

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

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53543/2526

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	± 1.80 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 2.08 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	4.471:1	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	49.60 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)	34 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-54.8 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	120mA	Pass

QA/QC Approval:  PMI QA3

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: 6/24/2025
 SERIAL NO: PL53543
 Test Temp: +25C

Output Offset(V)= 0.205

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	2726	51.3	221	257	366	587	857	1133	1406	1687	1953	2218	2461	2696	2795	221	-1.71	1.86
4.17 GHz	2783	51.8	222	261	392	639	922	1197	1466	1742	2009	2269	2527	2734	2783	222	-1.35	1.36
7.33 GHz	2821	51.1	226	273	418	671	944	1207	1473	1745	2011	2269	2517	2720	2750	226	-2.08	0.13
10.5 GHz	2735	49.7	232	289	457	709	969	1221	1477	1742	2003	2254	2494	2684	2720	232	-1.02	0.81
13.66 GHz	2717	48.2	244	327	517	762	1014	1255	1516	1769	2009	2250	2487	2662	2699	244	-1.14	0.44
16.83 GHz	2690	47.7	245	328	521	758	1009	1236	1492	1742	1984	2229	2452	2657	2765	245	-0.69	0.49
20 GHz	2636	47.3	239	309	478	705	954	1181	1445	1698	1920	2177	2387	2617	2753	239	-0.79	0.84
Flatness +/-dB																+/-	1.80	FLATNESS ERROR (dB)

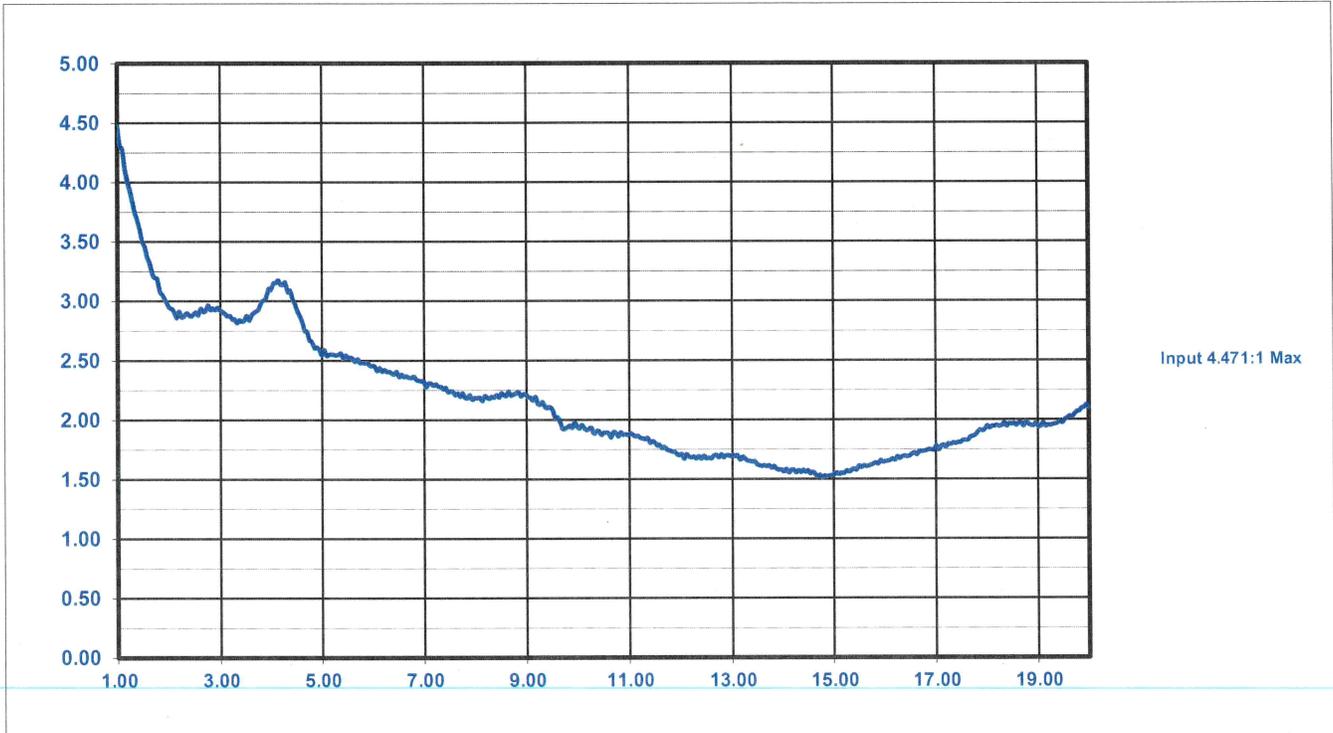
Slope Avg(mv/dB) 49.6



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

Model Number: SDLVA-1G20G-55-12-SFF
Serial Number: PL53543

Temperature: +25C





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

Rise Time = 7.3 ns

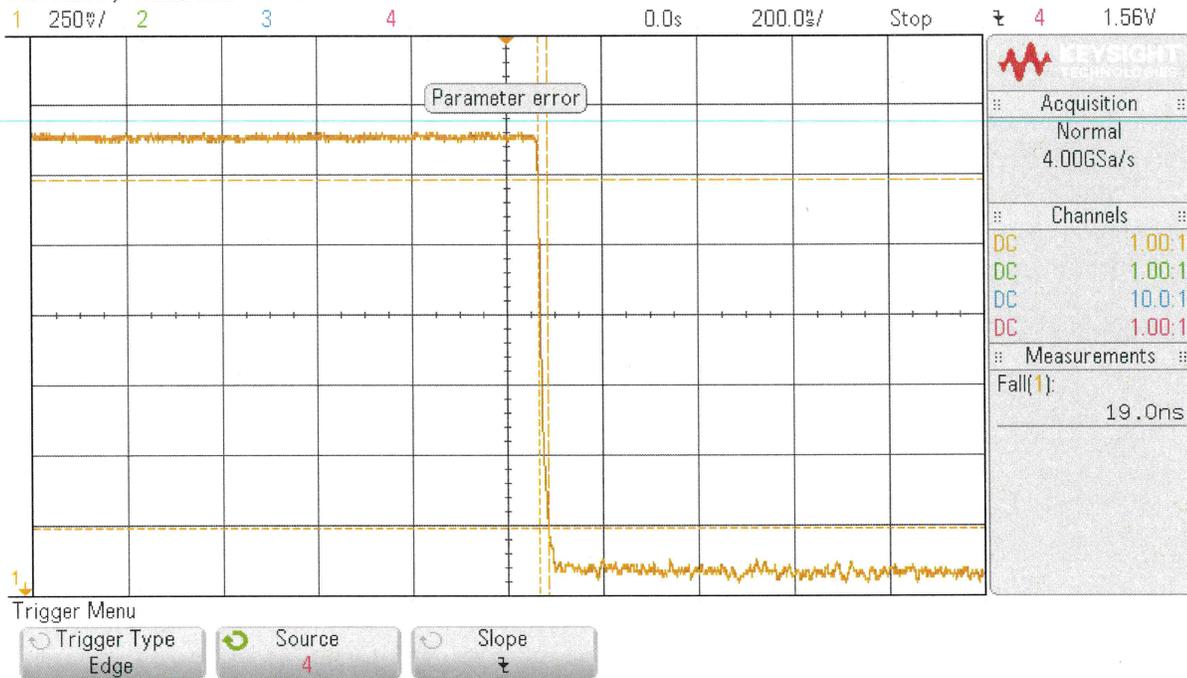




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Fall Time = 19 ns

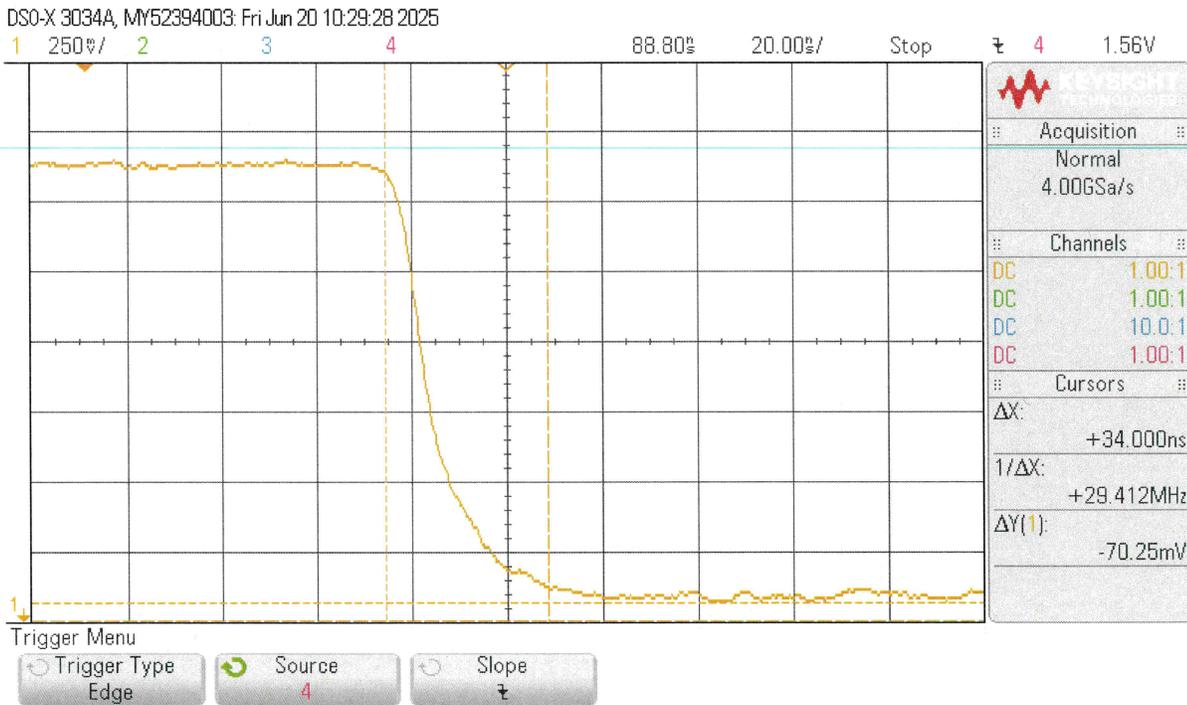
DSO-X 3034A, MY52394003: Fri Jun 20 10:28:37 2025





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

Recovery Time = 34 ns





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

TSS = -54.8 dBm

