

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

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53536/2526

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)	± 2.31 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	4.4:1	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	51.88 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%)	13.3 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	23.4 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-58.1 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	120mA	Pass

QA/QC Approval:  PMI QAS

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: PL53536
 Test Temp: +25C

Output Offset(V)= 0.192

Frequency

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	2928	53.9	228	295	450	701	994	1291	1573	1857	2127	2398	2646	2883	2977
1 GHz					265	62	-52	-71	-47	-20	-8	7	7	9	-13	-45	-221
					4.91	1.15	-0.97	-1.32	-0.88	-0.37	-0.14	0.13	0.14	0.17	-0.23	-0.84	-4.09
					x												
4.17 GHz	INTERCEPT (mV)	SLOPE (mV/dB)	2983	54.3	233	307	486	755	1061	1359	1635	1913	2184	2450	2711	2920	2968
					235	38	-54	-57	-22	4	9	16	15	10	0	-63	-286
					4.33	0.70	-1.00	-1.05	-0.41	0.08	0.17	0.29	0.28	0.18	-0.01	-1.16	-5.27
					x												
7.33 GHz	INTERCEPT (mV)	SLOPE (mV/dB)	3031	53.5	238	321	513	787	1085	1368	1643	1915	2184	2447	2701	2908	2938
					148	-36	-112	-105	-75	-59	-51	-47	-45	-50	-63	-123	-361
					2.77	-0.68	-2.09	-1.97	-1.40	-1.10	-0.96	-0.87	-0.84	-0.93	-1.18	-2.31	-6.74
					x												
10.5 GHz	INTERCEPT (mV)	SLOPE (mV/dB)	2939	52.0	246	345	560	834	1118	1391	1654	1919	2184	2440	2683	2874	2908
					168	7	-38	-24	0	13	16	20	25	21	4	-65	-291
					3.24	0.14	-0.73	-0.46	0.00	0.25	0.30	0.39	0.49	0.41	0.08	-1.25	-5.60
					x												
13.66 GHz	INTERCEPT (mV)	SLOPE (mV/dB)	2920	50.3	268	396	629	894	1175	1428	1694	1944	2192	2436	2679	2853	2882
					114	-10	-28	-15	15	16	31	30	26	19	10	-67	-290
					2.26	-0.19	-0.56	-0.29	0.30	0.33	0.62	0.59	0.52	0.37	0.20	-1.34	-5.76
					x												
16.83 GHz	INTERCEPT (mV)	SLOPE (mV/dB)	2889	49.7	267	396	630	886	1166	1408	1669	1913	2162	2411	2637	2845	2947
					113	-7	-21	-14	17	11	23	19	19	19	-3	-44	-190
					2.27	-0.14	-0.43	-0.28	0.35	0.22	0.47	0.37	0.38	0.39	-0.06	-0.88	-3.83
					x												
20 GHz	INTERCEPT (mV)	SLOPE (mV/dB)	2845	49.5	260	376	595	841	1121	1364	1635	1878	2109	2368	2580	2816	2938
					136	4	-24	-25	7	3	26	22	6	17	-18	-29	-155
					2.74	0.09	-0.49	-0.52	0.14	0.06	0.53	0.45	0.11	0.35	-0.37	-0.60	-3.13
					x												
	Flatness +/-dB				0.4	1.0	1.7	1.9	1.7	1.3	1.2	0.8	0.8	0.8	1.3	1.0	0.9
	Slope Avg(mv/dB)																

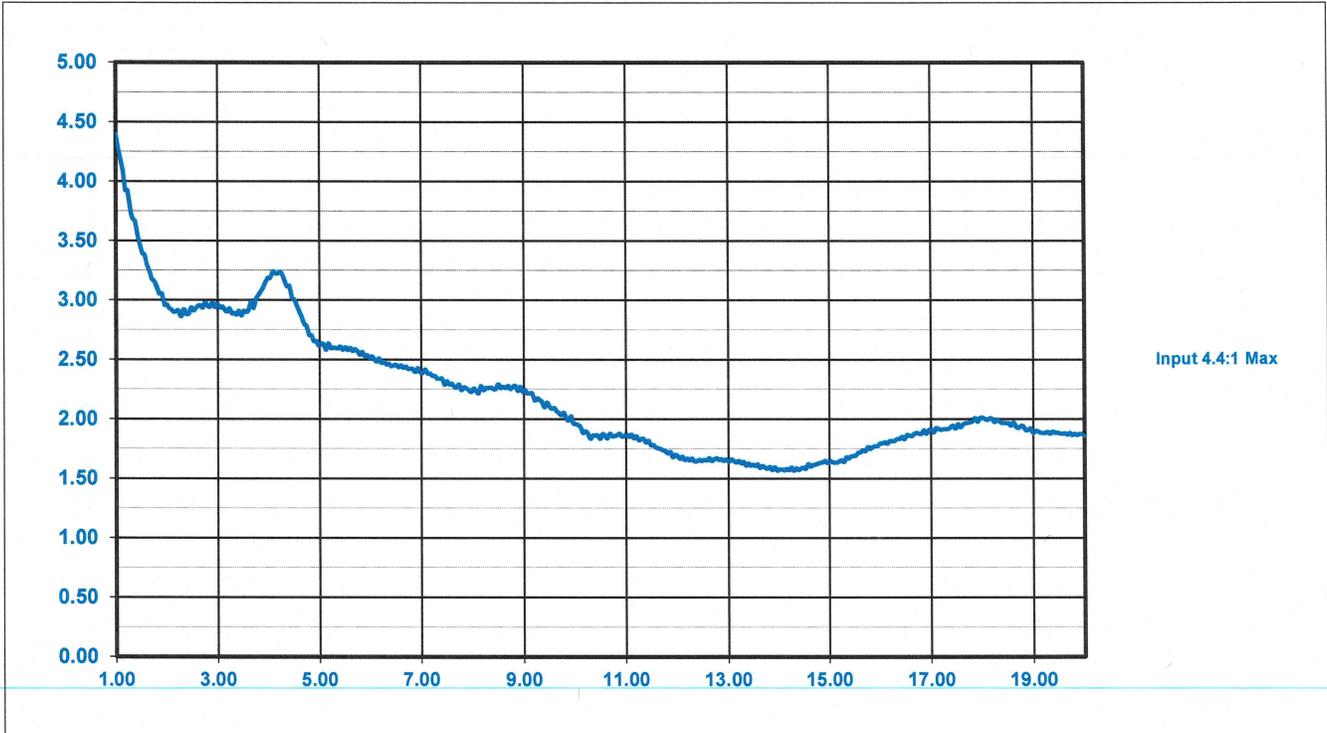
Slope Avg(mv/dB) 51.9



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

Model Number: SDLVA-1G20G-55-12-SFF
Serial Number: PL53536

Temperature: +25C

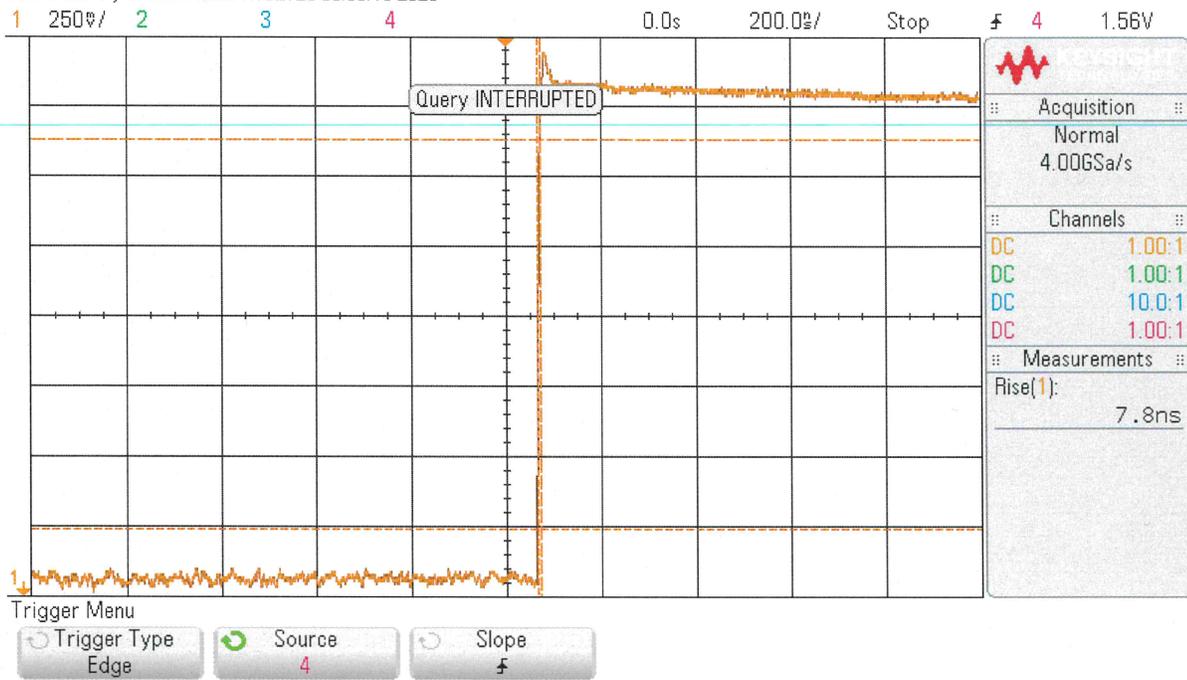




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Rise Time = 7.8 ns

DSO-X 3034A, MY52394003: Fri Jun 20 09:30:15 2025



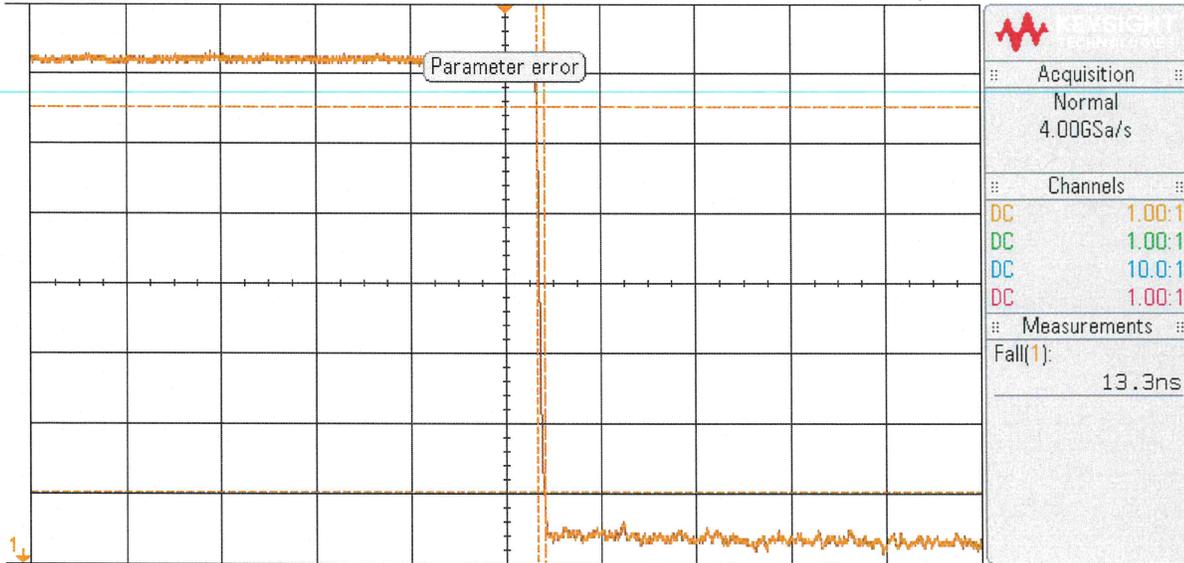


**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Fall Time = 13.3 ns

DSO-X 3034A, MY52394003: Fri Jun 20 09:30:21 2025

1 250% / 2 3 4 0.0s 200.0% / Stop ∇ 4 1.66V



Trigger Menu

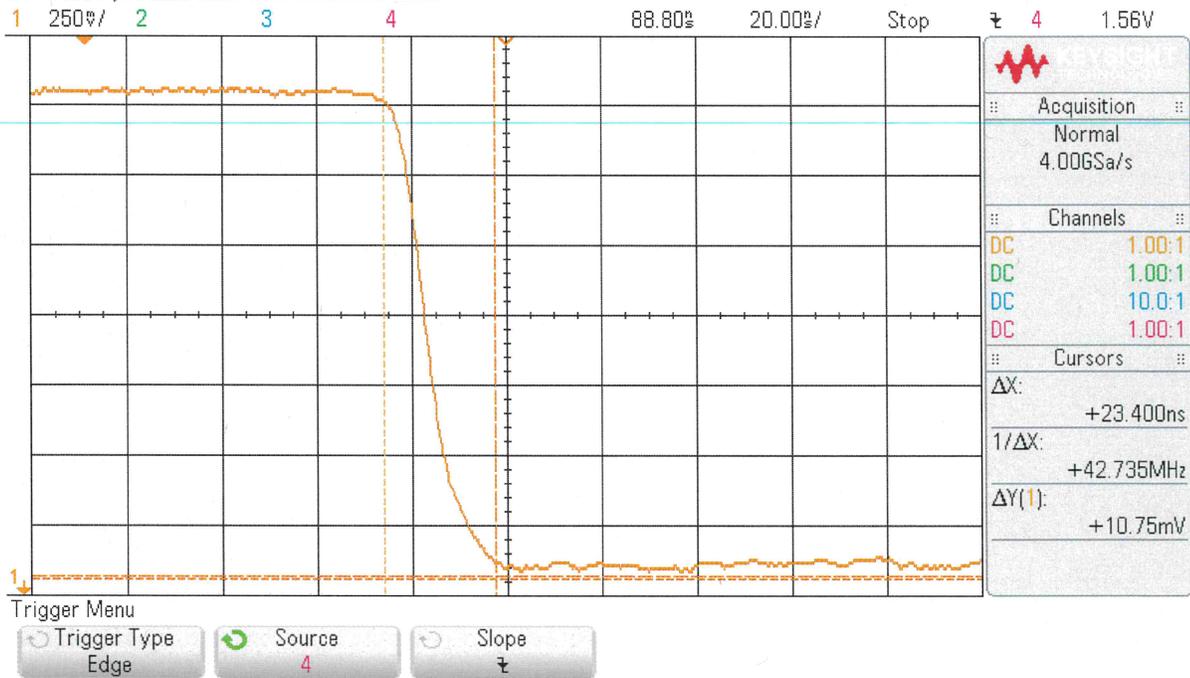
Trigger Type: Edge
Source: 4
Slope: ∇



**SUMMARY TEST DATA
ON
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Recovery Time = 23.4 ns

DSO-X 3034A, MY52394003: Fri Jun 20 09:31:07 2025

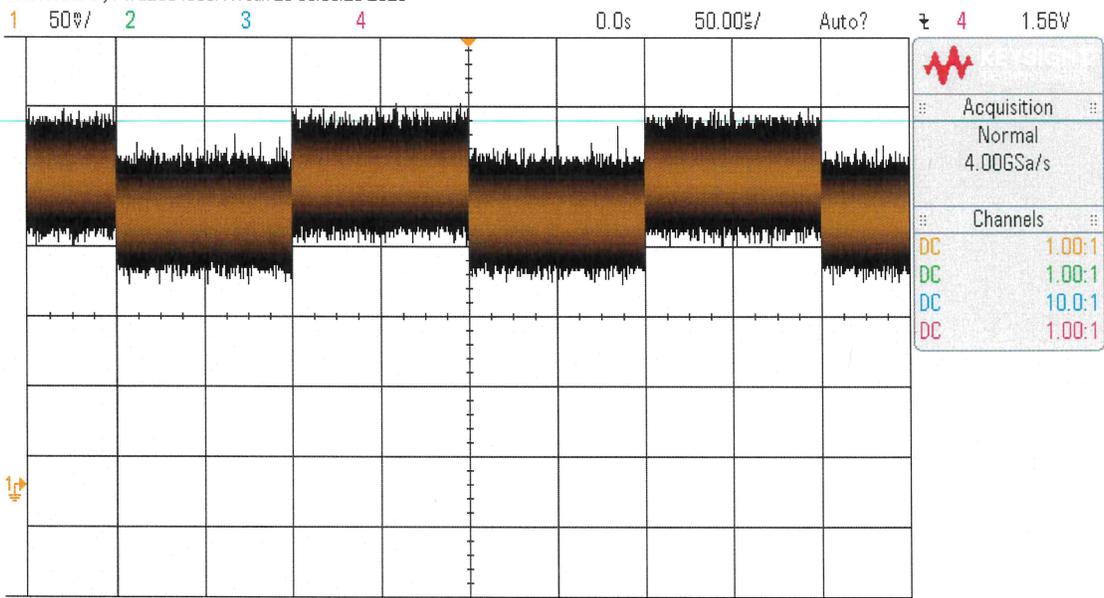




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

TSS = -58.1 dBm

DSO-X 3034A, MY52394003: Fri Jun 20 09:30:29 2025



Trigger Menu

Trigger Type: Edge
Source: 4
Slope: ∇