

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

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53487/2526

TESTED BY: Jeremy Walker
TEMPERATURE: +25°C (Unless Otherwise Specified)
DATE: 6/25/2025
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	± 2.20 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 2.38 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	1.96:1	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	49.87 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	7.8 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	11.5 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	45.4 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-57.5 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	130mA	Pass

QA/QC Approval:  _____

Date: 6-25-25



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LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 TESTED BY: Jeramy Walker
 DATE: 6/25/2025
 SERIAL NO: PL53487
 Test Temp: +25C

Output Offset(V)= 0.114

Frequency

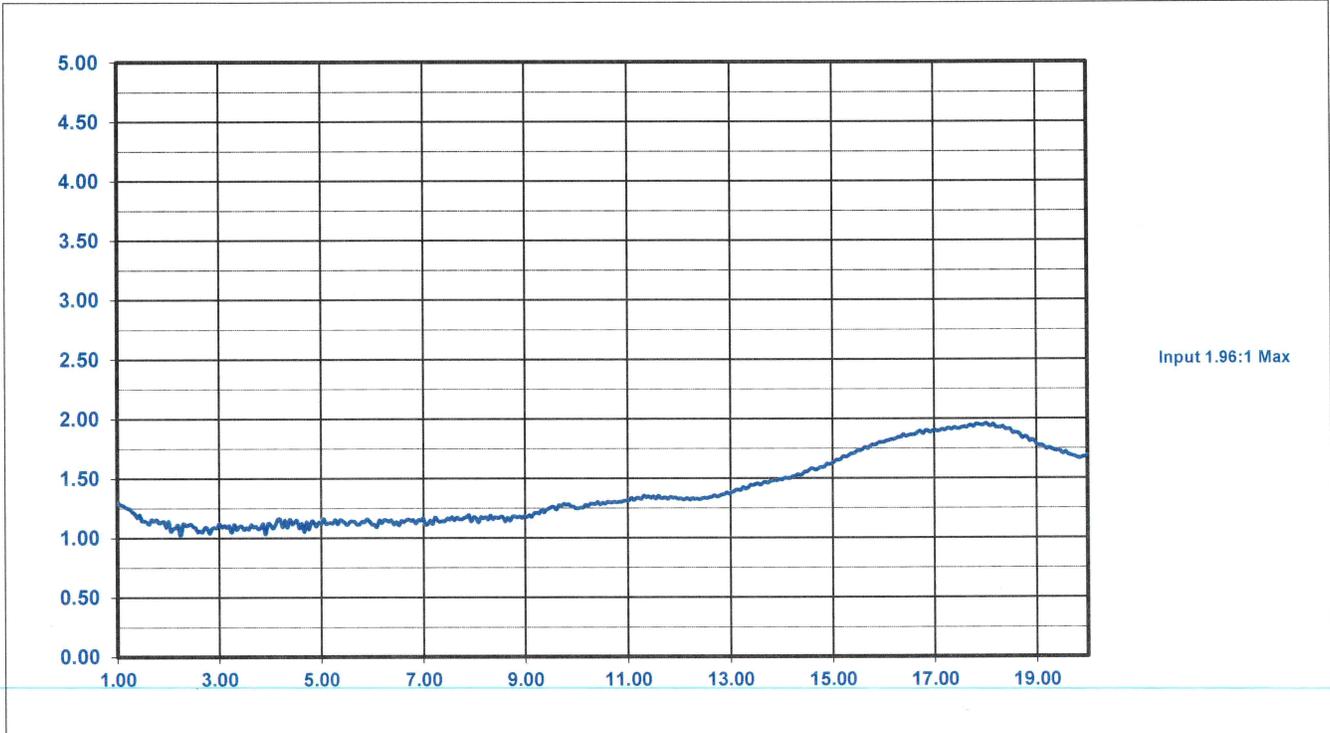
Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
1 GHz	2693	51.7	142	194	324	544	813	1093	1361	1643	1907	2173	2423	2681	2859	2693	-1.54	1.70
4.17 GHz	2763	52.1	150	216	374	617	899	1181	1448	1725	1981	2244	2489	2737	2872	2763	-1.20	1.11
7.33 GHz	2822	51.4	153	228	397	645	922	1190	1454	1726	1979	2237	2479	2727	2865	2822	-2.38	-0.50
10.5 GHz	2740	50.2	165	255	449	700	968	1224	1481	1742	1992	2241	2476	2721	2819	2740	-0.61	0.53
13.66 GHz	2714	48.6	179	293	502	749	1017	1255	1510	1762	1993	2237	2455	2691	2767	2714	-0.52	0.41
16.83 GHz	2695	47.8	186	309	529	766	1034	1258	1507	1756	1982	2228	2439	2684	2819	2695	-0.36	0.35
20 GHz	2665	47.3	187	308	519	748	1015	1239	1503	1746	1957	2209	2403	2646	2800	2665	-0.55	0.57
Flatness +/-dB																+/-	2.20	FLATNESS ERROR (dB)
Slope Avg(mv/dB)																49.9		



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Serial Number: PL53487

Temperature: +25C

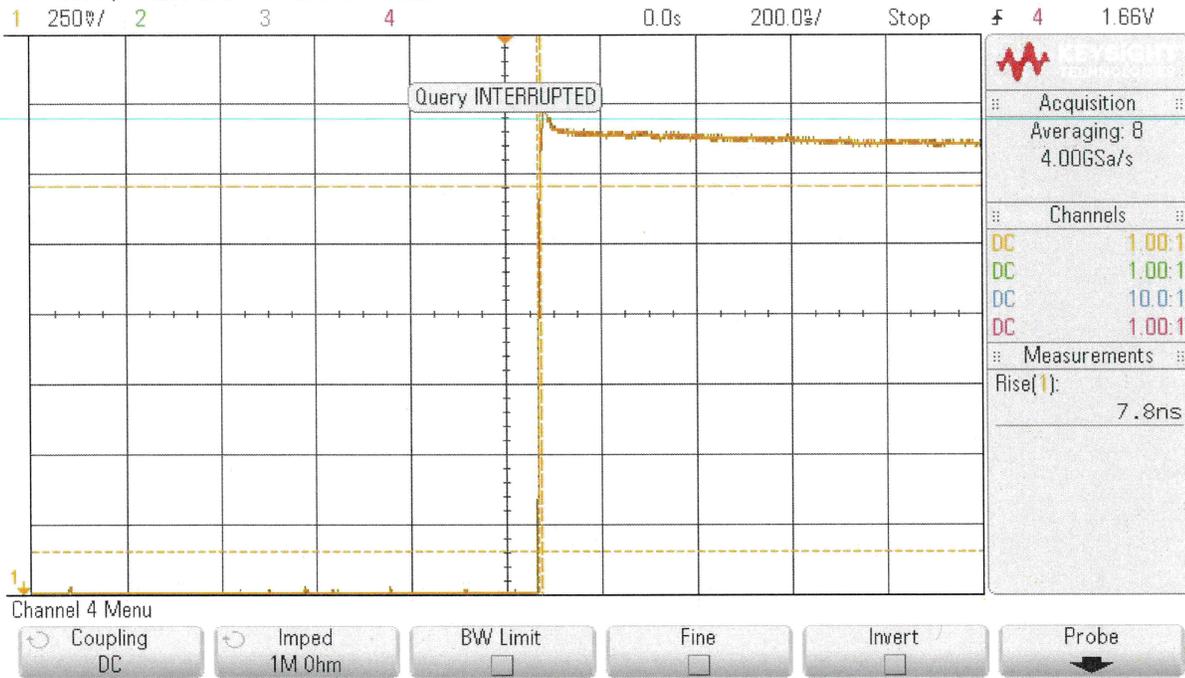




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Rise Time = 7.8 ns

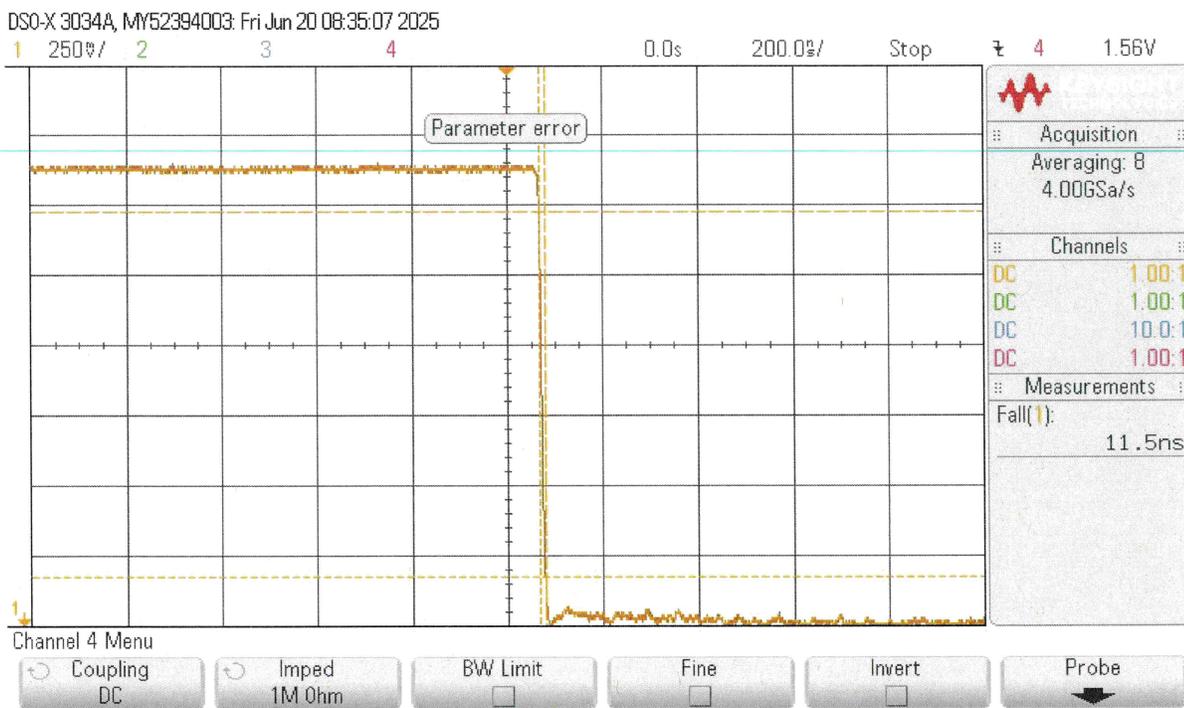
DSO-X 3034A, MY52394003: Fri Jun 20 08:34:56 2025





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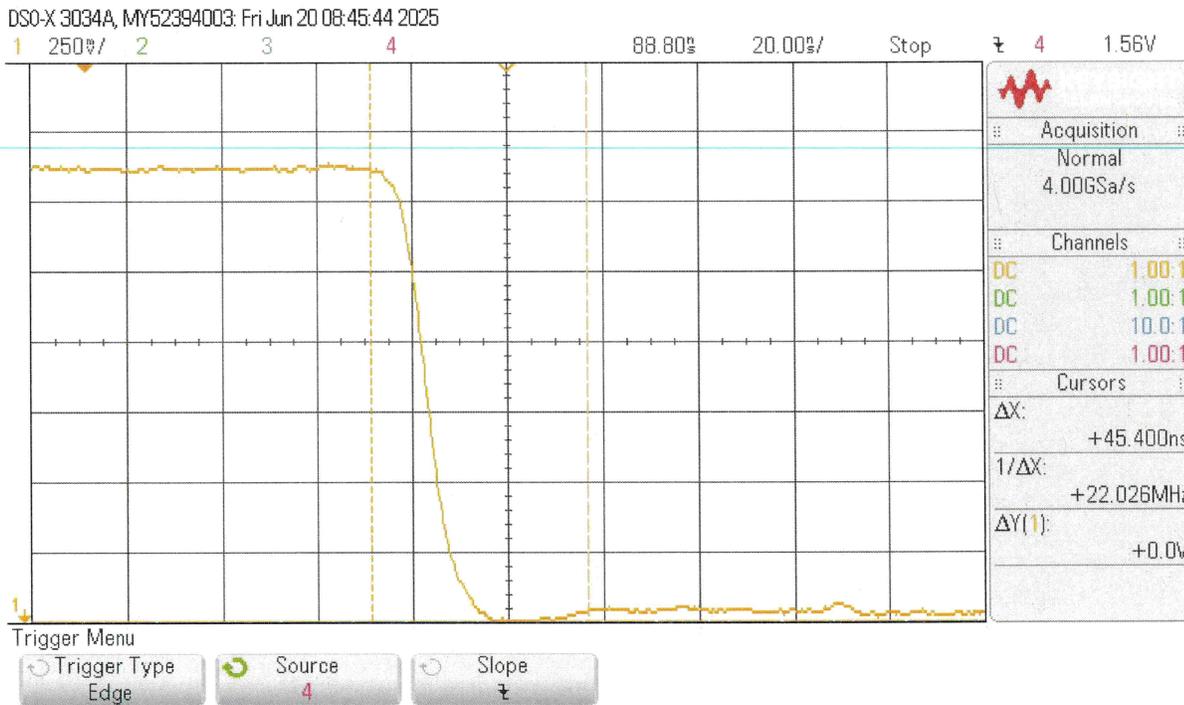
Fall Time = 11.5 ns





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Recovery Time = 45.4 ns





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TSS = -57.5 dBm

