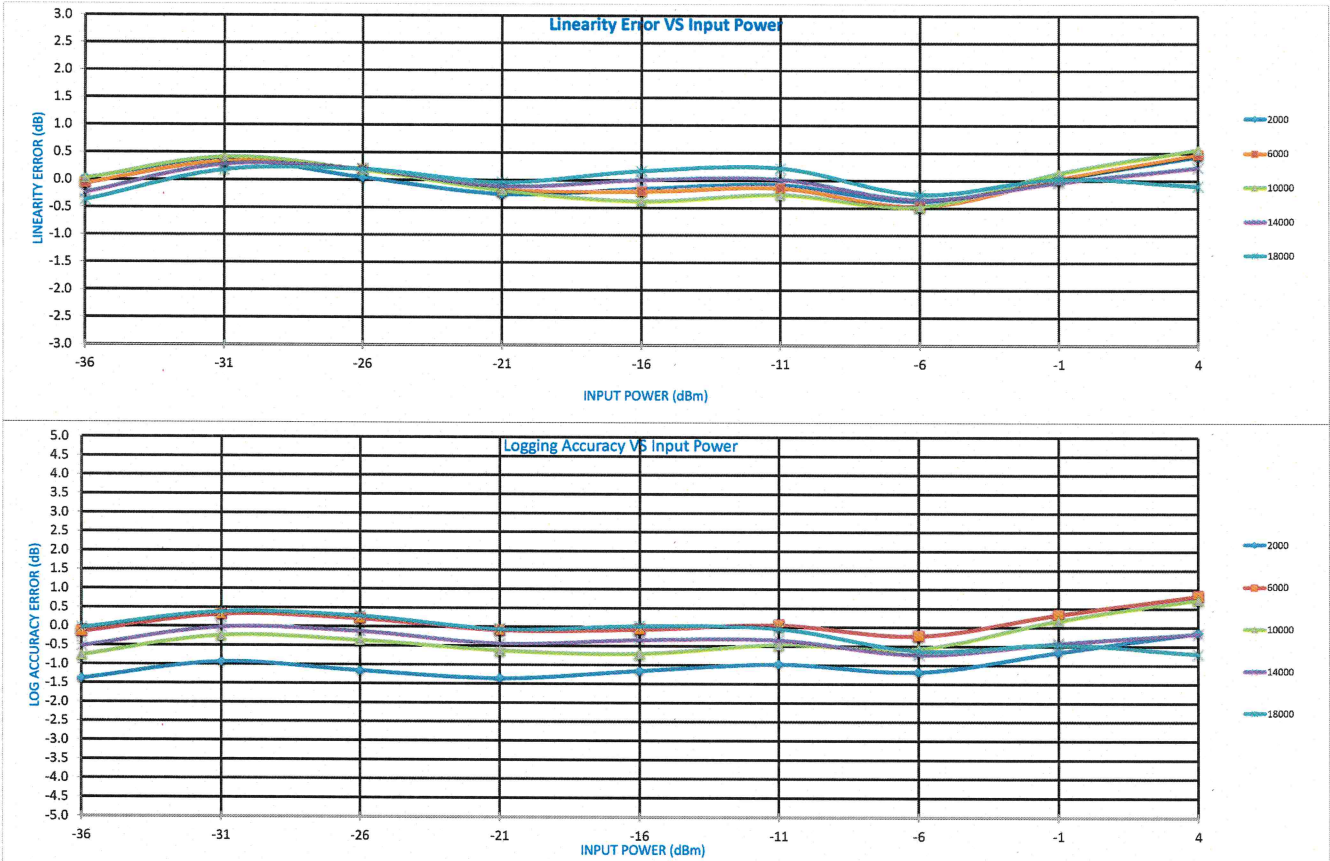
LOG TRANSFER WITH FREQUENCY @ -40C
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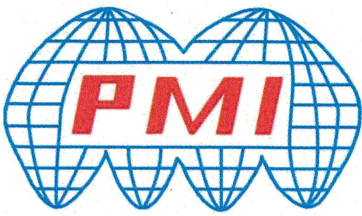




SUMMARY TEST DATA ON HADA-D2002

LOG TRANSFER WITH FREQUENCY @ +85C
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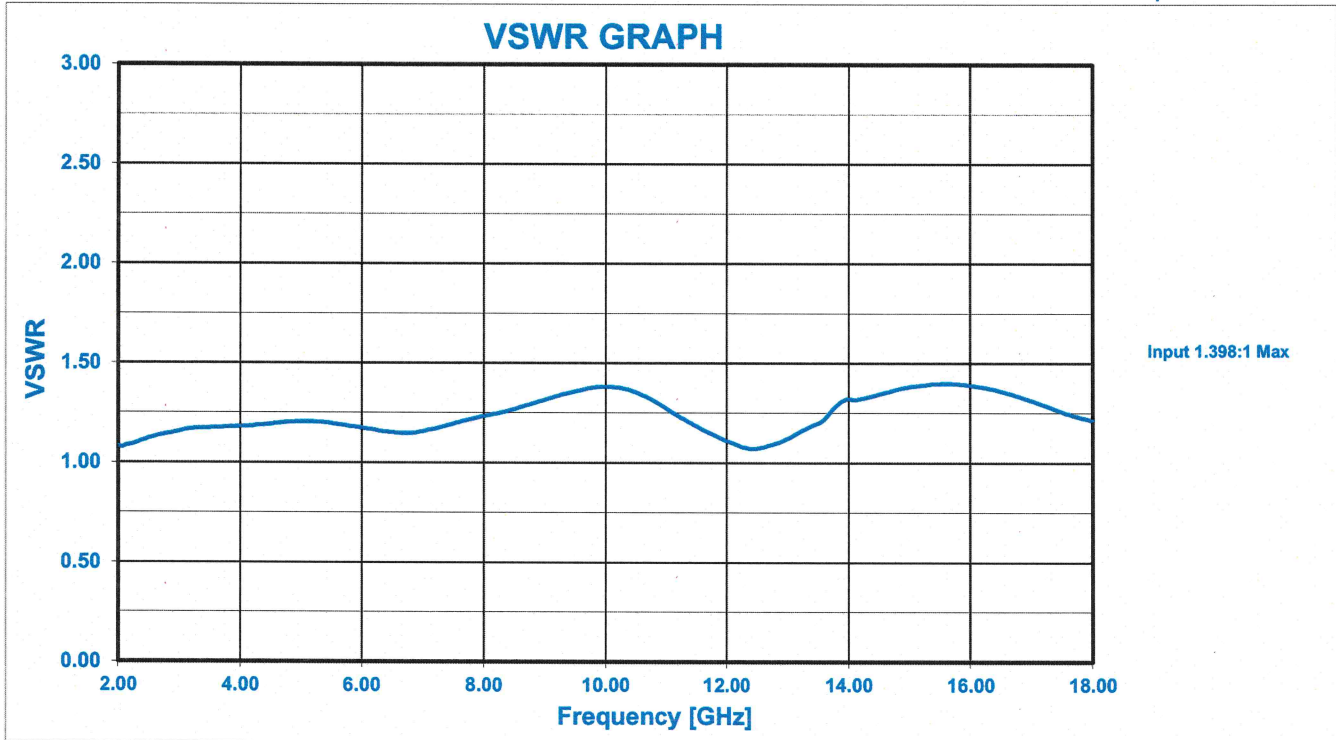




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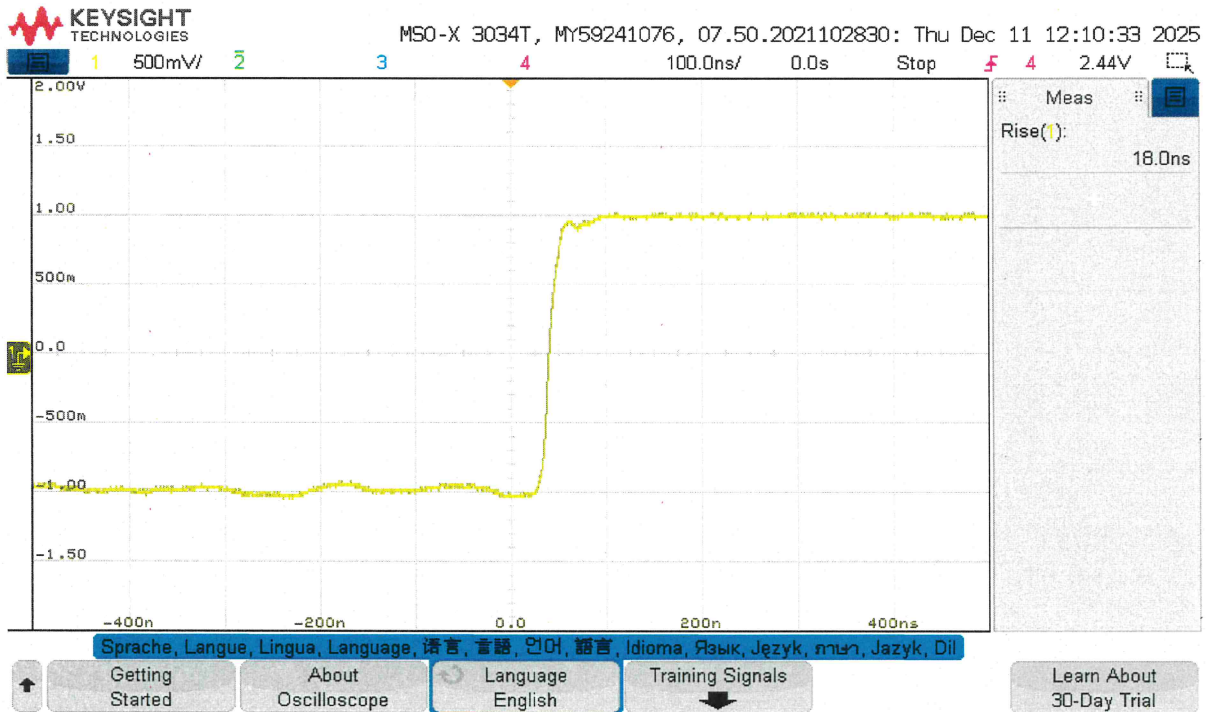
Temperature: +25C





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Rise Time = 18 ns





**SUMMARY TEST DATA
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Fall Time = 86.8 ns

