



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

**PL41407/2330**

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Serial No: PL41407/2330  
 Model No: SDLVA-1G20G258PF

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 QA/QC
2	Frequency Flatness	±2.0 dB Typ.	See Plot	±0.55 dB	
3	Log Linearity	±1.0 dB Typ. (-50 to 0 dBm)	See Plot	±1.6 dB Max ±1.2 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	3.73:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.962 V to 1.698 V	
8	Slope	14 mV / dB Typ.	See Plot	14.5 mV/dB	
9	Rise Time	5 ns Typ. (Pin = -20 dBm @ 10% to 90%)	See Plot	4.1 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	11.8 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	<27.9 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: *[Signature]* Date: 7.27.23




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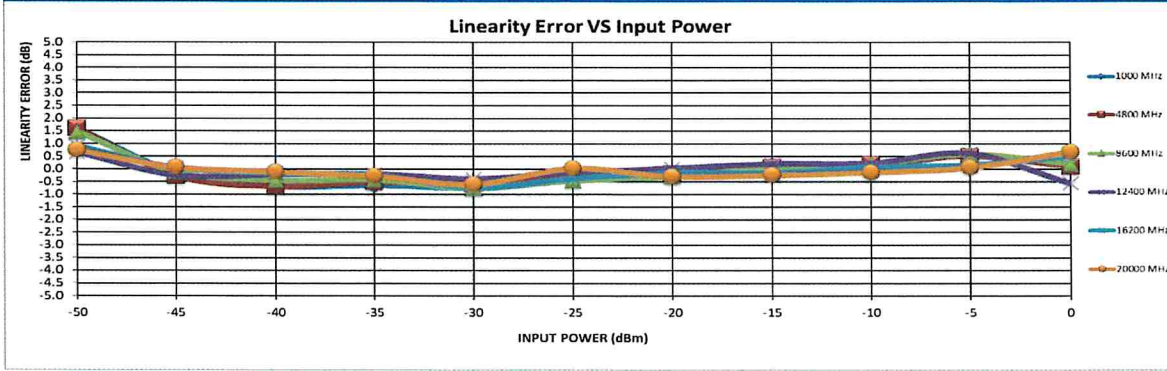
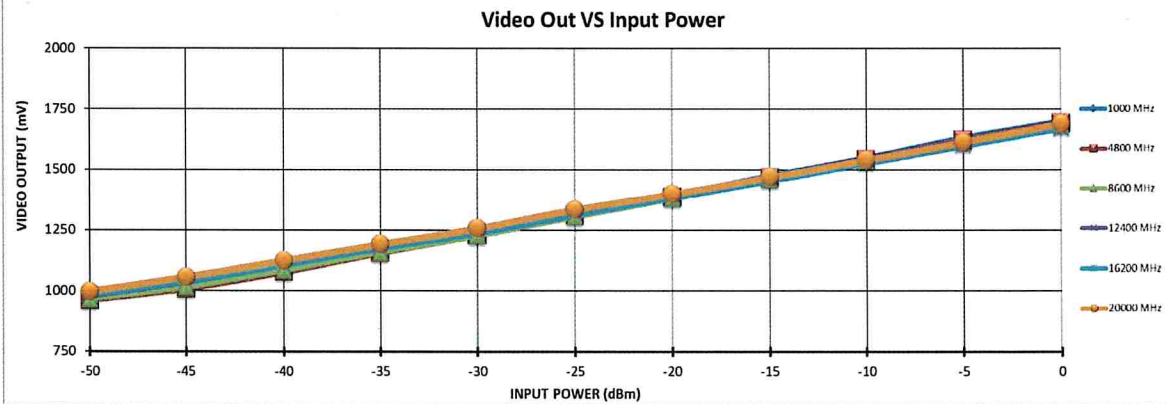
**Transfer Response at 25°C**

LOG TRANSFER VS FREQUENCY  
MODEL: SDLVA-1G20G-58-12-SFF  
TESTED BY: M. Ayala  
DATE: 07/25/2023  
SERIAL NO: PL41407

Test Temp: +25C



Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	1695.9	968	1017	1084	1160	1234	1316	1393	1473	1547	1629	1698	Measured Value (mV) Error (mV) 1.6
	SLOPE (mV/dB)	15.0	24	-2	-10	-10	-11	-4	-2	3	1	8	2	
4800 MHz	INTERCEPT (mV)	1690.5	962	1009	1078	1156	1230	1311	1387	1466	1543	1623	1692	Measured Value (mV) Error (mV) 1.6
	SLOPE (mV/dB)	15.1	24	-4	-11	-8	-9	-3	-3	1	3	8	1	
8600 MHz	INTERCEPT (mV)	1681.1	966	1016	1085	1159	1228	1306	1382	1461	1537	1616	1664	Measured Value (mV) Error (mV) 1.5
	SLOPE (mV/dB)	14.7	22	-2	-7	-5	-11	-7	-4	1	3	9	3	
12400 MHz	INTERCEPT (mV)	1676.9	980	1038	1109	1180	1248	1322	1395	1468	1539	1615	1669	Measured Value (mV) Error (mV) 0.6
	SLOPE (mV/dB)	14.1	9	-4	-3	-3	-5	-2	0	3	3	9	-8	
16200 MHz	INTERCEPT (mV)	1667.7	981	1039	1106	1175	1238	1313	1386	1456	1529	1600	1675	Measured Value (mV) Error (mV) 0.9
	SLOPE (mV/dB)	14.0	13	1	-2	-3	-10	-5	-2	-2	1	2	7	
20000 MHz	INTERCEPT (mV)	1680.5	997	1057	1124	1191	1256	1334	1399	1469	1540	1612	1690	Measured Value (mV) Error (mV) 0.7
	SLOPE (mV/dB)	13.9	10	1	-1	-4	-8	0	-4	-3	-2	1	10	
Average Slope (mV/dB)		14.5	0.64	-0.25	-0.22	-0.19	-0.38	-0.14	0.03	0.20	0.23	0.62	-0.56	Flatness = ± 0.55

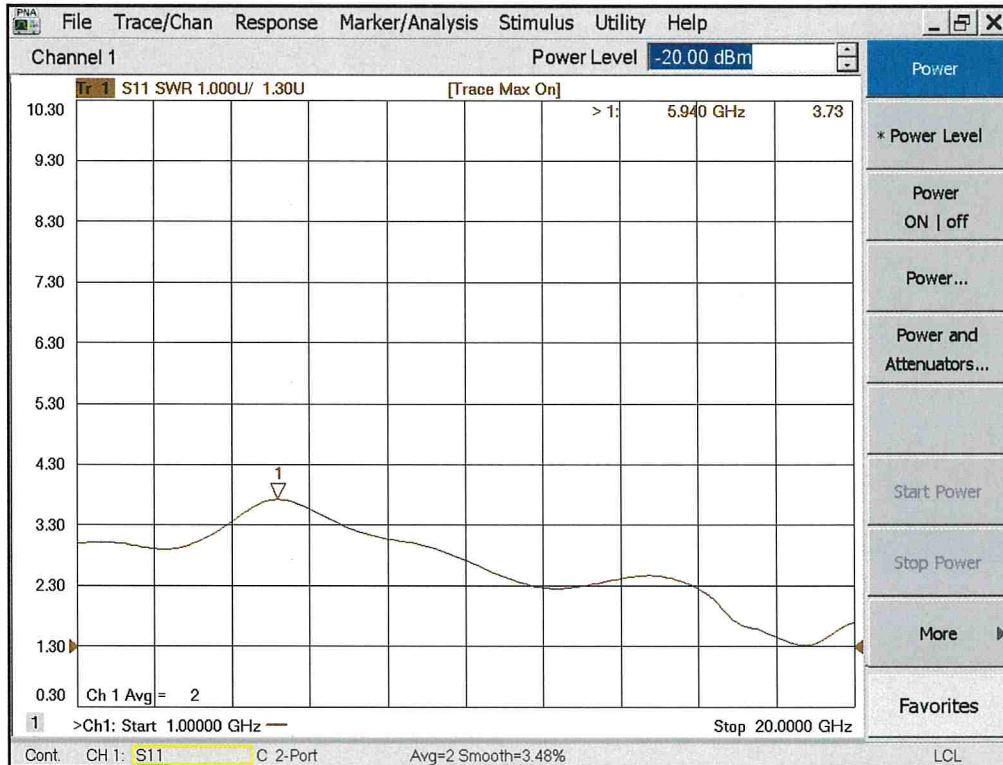




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**VSWR**



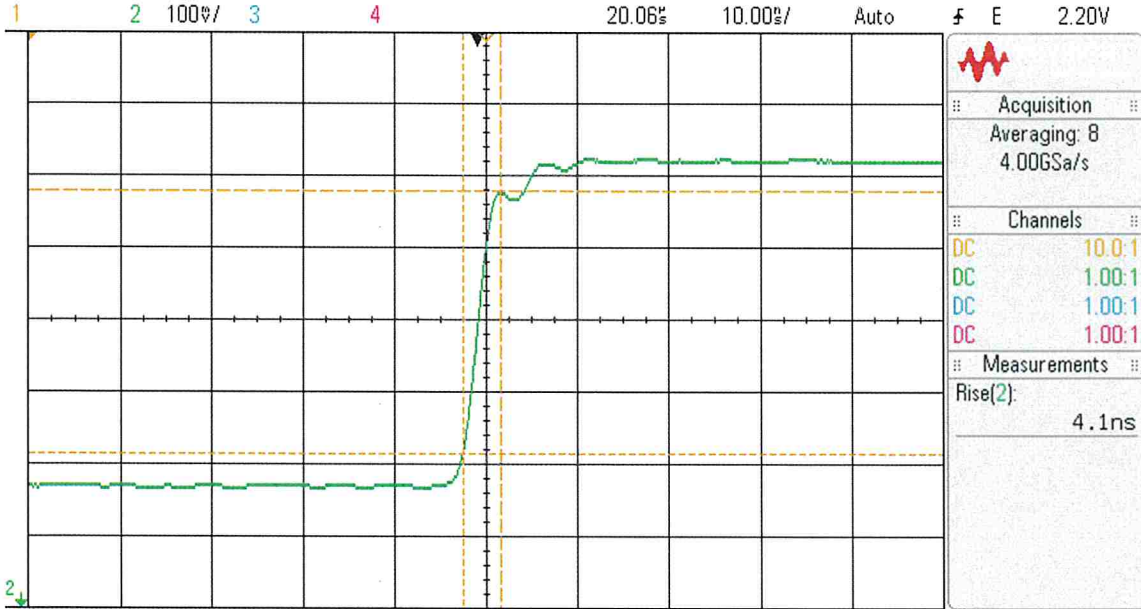


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## Rise Time

DSO-X 3024A, MY54490369, Wed Jul 26 13:47:04 2023



Acquire Menu

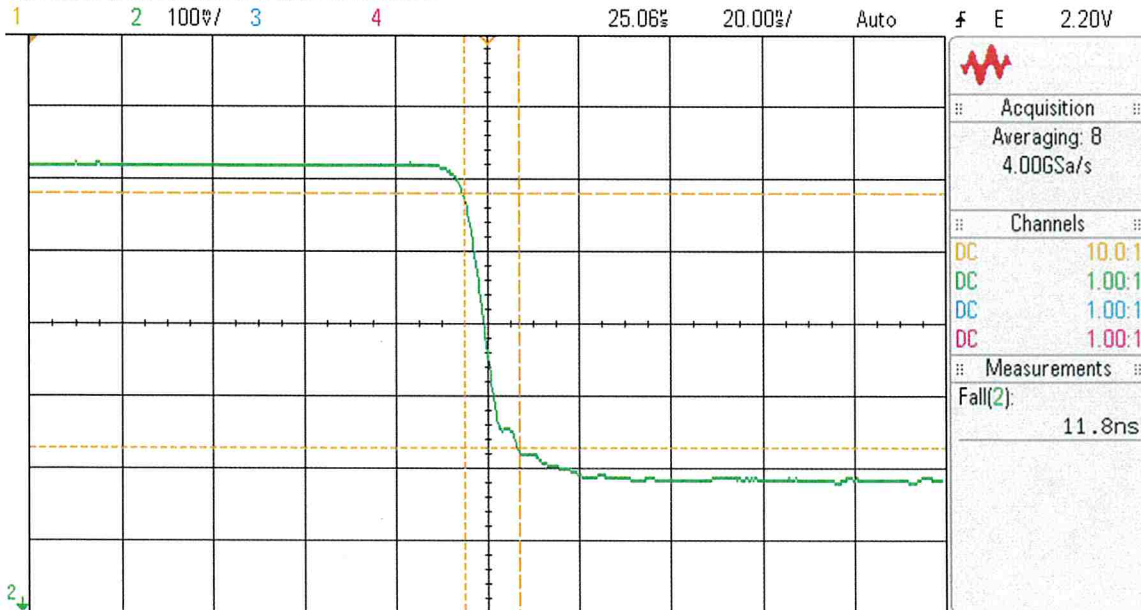
Acq Mode Averaging

# Avgs 8

Segmented

## Fall Time

DSO-X 3024A, MY54490369, Wed Jul 26 15:47:49 2023



Acquire Menu

Acq Mode Averaging

# Avgs 8

Segmented

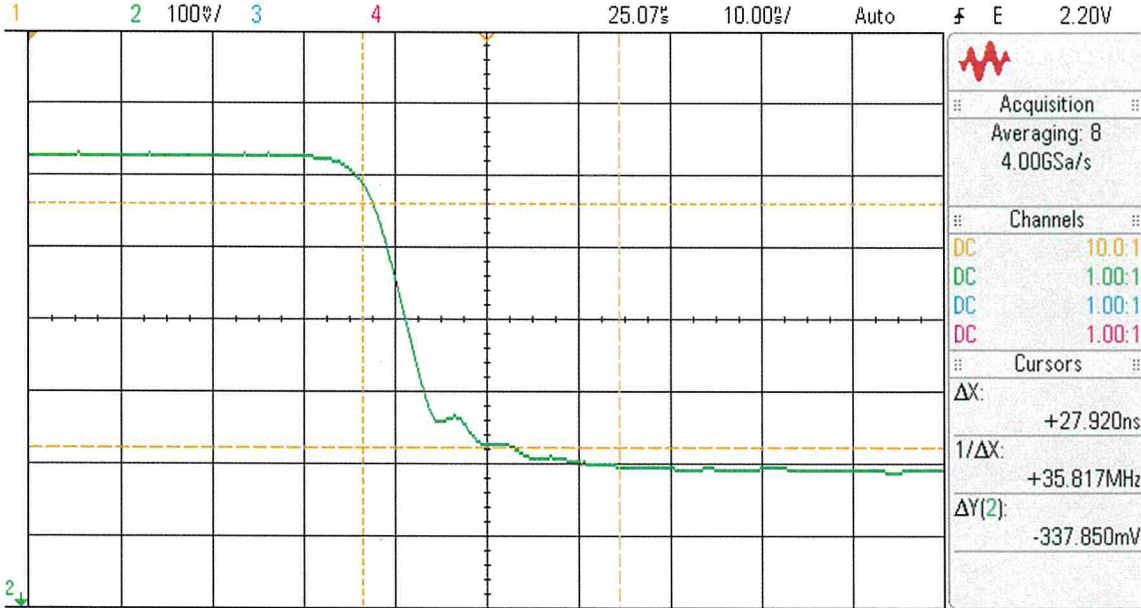


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## Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:44 2023

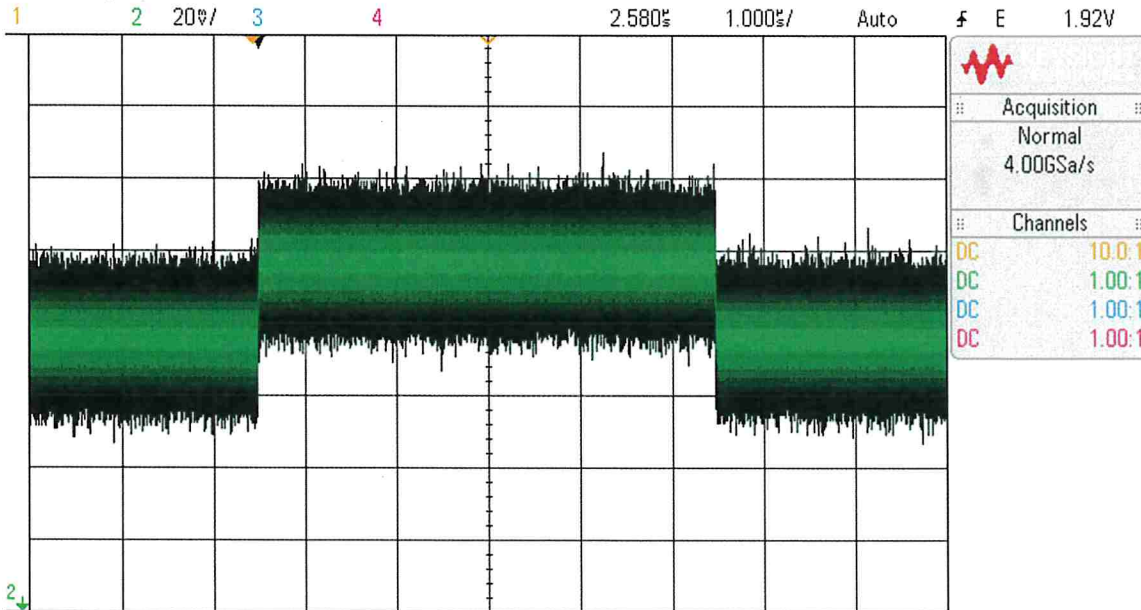


Cursors Menu

Mode Manual Source 2 Cursors X2 Units X1: 25.056680us Y1: 1.30298V X2: 25.084600us Y2: 965.13mV

## TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:09:35 2023



Acquire Menu

Acq Mode Normal # Avgs 8 Segmented