

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

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53494/2526

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	± 1.90 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 1.71 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	4.365:1	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	49.91 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	7 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	9.5 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	36.6 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-59.8 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	130mA	Pass

QA/QC Approval:  K. Hanning

Date: 6.25.25



PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway, Suite 1
 El Dorado Hills, CA 95762
 Phone: 916-542-1401 Fax: 301-662-1731
 Email: sales@pmi-rf.com/www.pmi-rf.com

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 TESTED BY: Jeremy Walker
 DATE: 6/25/2025
 SERIAL NO: PL53494
 Test Temp: +25C

Output Offset(V)= 0.133

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	2776	52.5	170	235	383	607	870	1145	1419	1703	1981	2261	2521	2750	2870	-1.33	1.59	LINEARITY ERROR (dB)
4.17 GHz	2813	52.7	173	243	404	641	918	1200	1469	1743	2021	2296	2567	2768	2841	-1.21	1.24	LINEARITY ERROR (dB)
7.33 GHz	2813	51.5	177	253	420	664	936	1202	1464	1734	2009	2277	2535	2726	2780	-1.71	0.32	LINEARITY ERROR (dB)
10.5 GHz	2726	49.7	184	271	459	706	968	1220	1468	1726	1993	2252	2495	2673	2754	-1.07	0.62	LINEARITY ERROR (dB)
13.66 GHz	2699	47.9	201	312	516	764	1018	1258	1502	1755	1997	2246	2483	2630	2710	-1.44	0.55	LINEARITY ERROR (dB)
16.83 GHz	2671	47.6	197	303	510	752	999	1233	1468	1722	1966	2215	2446	2631	2761	-0.84	0.43	LINEARITY ERROR (dB)
20 GHz	2614	47.3	186	276	461	696	937	1174	1414	1672	1904	2154	2378	2589	2731	-0.53	0.62	LINEARITY ERROR (dB)
Flatness +/-dB																+/-	1.90	FLATNESS ERROR (dB)

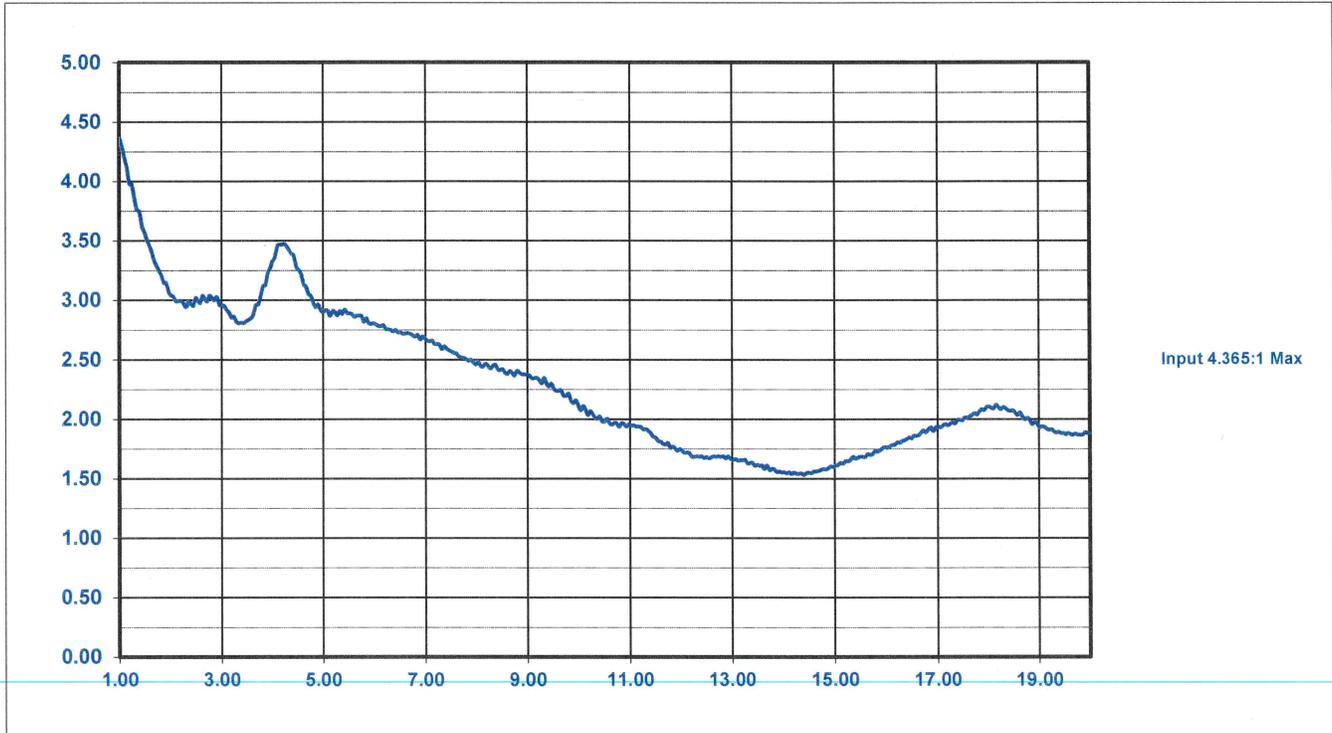
Slope Avg(mv/dB) 49.9



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Model Number: SDLVA-1G20G-55-12-SFF
Serial Number: PL53494

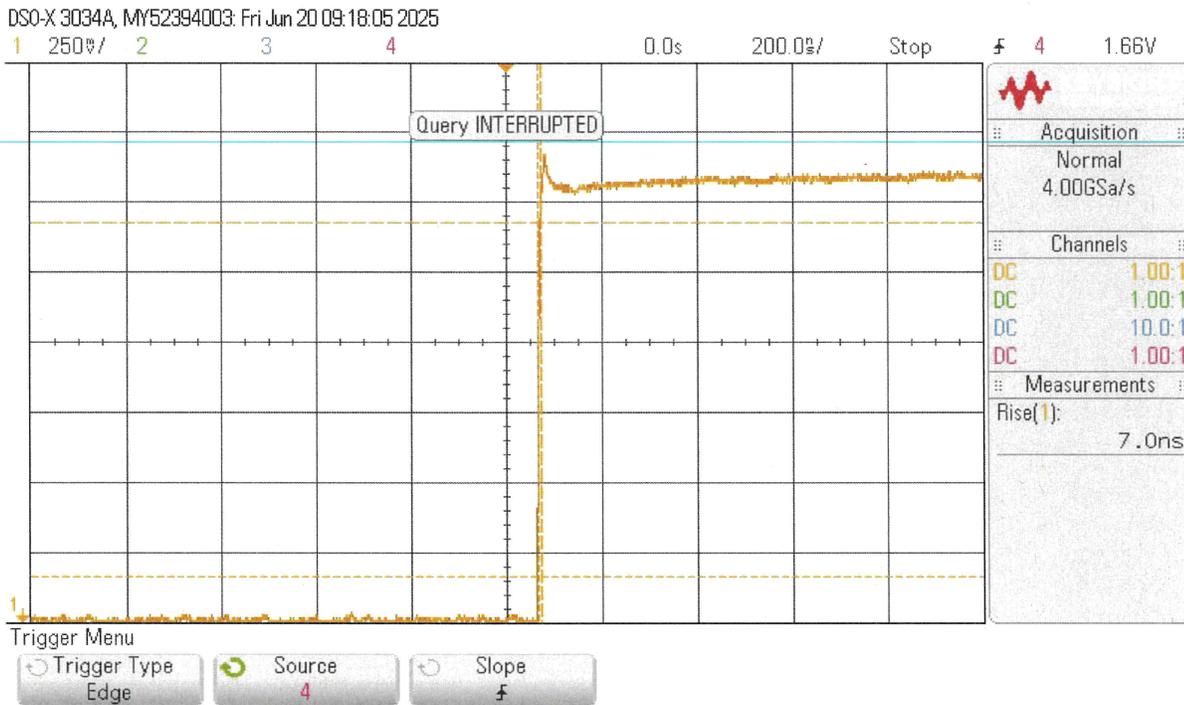
Temperature: +25C





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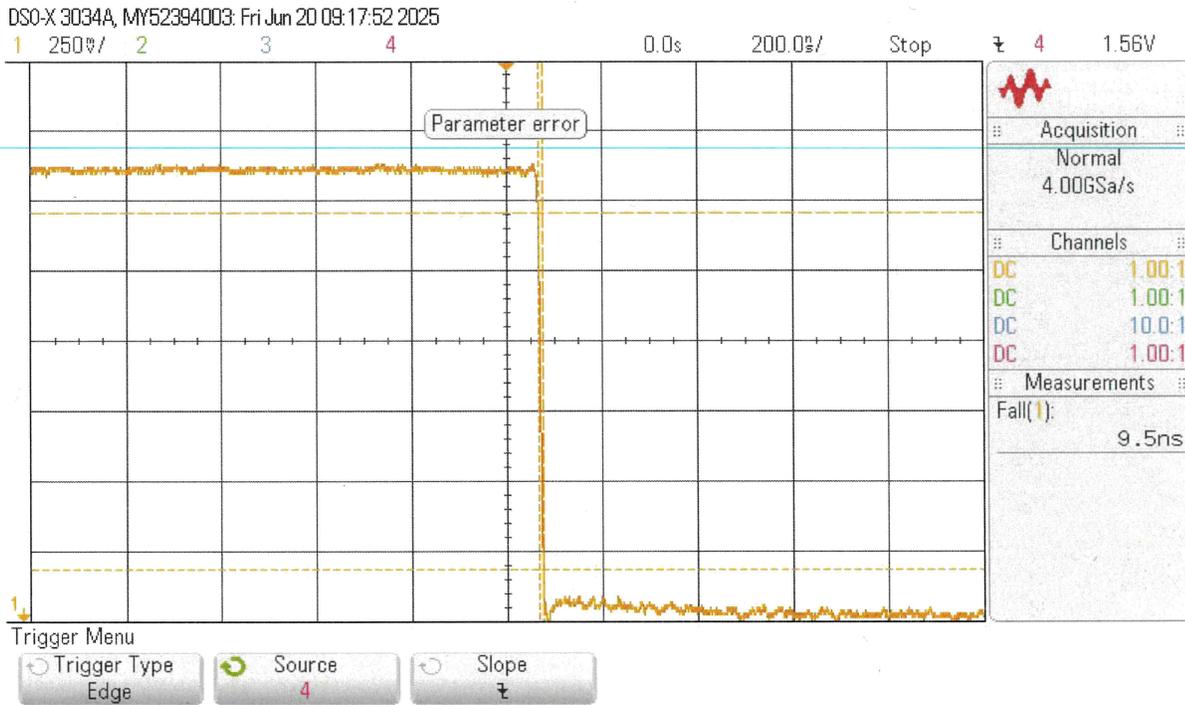
Rise Time = 7 ns





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Fall Time = 9.5 ns

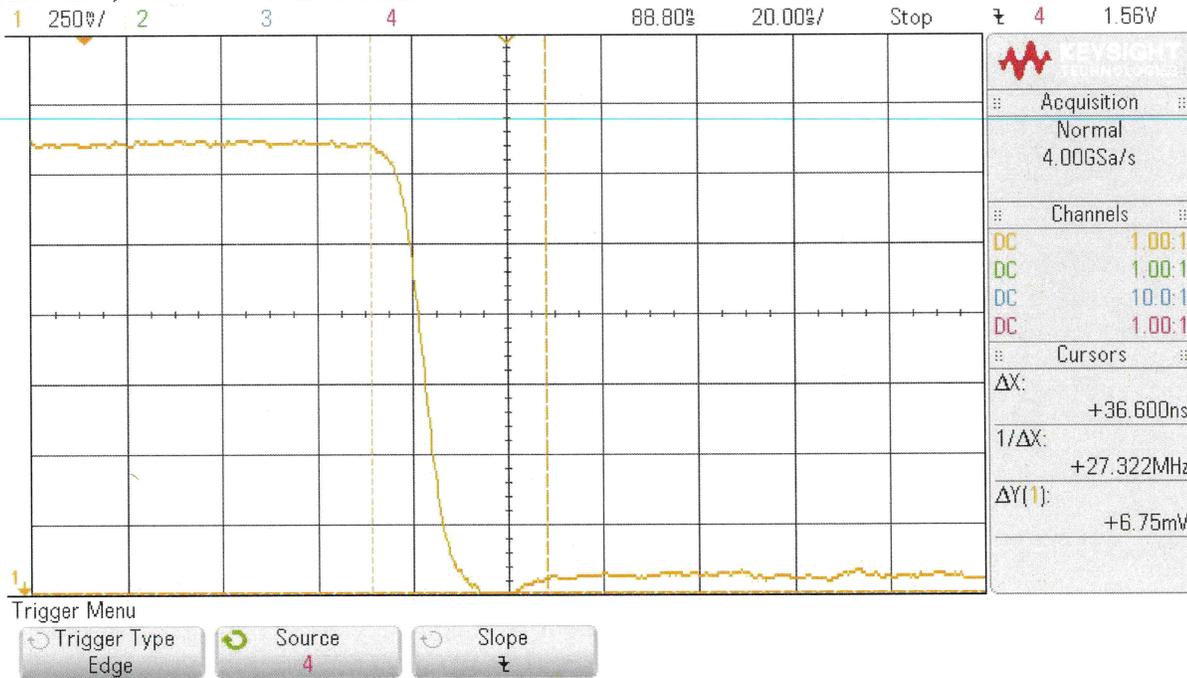




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Recovery Time = 36.6 ns

DSO-X 3034A, MY52394003: Fri Jun 20 09:19:08 2025

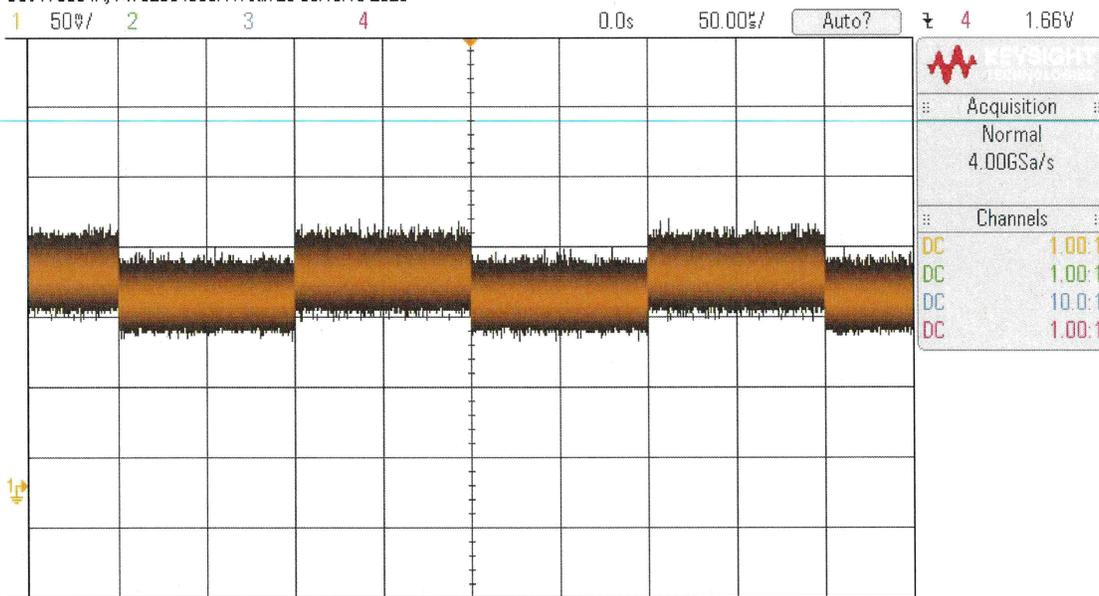




**SUMMARY TEST DATA
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TSS = -59.8 dBm

DSO-X 3034A, MY52394003, Fri Jun 20 09:18:15 2025



Trigger Menu

Trigger Type: Edge
Source: 4
Slope: \uparrow