

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

CUSTOMER: \_\_\_\_\_  
 SO: \_\_\_\_\_  
 MODEL NO: SDLVA-1G20G-55-12-SFF  
 SERIAL NO: PL53540/2526

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	± 1.90 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 2.02 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	49.31 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	7.3 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	19 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	33.4 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-54.7 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	119mA	Pass

QA/QC Approval:  <sup>PMI</sup> <sub>QA3</sub>

Date: 6-25-25



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LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-1G20G-55-12-SFF  
 TESTED BY: Jeremy Walker  
 DATE: 6/24/2025  
 SERIAL NO: PL53540  
 Test Temp: +25C

Output Offset(V)= 0.151

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	2685	51.1	170	212	330	563	845	1124	1388	1654	1912	2174	2419	2658	2748	-1.57	1.56	LINEARITY ERROR (dB)
4.17 GHz	2736	51.5	172	216	360	613	907	1181	1442	1700	1964	2221	2483	2692	2736	-1.22	1.08	LINEARITY ERROR (dB)
7.33 GHz	2769	50.8	175	226	380	636	921	1183	1442	1697	1961	2214	2469	2678	2705	-2.02	-0.05	LINEARITY ERROR (dB)
10.5 GHz	2682	49.4	200	-3	-103	-101	-70	-62	-57	-56	-46	-47	-46	-91	-318	-0.87	0.63	LINEARITY ERROR (dB)
13.66 GHz	2671	48.0	195	283	479	728	997	1233	1487	1720	1963	2198	2444	2623	2651	-1.00	0.32	LINEARITY ERROR (dB)
16.83 GHz	2656	47.3	201	298	503	747	1011	1235	1487	1709	1959	2191	2418	2630	2724	-0.56	0.29	LINEARITY ERROR (dB)
20 GHz	2623	47.1	198	287	478	712	978	1203	1465	1677	1919	2159	2371	2611	2718	-0.60	0.40	LINEARITY ERROR (dB)
Flatness +/-dB																		
Slope Avg(mv/dB) 49.3																		

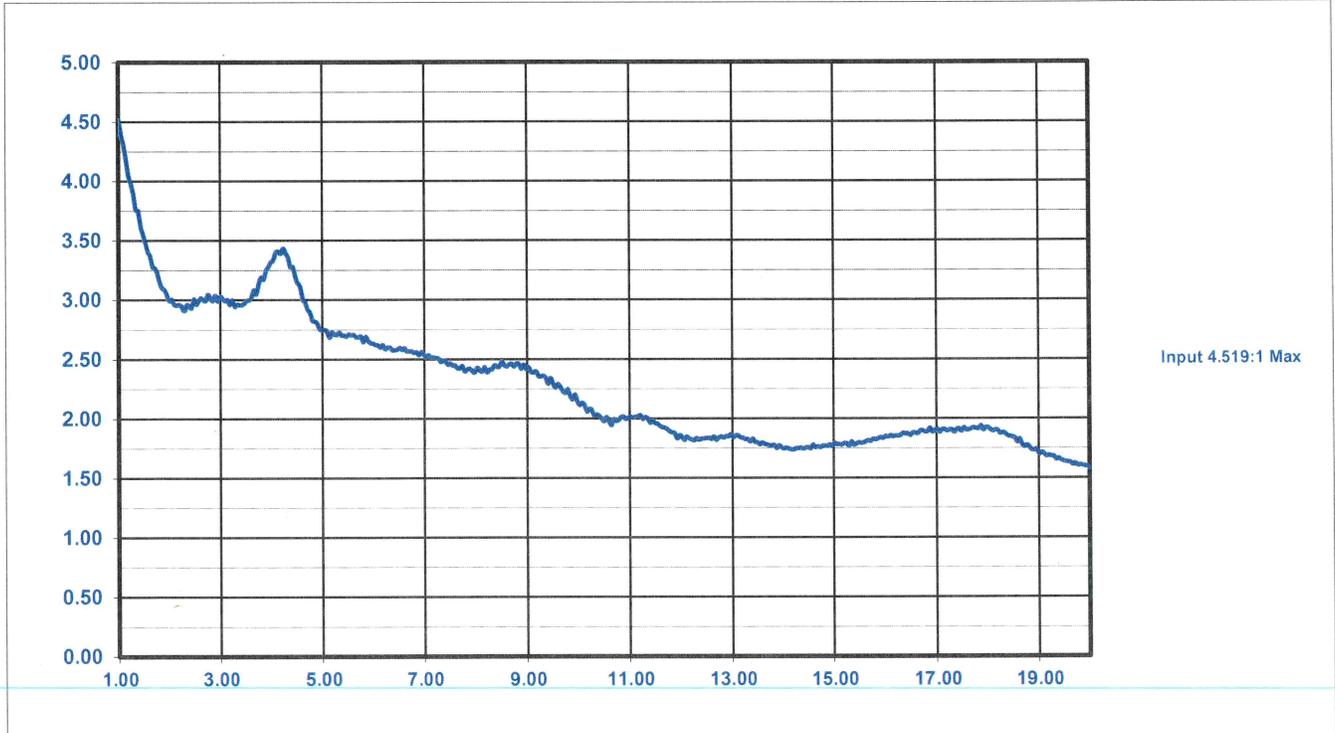




**SUMMARY TEST DATA  
ON  
SDLVA-1G20G-55-12-SFF**

Model Number: SDLVA-1G20G-55-12-SFF  
Serial Number: PL53540

Temperature: +25C

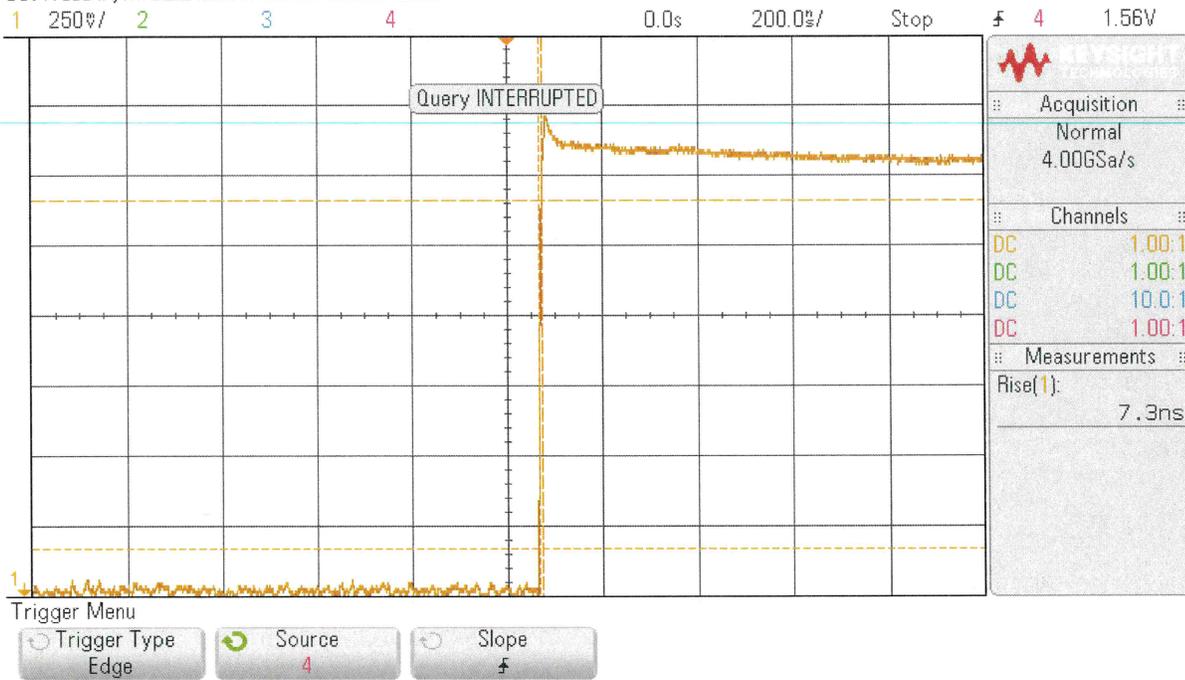




**SUMMARY TEST DATA  
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Rise Time = 7.3 ns

DSO-X 3034A, MY52394003: Fri Jun 20 10:08:24 2025

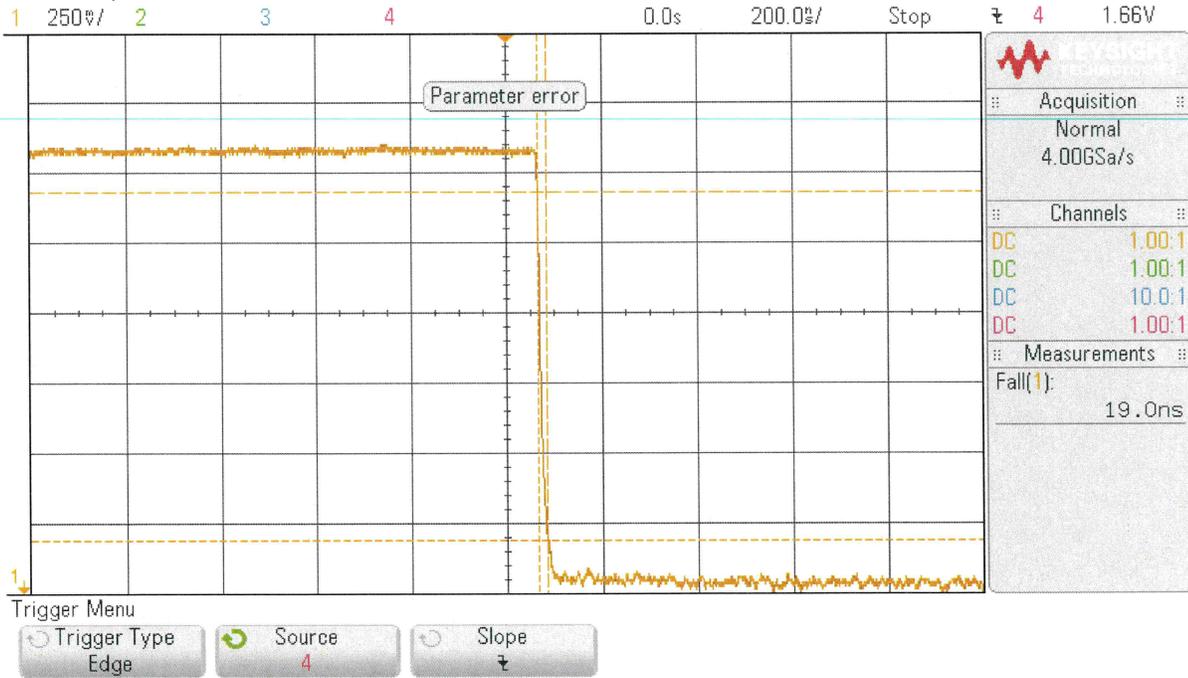




**SUMMARY TEST DATA  
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Fall Time = 19 ns

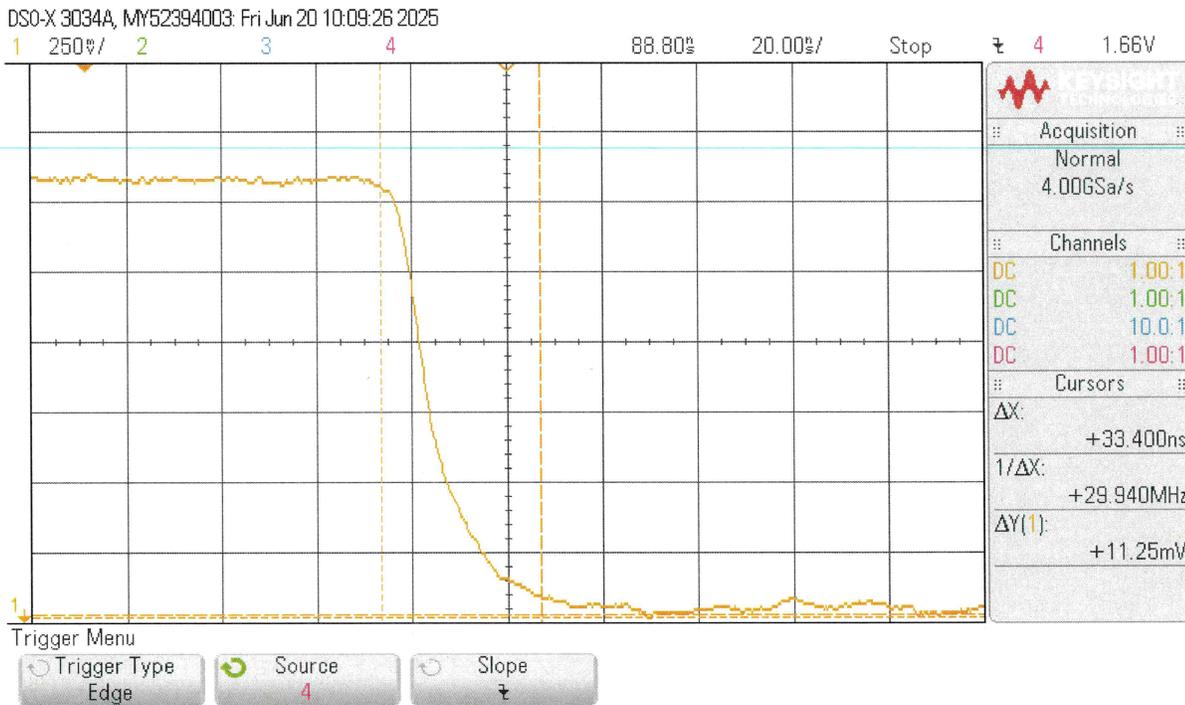
DSO-X 3034A, MY52394003: Fri Jun 20 10:08:29 2025





**SUMMARY TEST DATA  
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Recovery Time = 33.4 ns

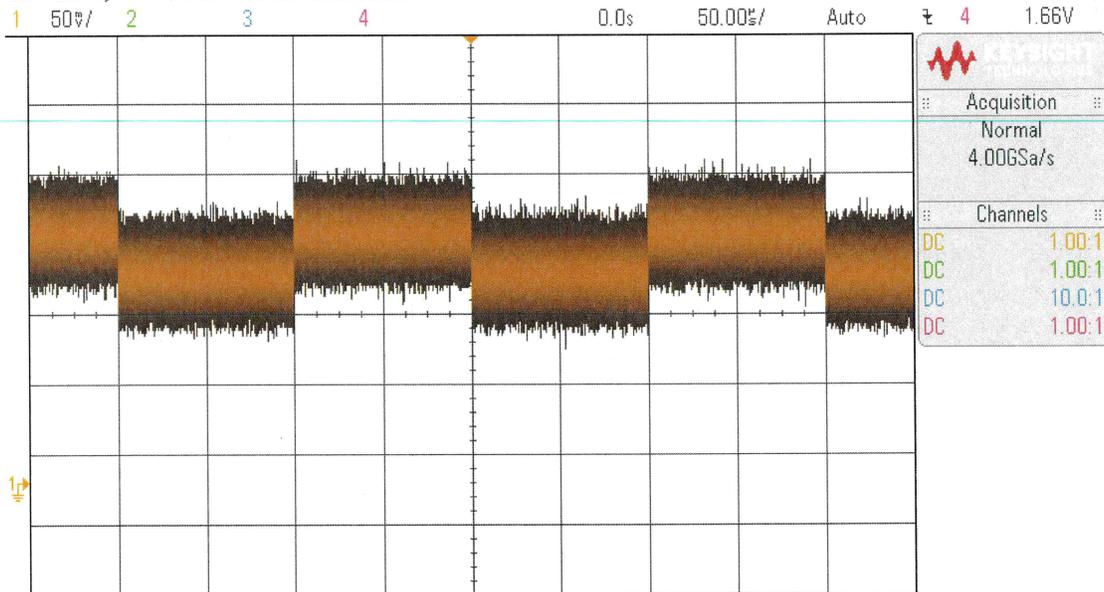




**SUMMARY TEST DATA  
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TSS = -54.7 dBm

DSO-X 3034A, MY52394003: Fri Jun 20 10:08:35 2025



Trigger Menu

Trigger Type Edge Source 4 Slope