

## SUMMARY TEST DATA ON SDLVA-1G20G-55-12-SFF

CUSTOMER: \_\_\_\_\_  
SO: \_\_\_\_\_  
MODEL NO: SDLVA-1G20G-55-12-SFF  
SERIAL NO: PL53544/2526

TESTED BY: Jeremy Walker  
TEMPERATURE: +25°C (Unless Otherwise Specified)  
DATE: 6/24/2025  
DRAWING NO: 27637600 REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range	1 GHz – 20 GHz	1 GHz – 20 GHz	Pass
2	Frequency Flatness	±2.0 dB Typ	± 1.70 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 2.01 dB See Plot	Pass
4	Log Linearity Over Temp	±2.0 dB Typ (-50 to 0dBm) (@ -55°C to +85°C)	By Design	Pass
5	Logging Range	-55 to +5 dBm	PASS	Pass
6	Video Load	50 OHMS	50 OHMS	Pass
7	Input VSWR	2.8:1 Typ	4.519:1	Pass
8	Log Video Output Voltage	0.1 V to 2.5V Typ	See Plot	Pass
9	Log Video Output Slope	50 mV / dB Typ	50.06 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	8 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	17.3 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	42.8 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-57.1 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	120mA	Pass

QA/QC Approval:    
 PMI QAS

Date: 6-25-25

LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-1G20G-55-12-SFF  
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 DATE: 6/24/2025  
 SERIAL NO: PL53544  
 Test Temp: +25C



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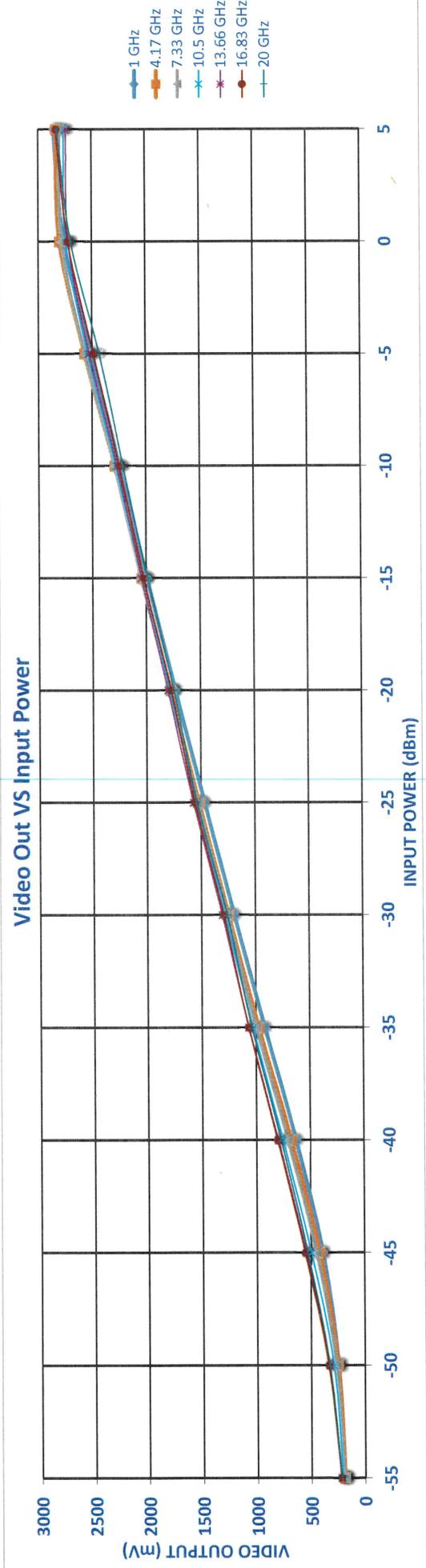
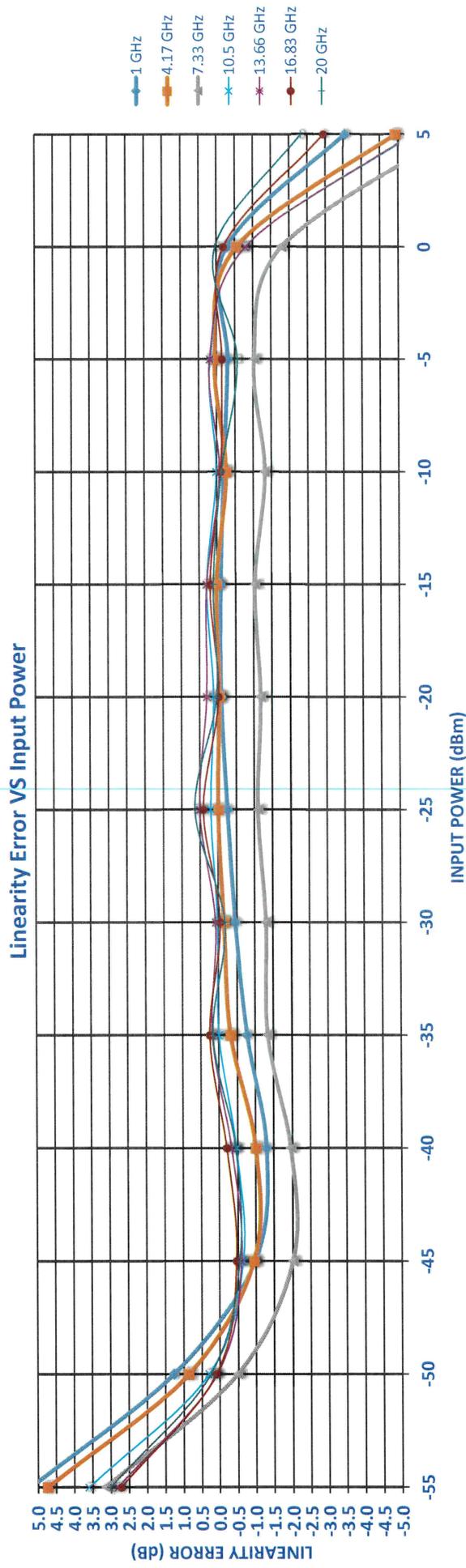
Output Offset(V)= 0.166

Frequency

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
1 GHz	2777	51.9	191	246	389	632	919	1195	1465	1733	1993	2248	2502	2763	2833	2777	-1.30	1.27
4.17 GHz	2829	52.4	193	252	419	678	976	1247	1517	1777	2043	2291	2569	2800	2833	2829	-1.01	0.87
7.33 GHz	2878	51.7	198	269	449	710	1000	1260	1529	1783	2049	2293	2566	2785	2801	2878	-2.01	-0.49
10.5 GHz	2784	50.2	206	291	494	754	1028	1280	1540	1786	2046	2283	2542	2744	2763	2784	-0.79	0.30
13.66 GHz	2759	48.6	222	332	542	798	1066	1304	1568	1801	2044	2269	2525	2720	2741	2759	-0.80	0.50
16.83 GHz	2734	48.0	226	340	553	805	1067	1292	1554	1773	2024	2249	2487	2725	2833	2734	-0.46	0.40
20 GHz	2697	47.6	222	328	528	771	1038	1260	1537	1746	1988	2215	2432	2699	2825	2697	-0.57	0.64
Flatness +/-dB																+/-	1.70	FLATNESS ERROR (dB)

Slope Avg(mv/dB) 50.1

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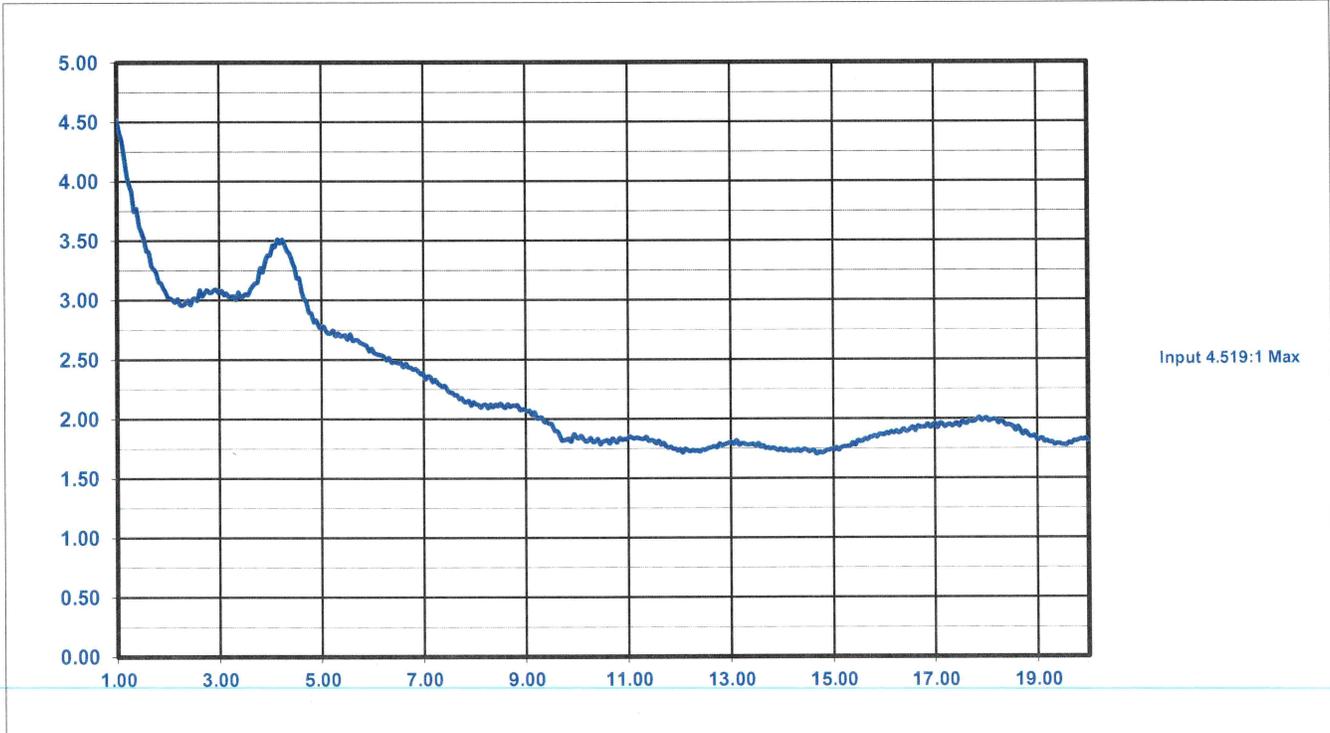




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SDLVA-1G20G-55-12-SFF**

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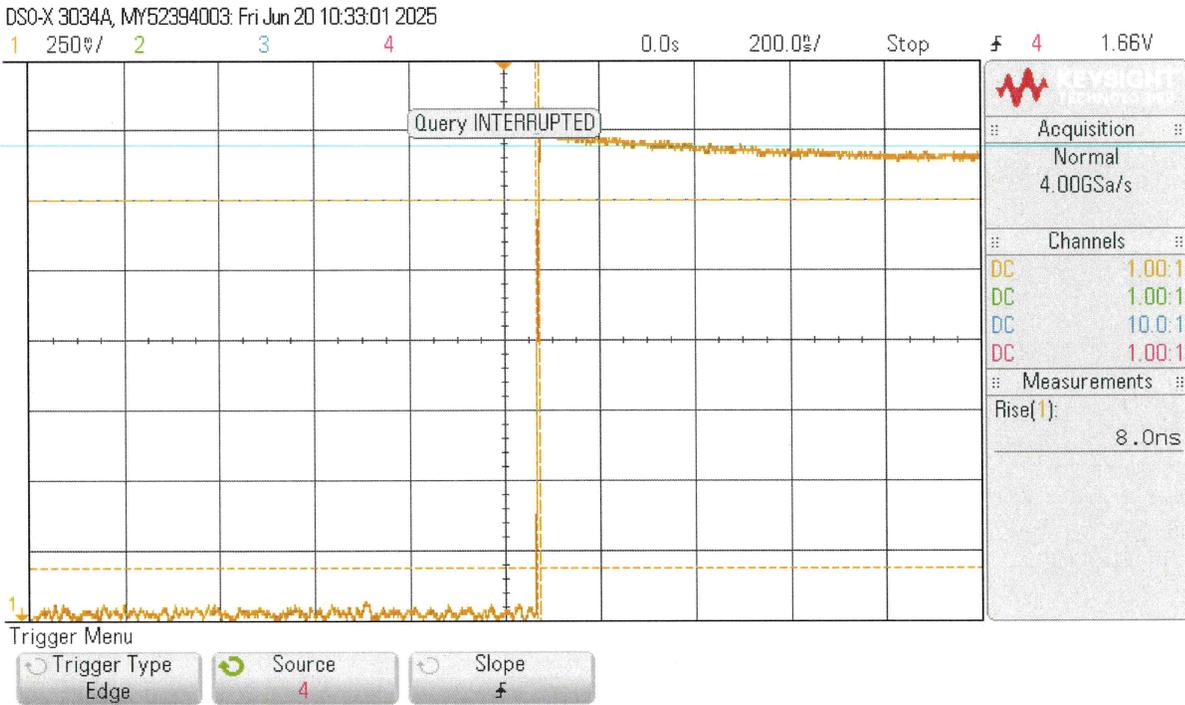
Temperature: +25C





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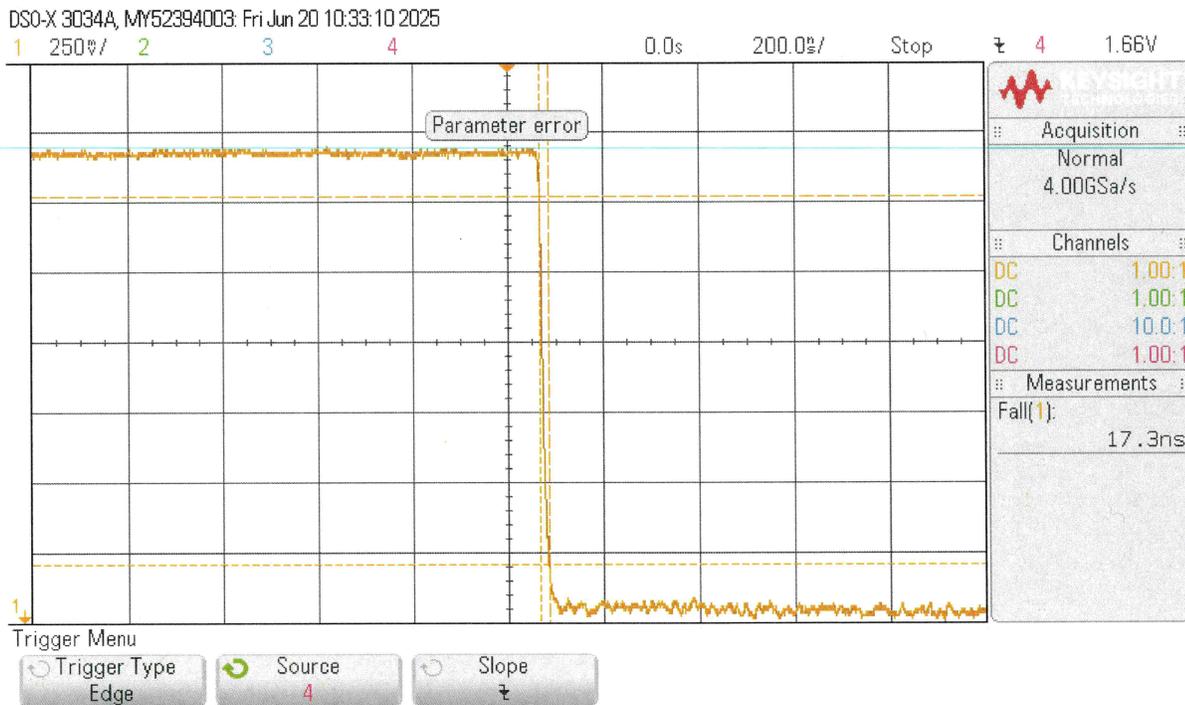
Rise Time = 8 ns





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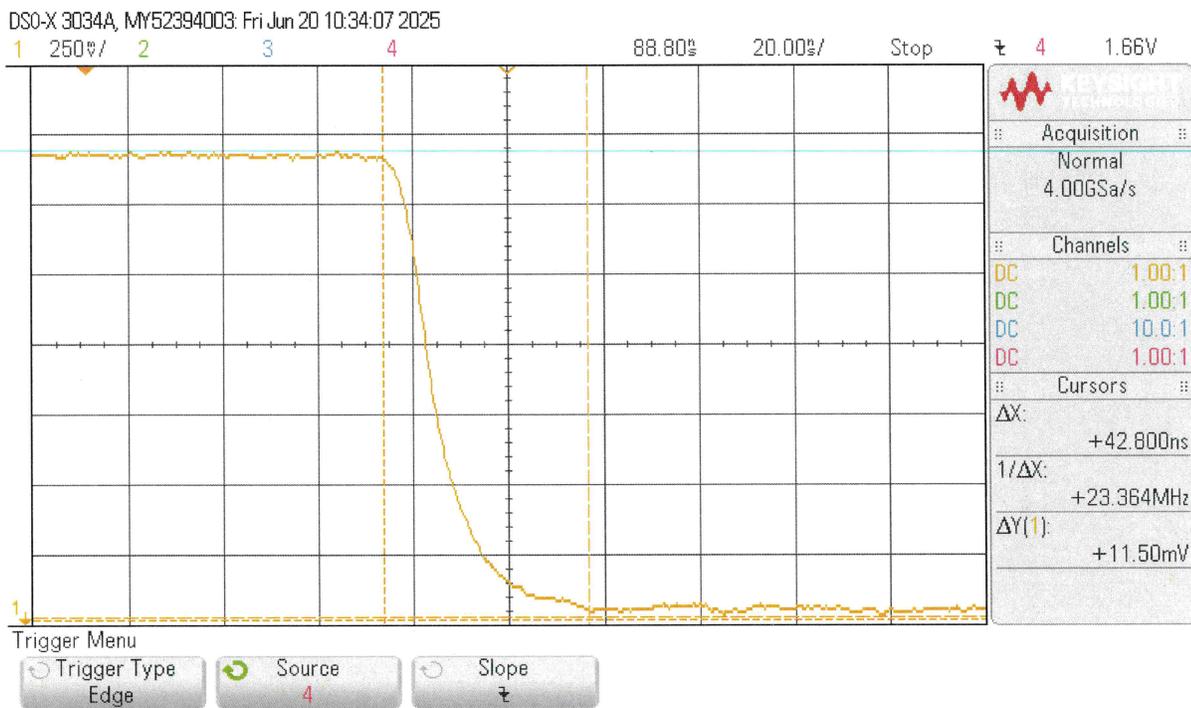
Fall Time = 17.3 ns





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Recovery Time = 42.8 ns





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TSS = -57.1 dBm

DSO-X 3034A, MY52394003: Fri Jun 20 10:33:19 2025

