

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

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53234/2525

TESTED BY: Joshua Monley
TEMPERATURE: +25°C (Unless Otherwise Specified)
DATE: 6/12/2025
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	± 2.00 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 1.77 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	4.174:1	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	50.00 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	6.8 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	9 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	28.6 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-58.9 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	110mA	Pass

QA/QC Approval:  K. Hancock

Date: 6-17-25



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LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 TESTED BY: Joshua Monley
 DATE: 6/12/2025
 SERIAL NO: PL53234
 Test Temp: +25C

Output Offset(V)= 0.226

Frequency

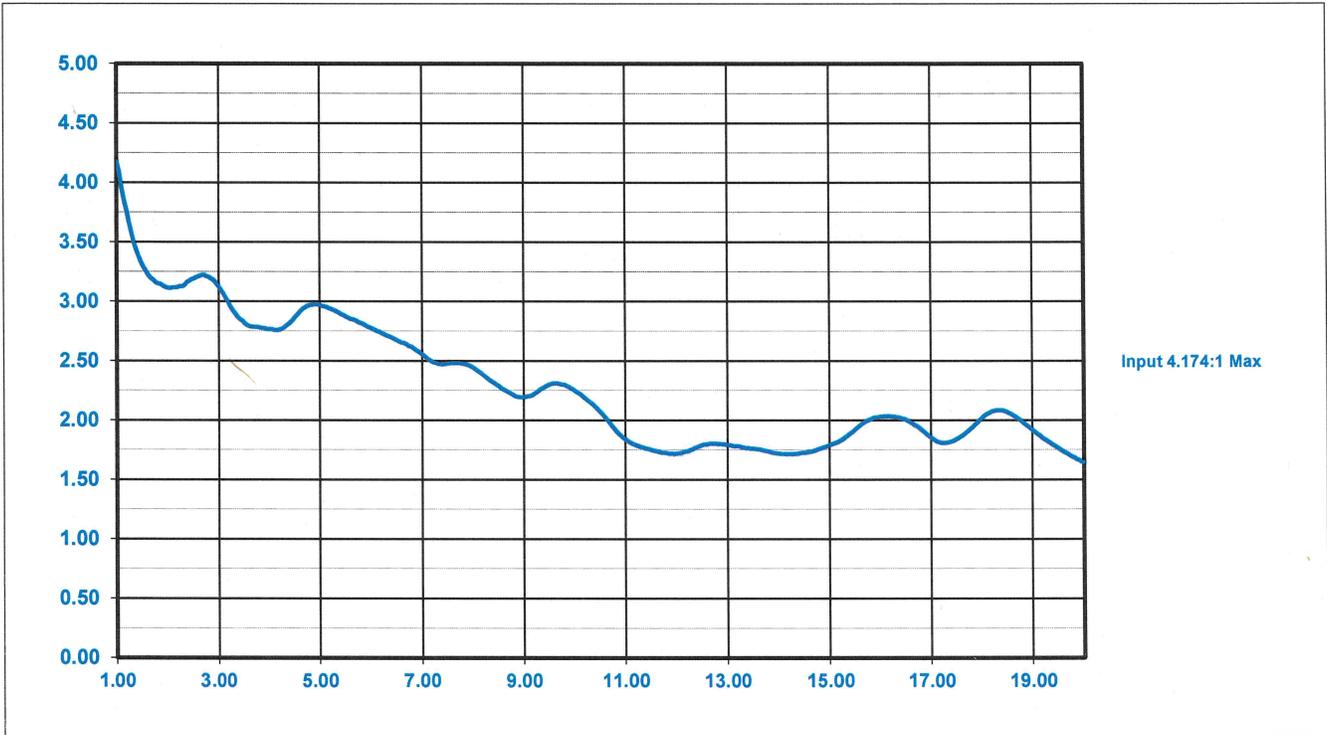
Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	2866	52.3	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
1 GHz	2866	52.3	263	329	478	704	971	1244	1525	1806	2079	2354	2606	2833	2938	-1.34	1.49	-1.34	1.49	1.49	LINEARITY ERROR (dB)
4.17 GHz	2911	52.5	267	343	504	745	1025	1302	1585	1858	2128	2398	2654	2859	2925	-1.21	1.14	-1.21	1.14	1.14	LINEARITY ERROR (dB)
7.33 GHz	2918	51.6	270	350	517	764	1042	1305	1578	1850	2113	2380	2622	2832	2889	-1.77	0.20	-1.77	0.20	0.20	LINEARITY ERROR (dB)
10.5 GHz	2870	50.2	286	388	576	826	1096	1348	1615	1878	2130	2389	2635	2805	2841	-0.72	0.56	-0.72	0.56	0.56	LINEARITY ERROR (dB)
13.66 GHz	2850	48.5	305	433	641	885	1149	1387	1646	1901	2136	2387	2620	2791	2854	-0.51	0.46	-0.51	0.46	0.46	LINEARITY ERROR (dB)
16.83 GHz	2834	47.7	319	460	663	900	1172	1399	1659	1903	2119	2372	2592	2797	2903	-0.57	0.48	-0.57	0.48	0.48	LINEARITY ERROR (dB)
20 GHz	2809	47.2	318	459	664	892	1161	1385	1650	1885	2101	2352	2561	2782	2891	-0.61	0.44	-0.61	0.44	0.44	LINEARITY ERROR (dB)
Flatness +/-dB																			+/- 2.00	FLATNESS ERROR (dB)	
Slope Avg(mv/dB)																			50.0	SLOPE ERROR (dB)	



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Serial Number: PL53234

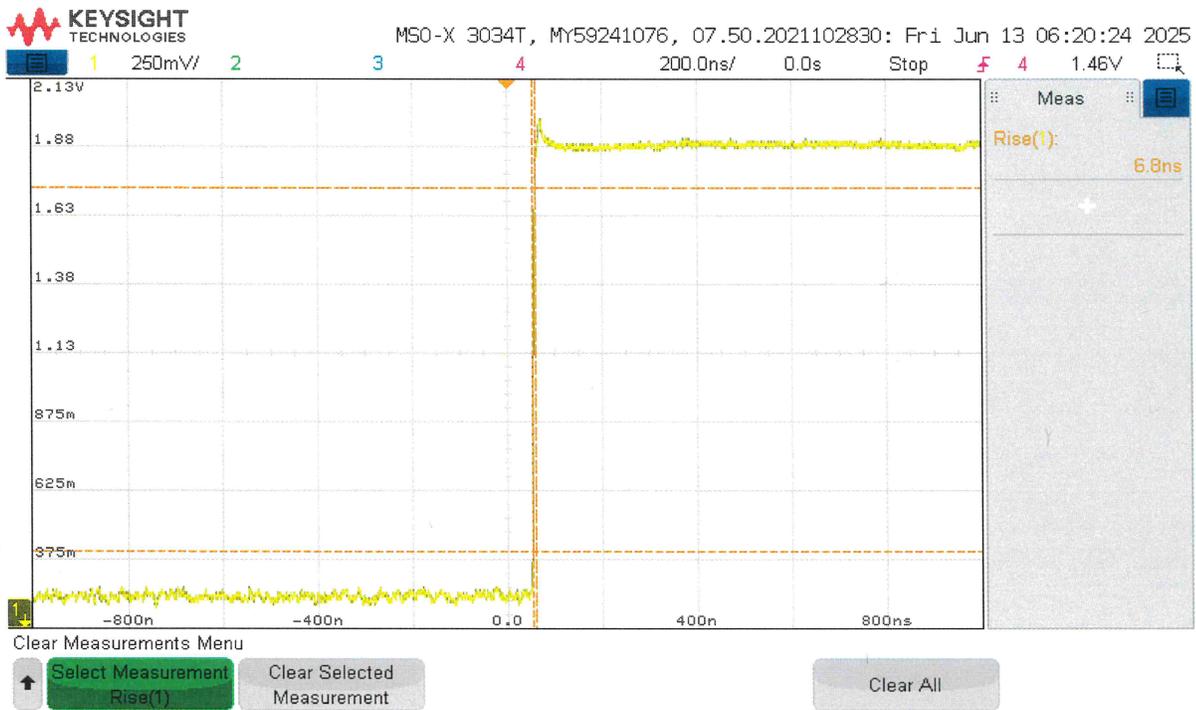
Temperature: +25C





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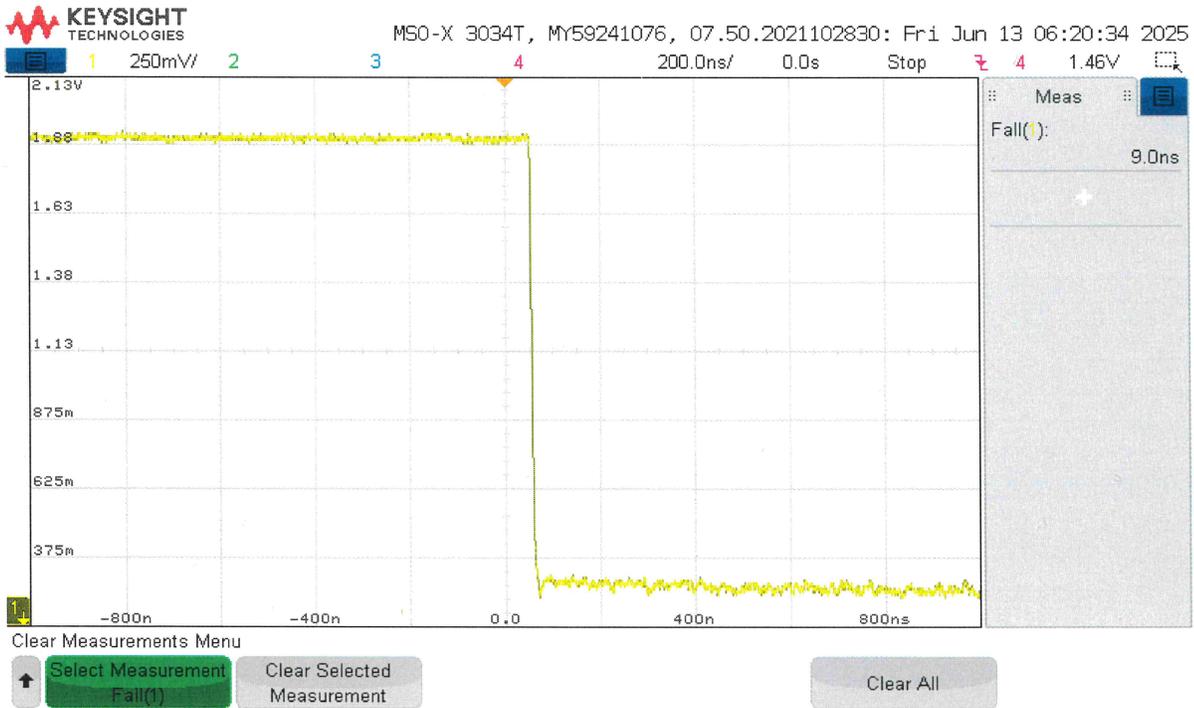
Rise Time = 6.8 ns





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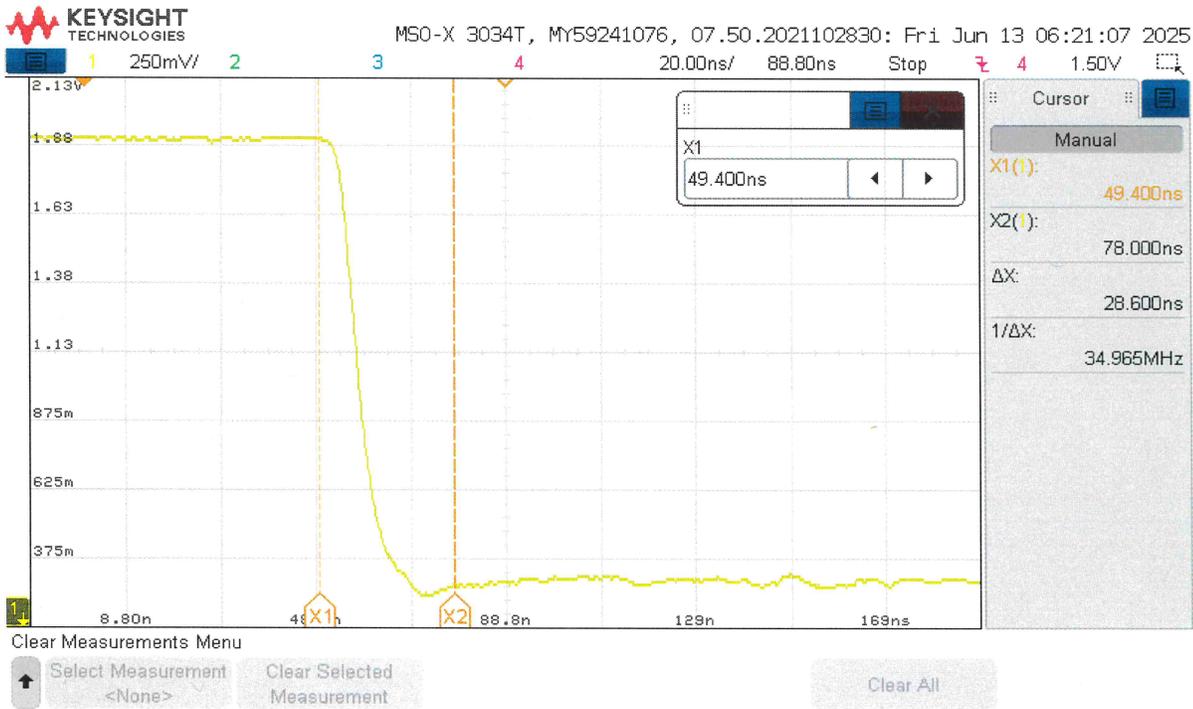
Fall Time = 9 ns





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Recovery Time = 28.6 ns





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TSS = -58.9 dBm

