



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

PL41405/2330

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL41405/2330

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	QA3
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	±2.2 dB Max ±1.7 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	3.82:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.936 V to 1.690 V	
8	Slope	14 mV / dB Typ.	See Plot	14.9 mV/dB	
9	Rise Time	5 ns Typ. (Pin = -20 dBm @ 10% to 90%)	See Plot	3.8 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	12.3 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	<27.1 ns	
12	Propagation Delay	14 ns Typ.	By Design	Pass	
13	TSS	-60 dBm Typ.	See Plot	-55 dBm	
14	Power Supply	+12 V @ 100 mA Typ.	-	95 mA	

QA/QC Approval: *H. Vetter*

Date: 7.27.23

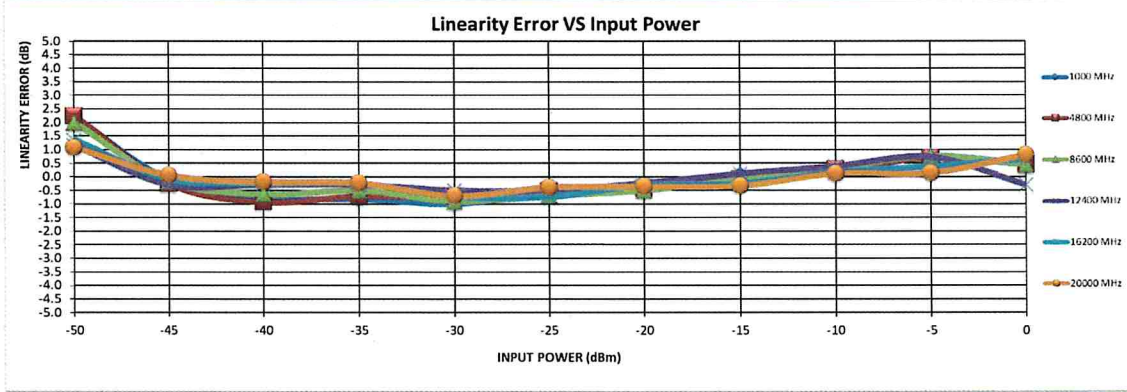
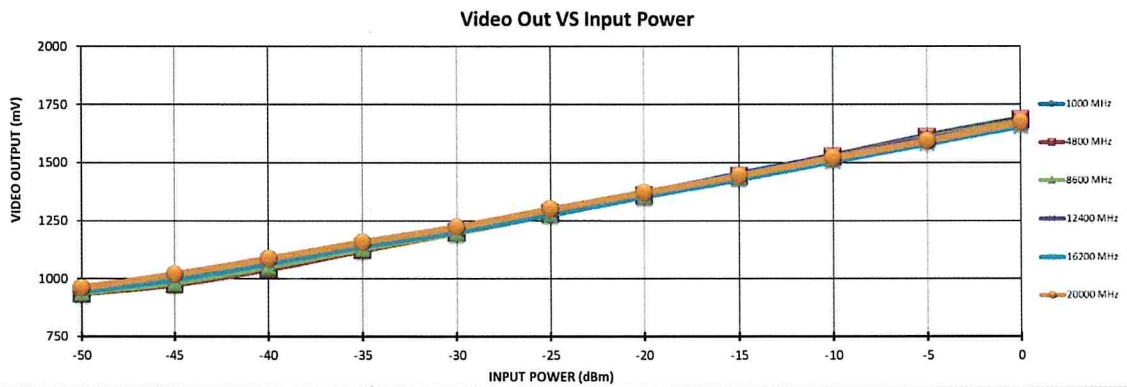


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Transfer Response at 25°C

LOG TRANSFER VS FREQUENCY													RF Input Power (dBm)	
MODEL: SDLVA-1G20G-58-12-SFF													Test Temp: +25C	
TESTED BY: M. Ayala														
DATE: 07/26/2023														
SERIAL NO: PL41405														
Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		
1000 MHz	INTERCEPT (mV)	1682.3											Measured Value (mV)	
	SLOPE (mV/dB)	15.5											Error (mV)	
			941	983	1050	1127	1202	1285	1366	1451	1530	1616	1690	2.2
		34	-1	-12	-13	-15	-10	-6	1	3	11	8		
		2.20	-0.10	-0.78	-0.81	-0.97	-0.62	-0.40	0.08	0.18	0.72	0.50		
4800 MHz	INTERCEPT (mV)	1676.9											Measured Value (mV)	
	SLOPE (mV/dB)	15.5											Error (mV)	
			936	975	1042	1123	1200	1281	1360	1443	1526	1610	1684	2.2
		35	-4	-14	-11	-12	-8	-7	-1	4	11	7		
		2.24	-0.25	-0.93	-0.71	-0.74	-0.52	-0.43	-0.08	0.27	0.69	0.46		
8600 MHz	INTERCEPT (mV)	1669.4											Measured Value (mV)	
	SLOPE (mV/dB)	15.2											Error (mV)	
			940	963	1052	1130	1200	1279	1358	1440	1522	1605	1676	2.0
		30	-3	-10	-3	-14	-11	-5	-1	5	12	7		
		1.99	-0.18	-0.64	-0.50	-0.89	-0.69	-0.49	-0.10	0.30	0.76	0.44		
12400 MHz	INTERCEPT (mV)	1662.3											Measured Value (mV)	
	SLOPE (mV/dB)	14.6											Error (mV)	
			949	1001	1074	1147	1217	1290	1367	1445	1522	1600	1658	1.1
		17	-4	-4	-4	-7	-7	-3	2	6	11	-4		
		1.15	-0.29	-0.29	-0.29	-0.50	-0.50	-0.22	0.12	0.39	0.73	-0.30		
16200 MHz	INTERCEPT (mV)	1648.5											Measured Value (mV)	
	SLOPE (mV/dB)	14.4											Error (mV)	
			948	999	1069	1141	1206	1278	1356	1429	1507	1582	1658	1.4
		20	-1	-3	-3	-10	-10	-4	-3	2	5	9		
		1.36	-0.10	-0.24	-0.24	-0.72	-0.73	-0.31	-0.24	0.17	0.39	0.66		
20000 MHz	INTERCEPT (mV)	1661.5											Measured Value (mV)	
	SLOPE (mV/dB)	14.3											Error (mV)	
			961	1018	1086	1157	1222	1298	1370	1442	1520	1592	1673	1.1
		15	1	-3	-3	-10	-6	-5	-5	2	2	11		
		1.08	0.06	-0.19	-0.23	-0.69	-0.39	-0.36	-0.33	0.12	0.14	0.80		
Average Slope (mV/dB)		14.9											Flatness = ± 0.5	
		0.9	1.5	1.5	1.2	0.8	0.7	0.5	0.8	0.8	1.2	1.1		

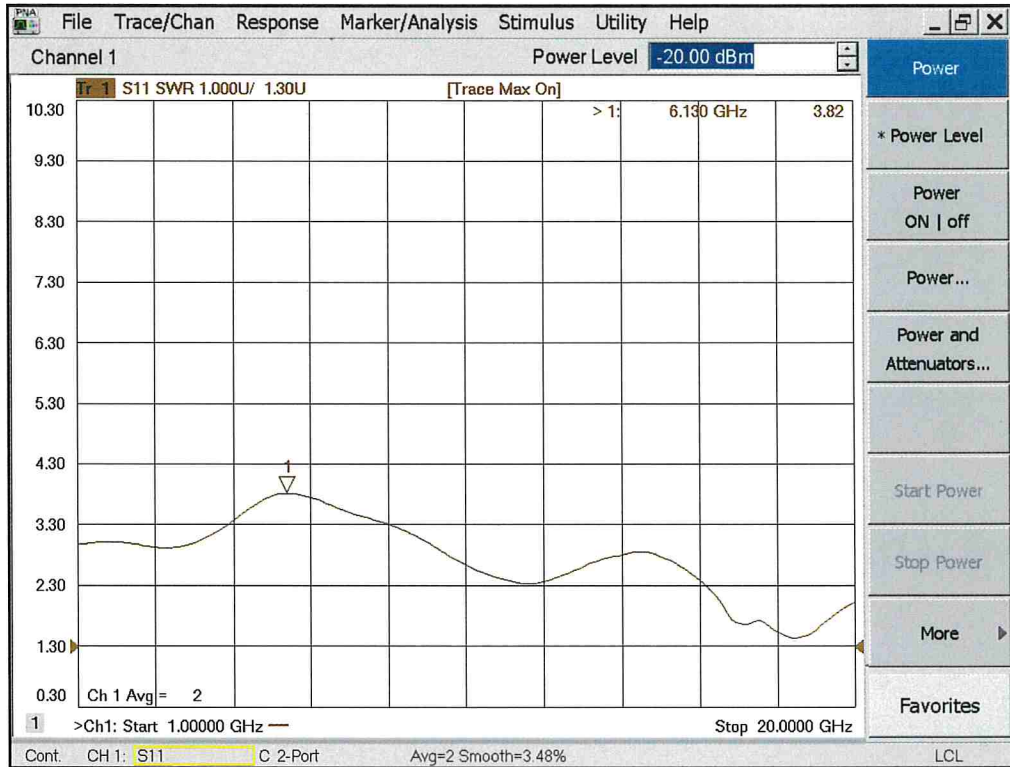




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VSWR





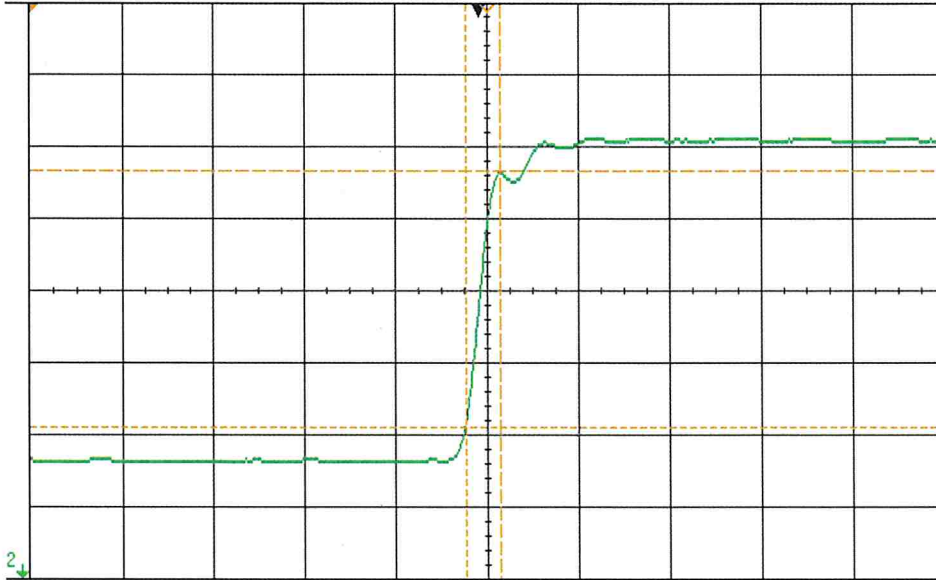
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Rise Time

DSO-X 3024A, MY54490369, Wed Jul 26 13:57:45 2023

1 2 100% / 3 4 20.06% 10.00% / Auto f E 2.20V



Acquisition	
Averaging:	8
4.00GSa/s	
Channels	
DC	10.0:1
DC	1.00:1
DC	1.00:1
DC	1.00:1
Measurements	
Rise(2):	3.8ns

Acquire Menu

Acq Mode Averaging

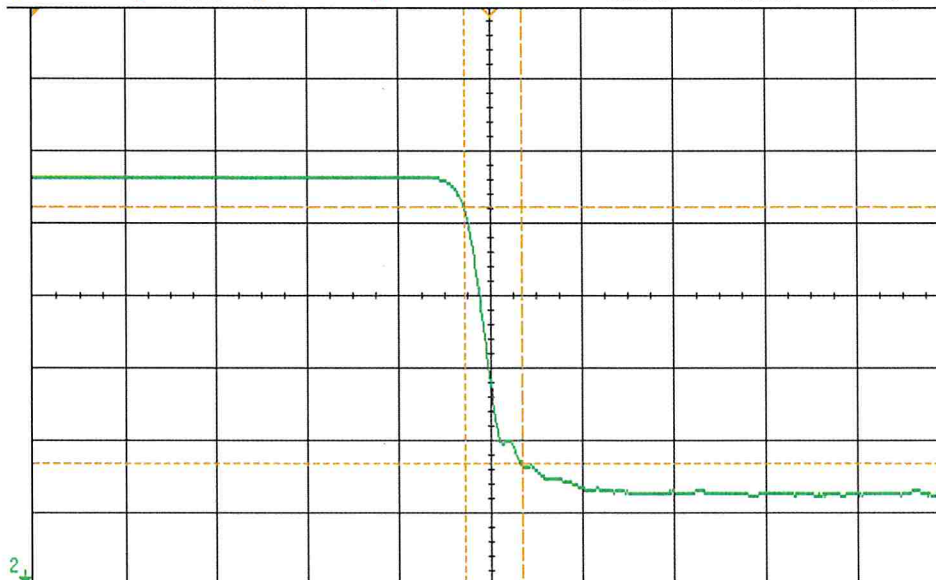
Avgs 8

Segmented

Fall Time

DSO-X 3024A, MY54490369, Wed Jul 26 15:57:52 2023

1 2 100% / 3 4 25.06% 20.00% / Auto f E 2.20V



Acquisition	
Averaging:	8
4.00GSa/s	
Channels	
DC	10.0:1
DC	1.00:1
DC	1.00:1
DC	1.00:1
Measurements	
Fall(2):	12.3ns

Acquire Menu

Acq Mode Averaging

Avgs 8

Segmented

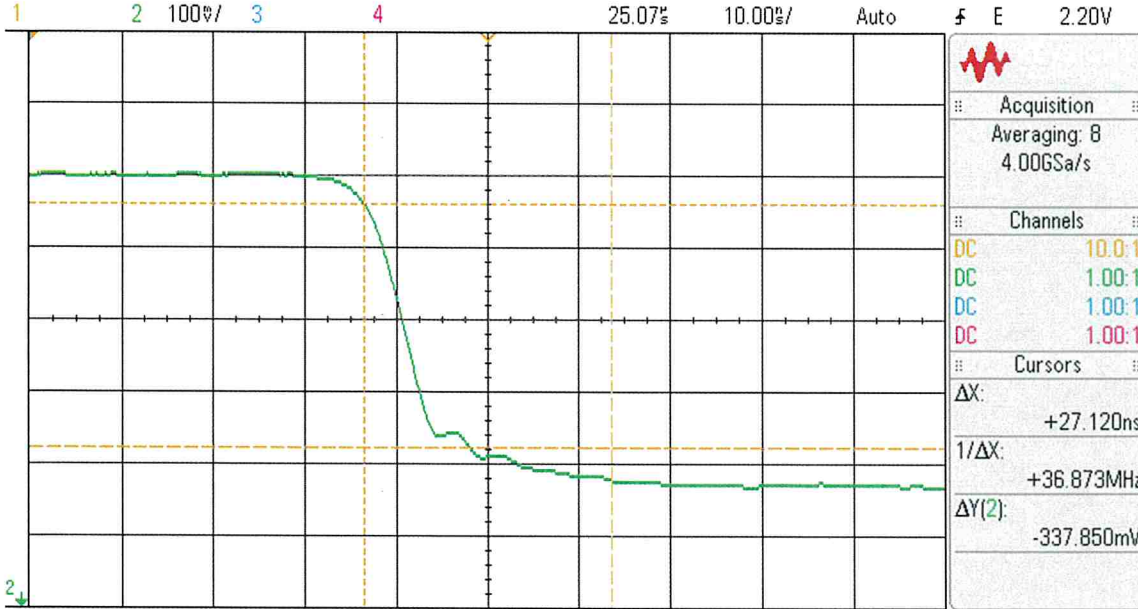


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Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:13:19 2023

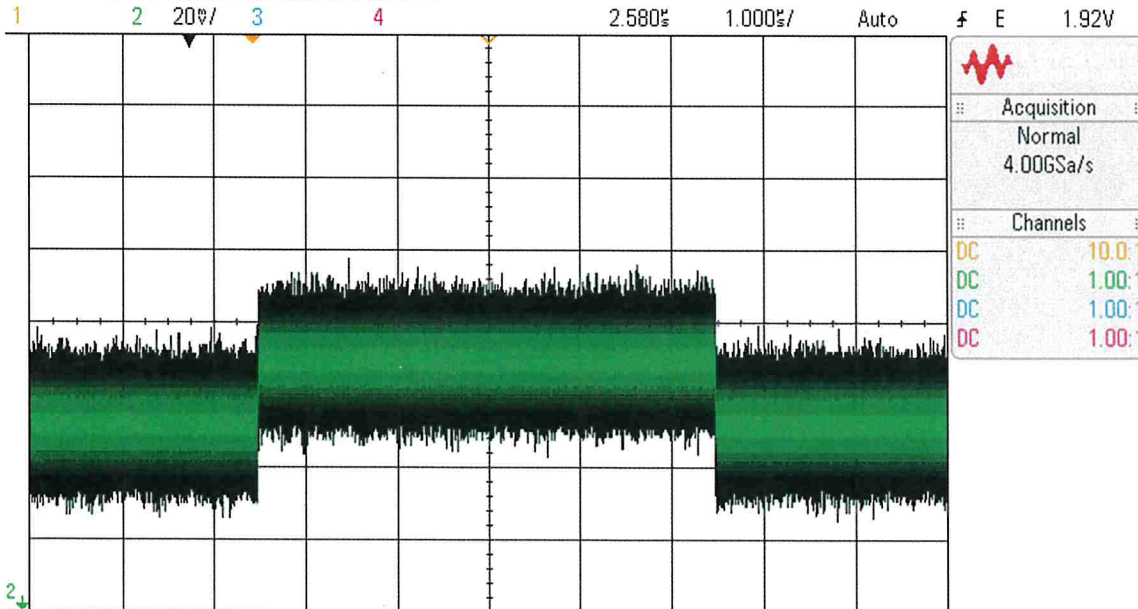


Cursors Menu

Mode Manual Source 2 Cursors X2 Units X1: 25.056680us Y1: 1.30298V X2: 25.083600us Y2: 965.13mV

TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:13:29 2023



Acquire Menu

Acq Mode Normal # Avgs 8 Segmented