



**SUMMARY TEST DATA  
ON  
SDLVA-1G20G-58-12-SFF**

**PL41404/2330**

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL41404/2330

Tested By: M. Ayala Sign: \_\_\_\_\_  
 Temperature: +25°C Sign: \_\_\_\_\_  
 Date: 07/27/2023  
 Drawing No: 27612160 Rev: A3

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST MEAS.	TEST RESULT	QA QC
1	Frequency Range	1 GHz – 20 GHz	-	1 GHz to 20 GHz	PMI QAS
2	Frequency Flatness	±2.0 dB Typ.	See Plot	±0.5 dB	
3	Log Linearity	±1.0 dB Typ. (-50 to 0 dBm)	See Plot	±1.8 dB Max ±1.4 dB Avg	
4	Log Linearity Over Temp	±1.0 dB Typ. (-50 to 0 dBm @ -55°C to +85°C)	-	Pass	
5	Logging Range	-54 to +5 dBm	-	-50 to +5 dBm	
6	Input VSWR	3.0:1 Typ.	See Plot	3.84:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.953 V to 1.702 V	
8	Slope	14 mV / dB Typ.	See Plot	14.8 mV/dB	
9	Rise Time	5 ns Typ. (Pin = -20 dBm @ 10% to 90%)	See Plot	3.9 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	15.5 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	< 32.3 ns	
12	Propagation Delay	14 ns Typ.	By Design	Pass	
13	TSS	-60 dBm Typ.	See Plot	-56 dBm	
14	Power Supply	+12 V @ 100 mA Typ.	-	94 mA	

QA/QC Approval: *K. Hunter* Date: 7.27.23



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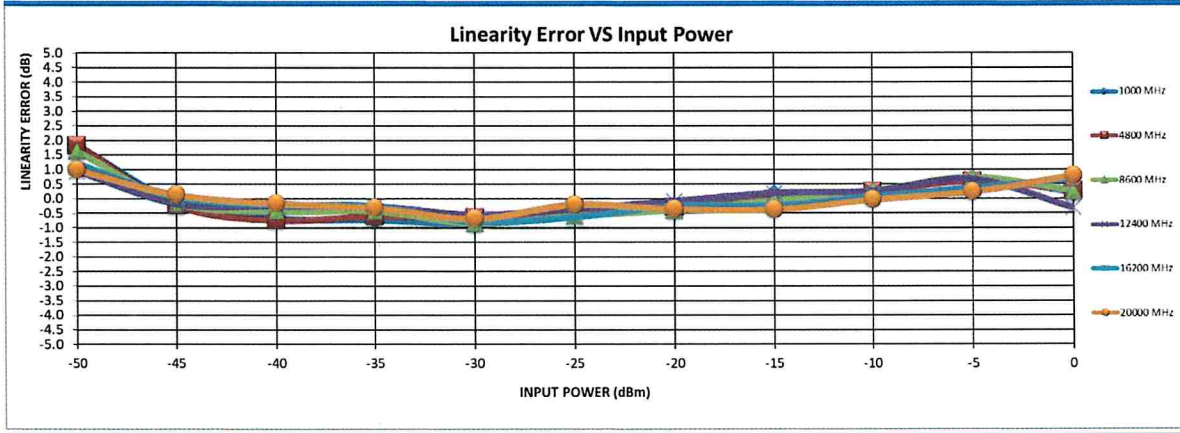
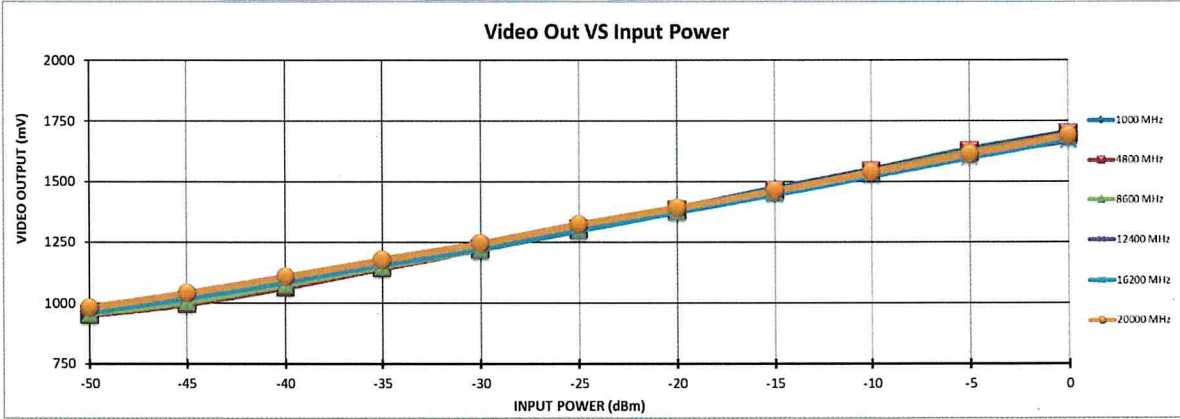
## Transfer Response at 25°C

**LOG TRANSFER VS FREQUENCY**  
 MODEL: SDLVA-1G20G-58-12-SFF  
 TESTED BY: M. Ayala  
 DATE: 07/25/2023  
 SERIAL NO: PL41404

Test Temp: +25C

Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	1698.7											Measured Value (mV)
	SLOPE (mV/dB)	15.4											Error (mV)
		959	1006	1074	1160	1225	1308	1388	1471	1548	1632	1702	1.8
		28	-2	-10	-11	-13	-7	-4	3	3	10	3	1.8
		1.83	-0.11	-0.68	-0.73	-0.85	-0.44	-0.23	0.17	0.18	0.65	0.21	1.8
4800 MHz	INTERCEPT (mV)	1692.8											Measured Value (mV)
	SLOPE (mV/dB)	15.4											Error (mV)
		953	998	1067	1146	1222	1303	1381	1462	1543	1625	1697	1.6
		28	-4	-11	-9	-10	-6	-5	0	4	9	4	1.6
		1.83	-0.24	-0.75	-0.60	-0.65	-0.38	-0.30	-0.03	0.25	0.69	0.28	1.6
8600 MHz	INTERCEPT (mV)	1684.1											Measured Value (mV)
	SLOPE (mV/dB)	16.0											Error (mV)
		958	1006	1077	1162	1221	1300	1378	1458	1538	1620	1688	0.9
		25	-2	-7	-7	-13	-9	-5	-1	4	11	4	0.9
		1.64	-0.16	-0.43	-0.44	-0.84	-0.59	-0.39	-0.06	0.27	0.73	0.25	0.9
12400 MHz	INTERCEPT (mV)	1674.6											Measured Value (mV)
	SLOPE (mV/dB)	14.4											Error (mV)
		967	1023	1094	1166	1234	1309	1386	1461	1534	1612	1670	1.2
		13	-3	-4	-4	-8	-5	-1	3	4	9	-5	1.2
		0.93	-0.18	-0.26	-0.27	-0.65	-0.35	-0.08	0.19	0.25	0.66	-0.32	1.2
16200 MHz	INTERCEPT (mV)	1666.4											Measured Value (mV)
	SLOPE (mV/dB)	14.3											Error (mV)
		967	1022	1090	1161	1225	1299	1376	1448	1524	1600	1676	1.0
		17	1	-3	-4	-11	-9	-4	-3	1	5	10	1.0
		1.21	0.05	-0.21	-0.25	-0.79	-0.63	-0.28	-0.23	0.07	0.37	0.67	1.0
20000 MHz	INTERCEPT (mV)	1679.9											Measured Value (mV)
	SLOPE (mV/dB)	14.2											Error (mV)
		982	1041	1108	1177	1243	1321	1390	1461	1537	1612	1691	Flatness = ± 0.5
		14	2	-2	-5	-10	-3	-5	-5	0	3	11	
		0.99	0.13	-0.16	-0.32	-0.68	-0.20	-0.36	-0.37	-0.03	0.23	0.78	
	Average Slope (mV/dB)	1	1.6	1.4	1.1	0.8	0.8	0.6	0.8	0.8	1.1	1.1	

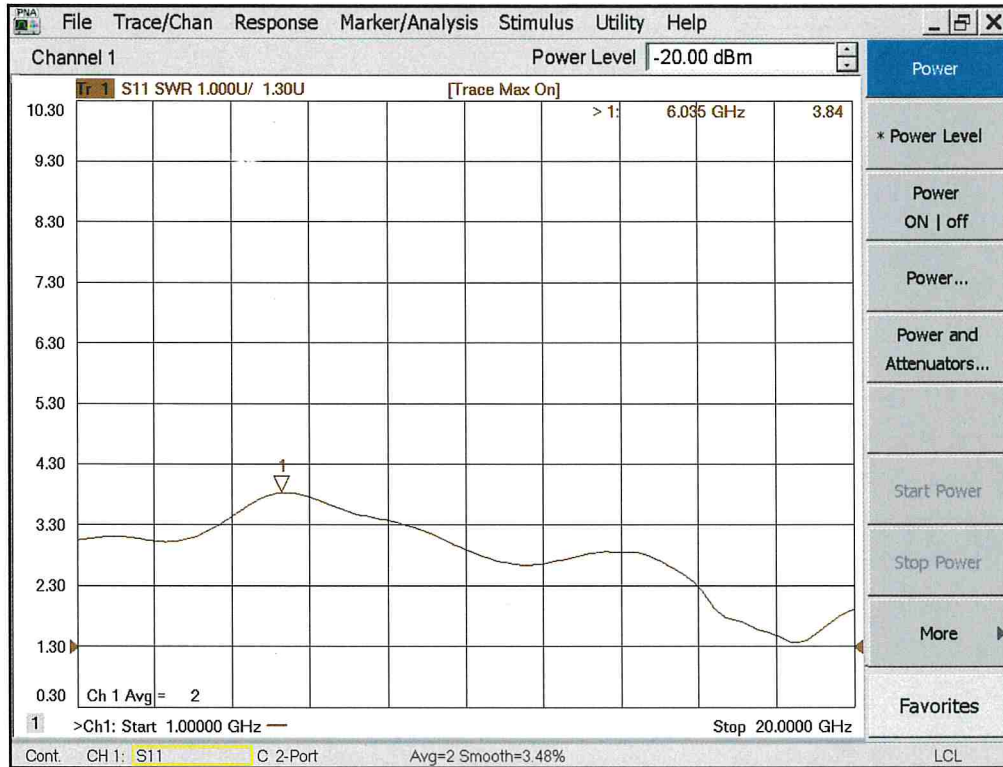




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**VSWR**



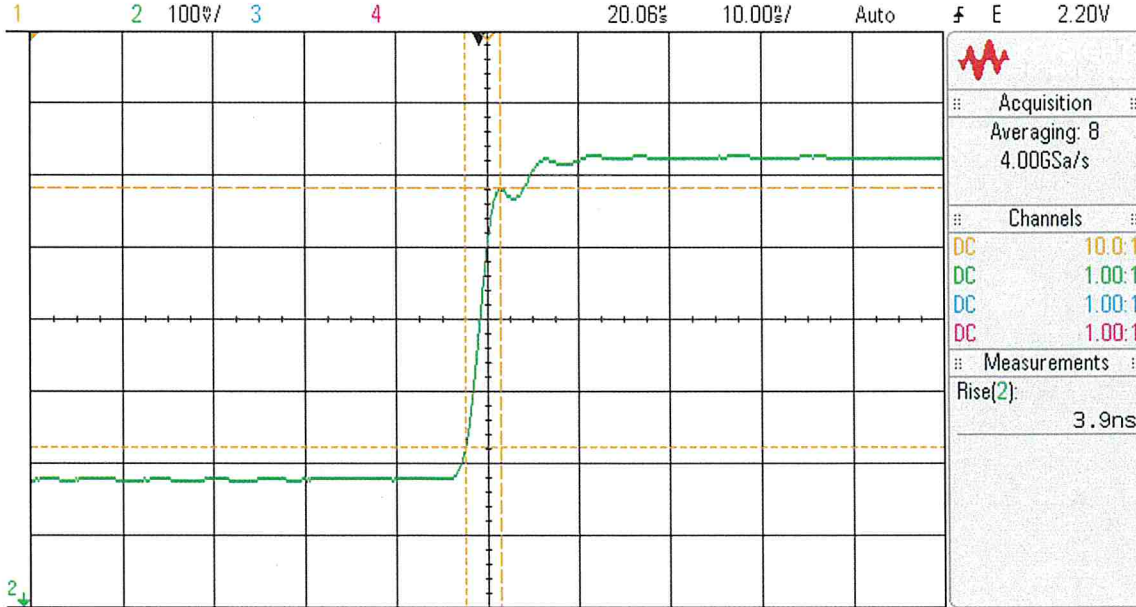


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## Rise Time

DSO-X 3024A, MY54490369: Wed Jul 26 13:59:49 2023



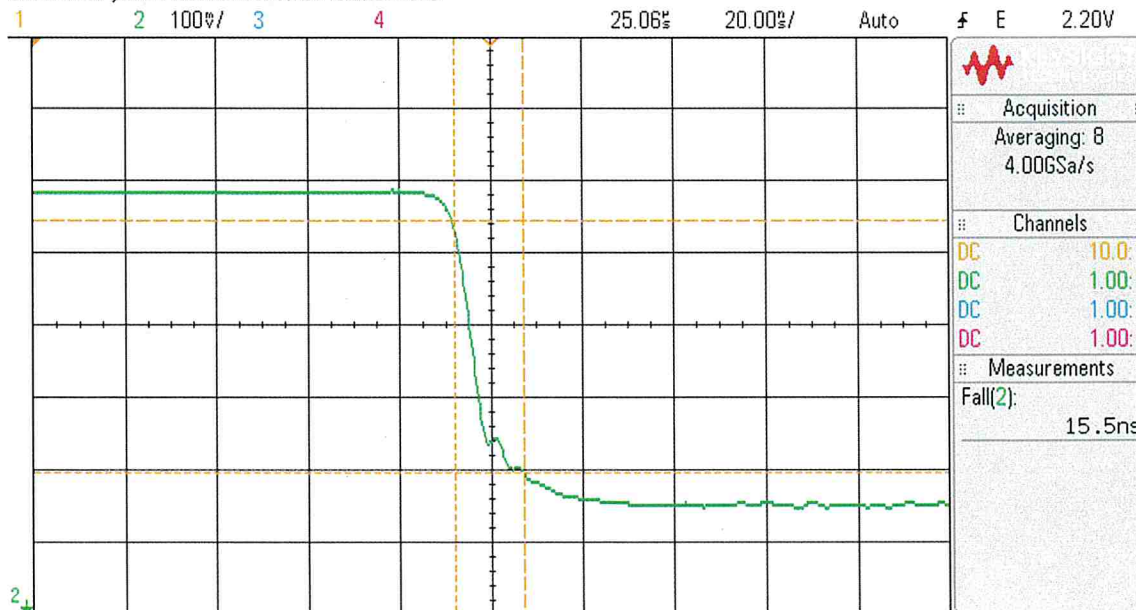
Acquire Menu

Acq Mode Averaging # Avgs 8

Segmented

## Fall Time

DSO-X 3024A, MY54490369: Wed Jul 26 15:56:02 2023



Acquire Menu

Acq Mode Averaging # Avgs 8

Segmented

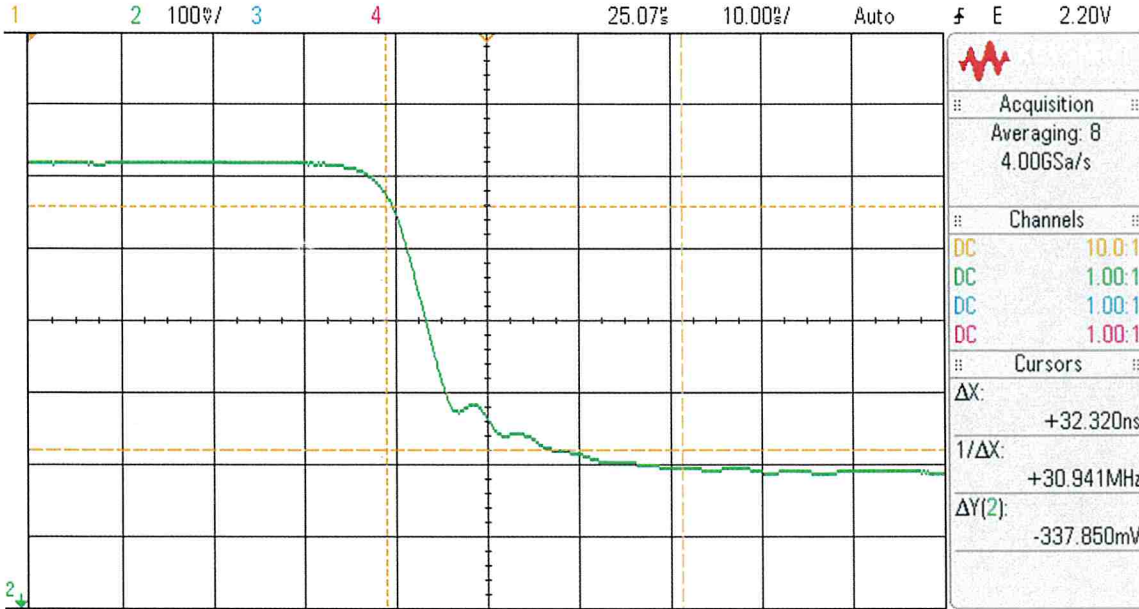


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## Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:53:06 2023

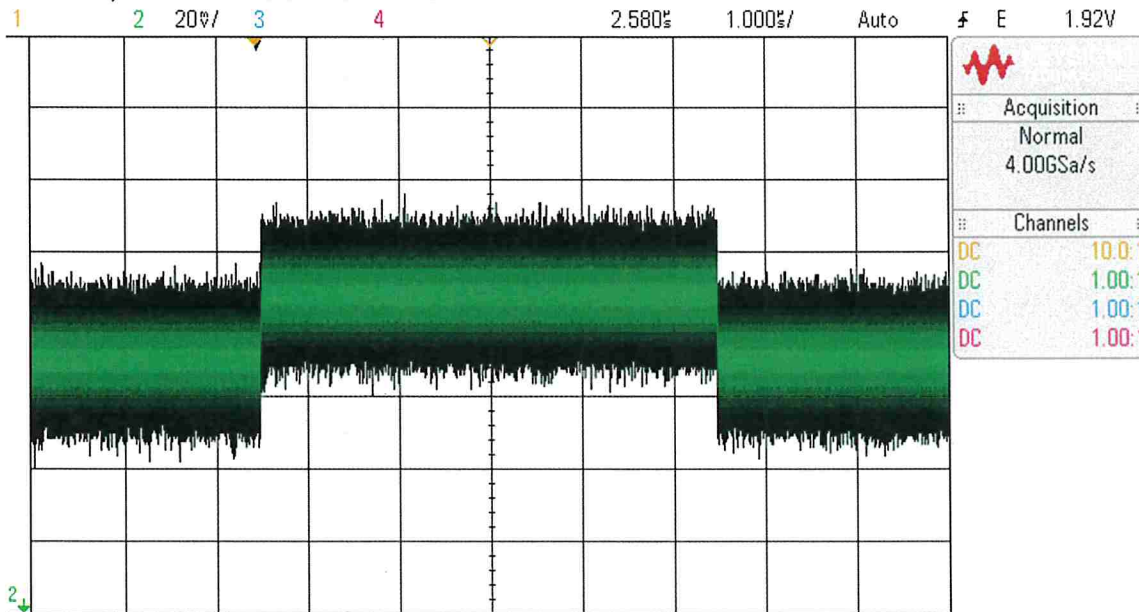


Help Menu

- Getting Started
- About Oscilloscope
- Language English
- Training Signals

## TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:05:15 2023



Acquire Menu

- Acq Mode Normal
- # Avgs 8
- Segmented