



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

**PL41400/2330**

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL41400/2330

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 QA
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	±1.3 dB Max ±0.9 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	3.75:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.940 V to 1.711V	
8	Slope	14 mV / dB Typ.	See Plot	15.1 mV/dB	
9	Rise Time	5 ns Typ. (Pin = -20 dBm @ 10% to 90%)	See Plot	3.6 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	8.0 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	< 23.5 ns	
12	Propagation Delay	14 ns Typ.	By Design	Pass	
13	TSS	-60 dBm Typ.	See Plot	-57 dBm	
14	Power Supply	+12 V @ 100 mA Typ.	-	94 mA	

QA/QC Approval: *K. Venter* Date: 7-27-23




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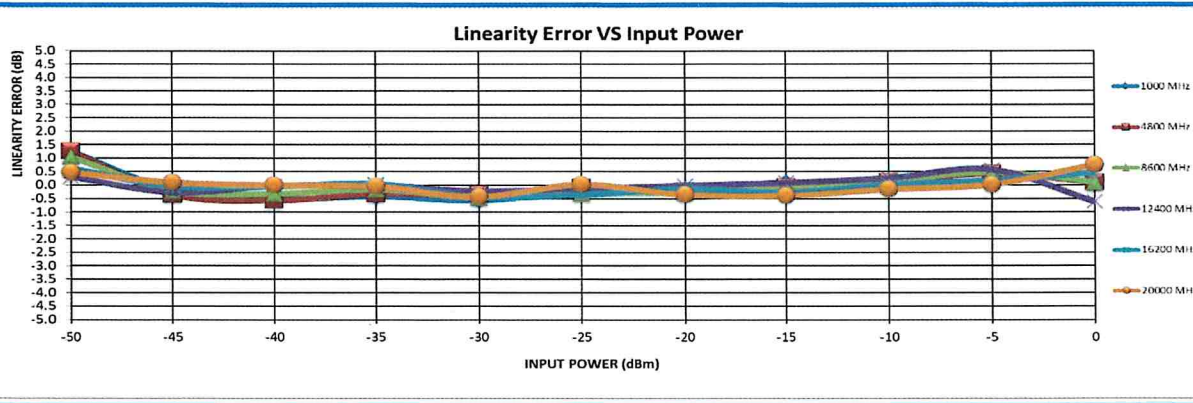
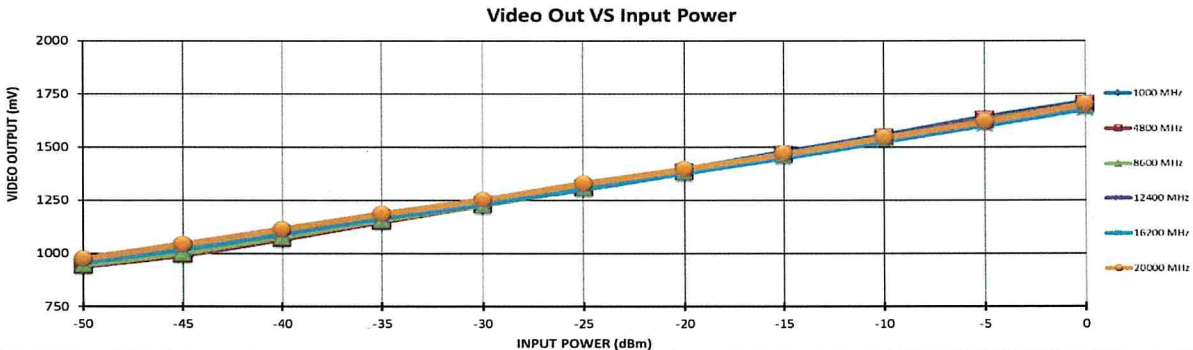
**Transfer Response at 25°C**

LOG TRANSFER VS FREQUENCY  
MODEL: SDLVA-1G20G-58-12-SFF  
TESTED BY: M. Ayala  
DATE: 07/25/2023  
SERIAL NO: PL41400

Test Temp: +25C



Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)											
1000 MHz	INTERCEPT (mV)	1709.2	946	1002	1075	1155	1231	1314	1394	1476	1554	1638	1711	Measured Value (mV)											
	SLOPE (mV/dB)	15.7	20	-3	-8	-6	-9	-4	-2	2	1	7	2	Error (mV)											
4800 MHz	INTERCEPT (mV)	1702.5	940	993	1068	1150	1228	1310	1386	1467	1548	1631	1704	Measured Value (mV)											
	SLOPE (mV/dB)	15.6	20	-5	-9	-5	-5	-1	-4	-1	2	7	2	Error (mV)											
8600 MHz	INTERCEPT (mV)	1694.4	945	1002	1077	1156	1228	1307	1384	1464	1544	1625	1696	Measured Value (mV)											
	SLOPE (mV/dB)	15.3	16	-3	-5	-3	-7	-5	-4	-1	3	7	2	Error (mV)											
12400 MHz	INTERCEPT (mV)	1689	959	1024	1101	1175	1245	1320	1395	1470	1546	1624	1680	Measured Value (mV)											
	SLOPE (mV/dB)	14.7	5	-4	0	0	-3	-2	0	1	4	8	-9	Error (mV)											
16200 MHz	INTERCEPT (mV)	1676.4	957	1020	1093	1167	1233	1307	1383	1454	1531	1606	1683	Measured Value (mV)											
	SLOPE (mV/dB)	14.6	9	-1	-1	0	-6	-5	-2	-4	0	2	7	Error (mV)											
20000 MHz	INTERCEPT (mV)	1692.2	974	1041	1112	1184	1251	1330	1397	1469	1545	1620	1703	Measured Value (mV)											
	SLOPE (mV/dB)	14.5	7	1	0	-1	-6	0	-5	-6	-2	0	11	Error (mV)											
Average Slope (mV/dB)		15.1	<table border="1"> <tr> <td>1.2</td> <td>1.6</td> <td>1.5</td> <td>1.2</td> <td>0.8</td> <td>0.8</td> <td>0.5</td> <td>0.7</td> <td>0.8</td> <td>1.1</td> <td>1.1</td> </tr> </table>											1.2	1.6	1.5	1.2	0.8	0.8	0.5	0.7	0.8	1.1	1.1	Flatness = ± 0.55
1.2	1.6	1.5	1.2	0.8	0.8	0.5	0.7	0.8	1.1	1.1															

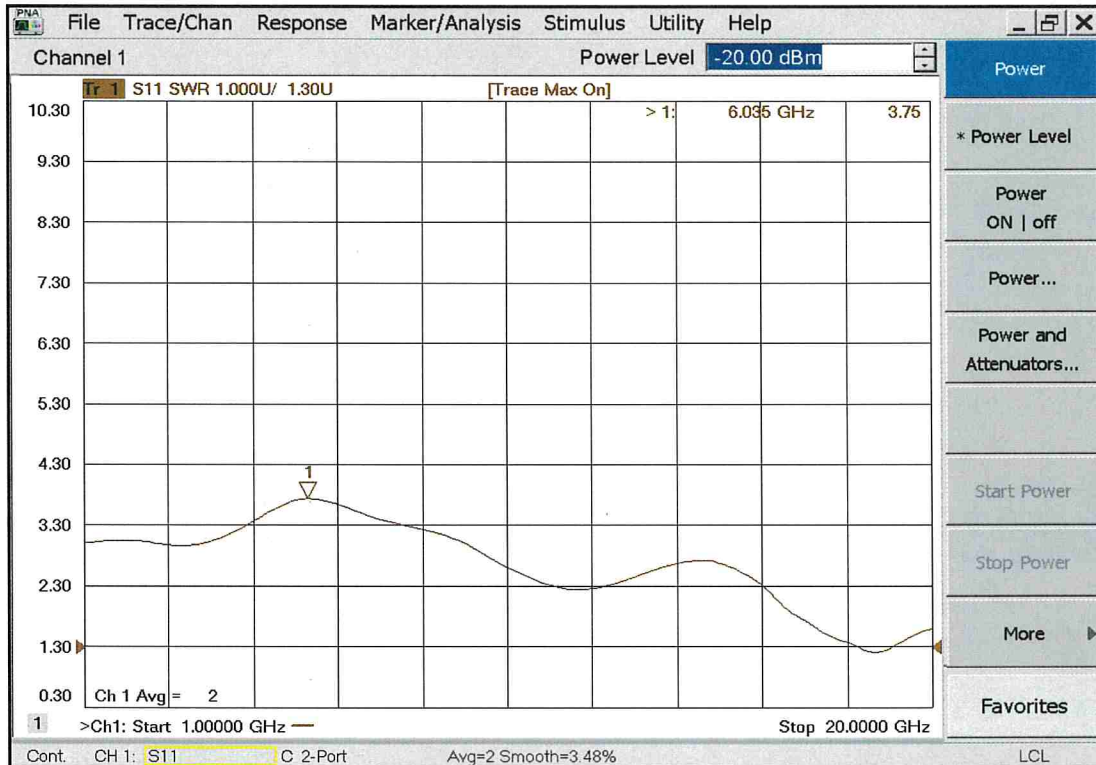




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**VSWR**



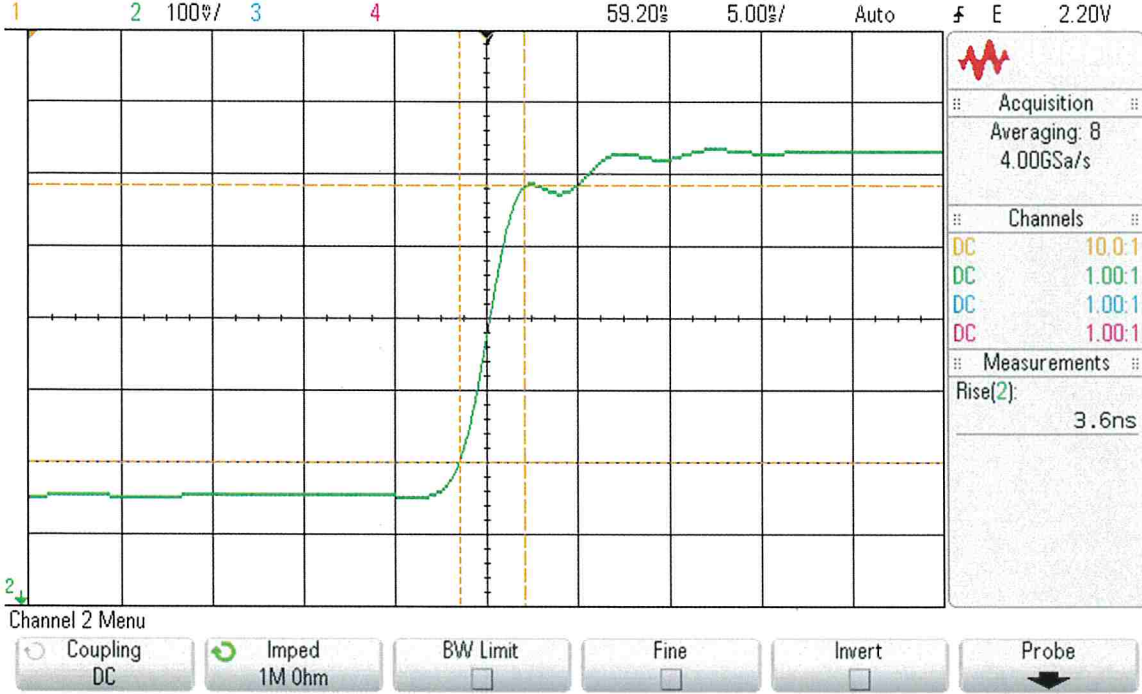


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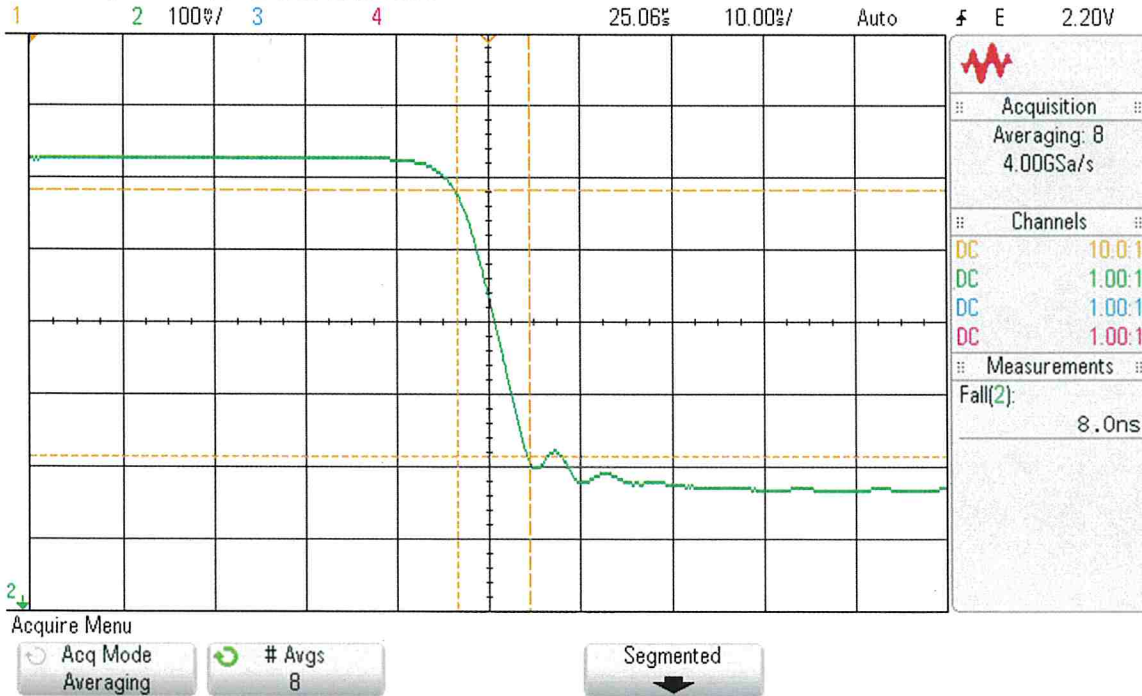
Rise Time

DSO-X 3024A, MY54490369: Wed Jul 26 13:25:12 2023



Fall Time

DSO-X 3024A, MY54490369: Wed Jul 26 15:43:50 2023



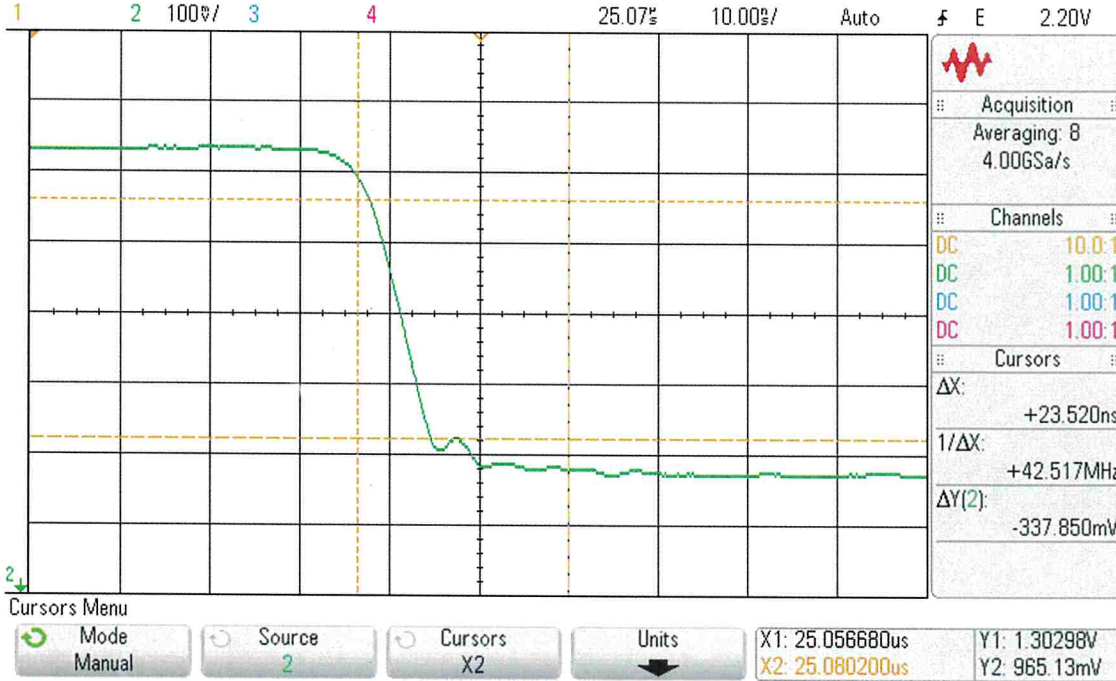


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## Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:11:28 2023



## TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:15:00 2023

