



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

PL41402/2330

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL41402/2330

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	± 0.5dB	
3	Log Linearity	±1.0 dB Typ. (-50 to 0 dBm)	See Plot	± 1.7 dB Max ± 1.3 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	3.76:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.927 V to 1.711 V	
8	Slope	14 mV / dB Typ.	See Plot	15.4 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	11.5 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	< 23.9 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: *H. Venter* Date: 7.27.23




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Transfer Response at 25°C

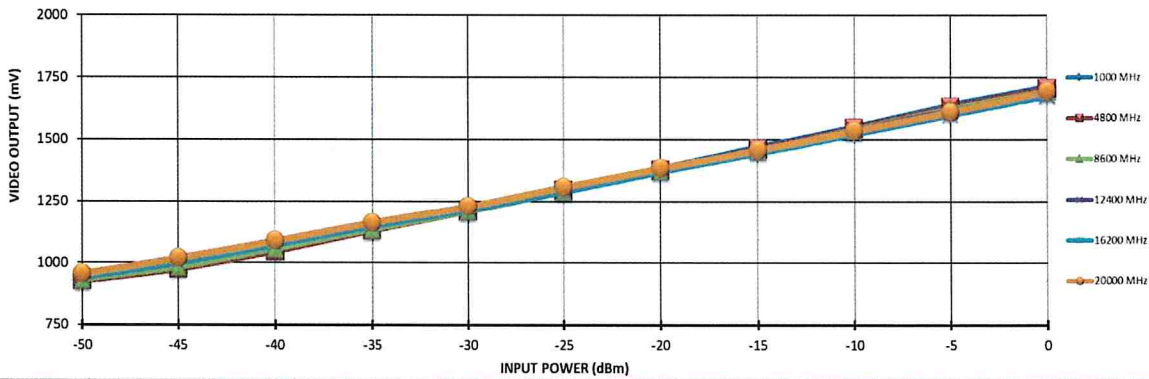
LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-1G20G-58-12-SFF
TESTED BY: M. Ayala
DATE: 07/25/2023
SERIAL NO: PL41402

Test Temp: +25C

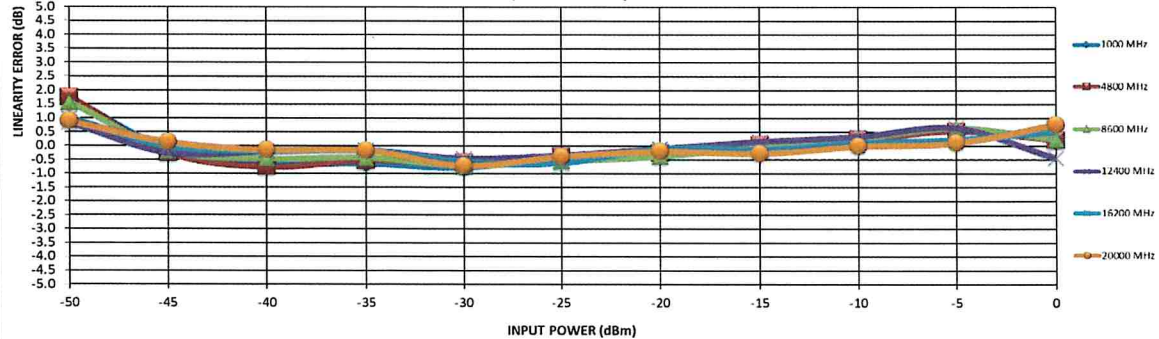


Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	932											Measured Value (mV)
	SLOPE (mV/dB)	27											Error (mV)
		1.71											1.7
4800 MHz	INTERCEPT (mV)	927											Measured Value (mV)
	SLOPE (mV/dB)	28											Error (mV)
		1.75											1.7
8600 MHz	INTERCEPT (mV)	931											Measured Value (mV)
	SLOPE (mV/dB)	24											Error (mV)
		1.56											1.6
12400 MHz	INTERCEPT (mV)	941											Measured Value (mV)
	SLOPE (mV/dB)	12											Error (mV)
		0.82											0.8
16200 MHz	INTERCEPT (mV)	942											Measured Value (mV)
	SLOPE (mV/dB)	15											Error (mV)
		1.00											1.0
20000 MHz	INTERCEPT (mV)	955											Measured Value (mV)
	SLOPE (mV/dB)	13											Error (mV)
		0.89											0.9
Average Slope (mV/dB)		0.9											Flatness = ± 0.5

Video Out VS Input Power



Linearity Error VS Input Power

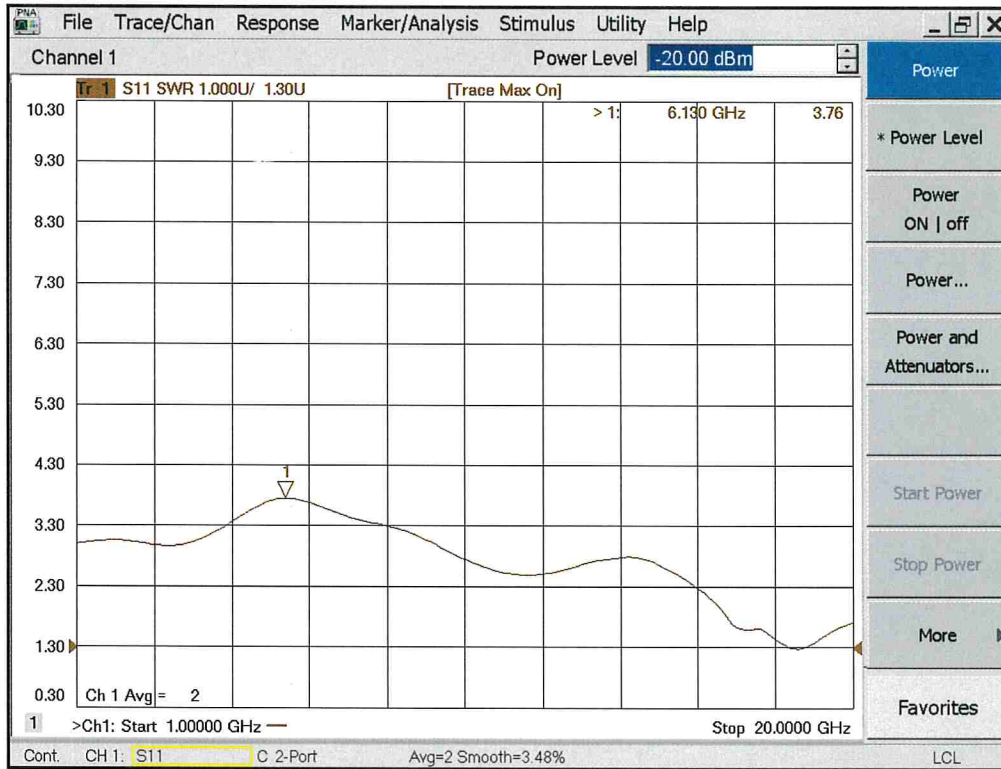




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VSWR





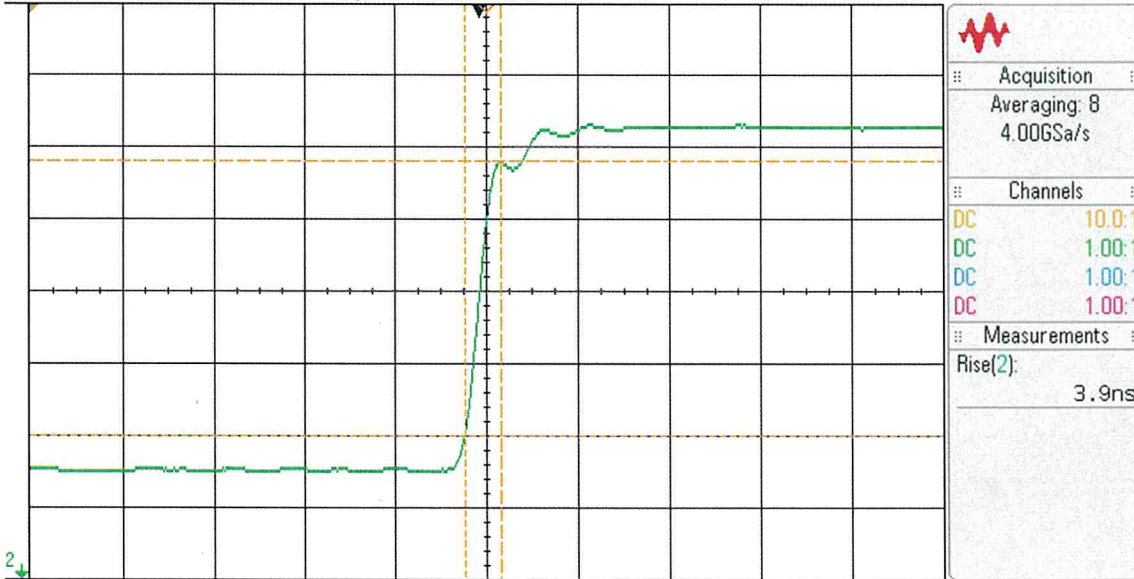
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Rise Time

DSO-X 3024A, MY54490369: Wed Jul 26 13:37:50 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):	3.9ns

Acquire Menu

Acq Mode Averaging

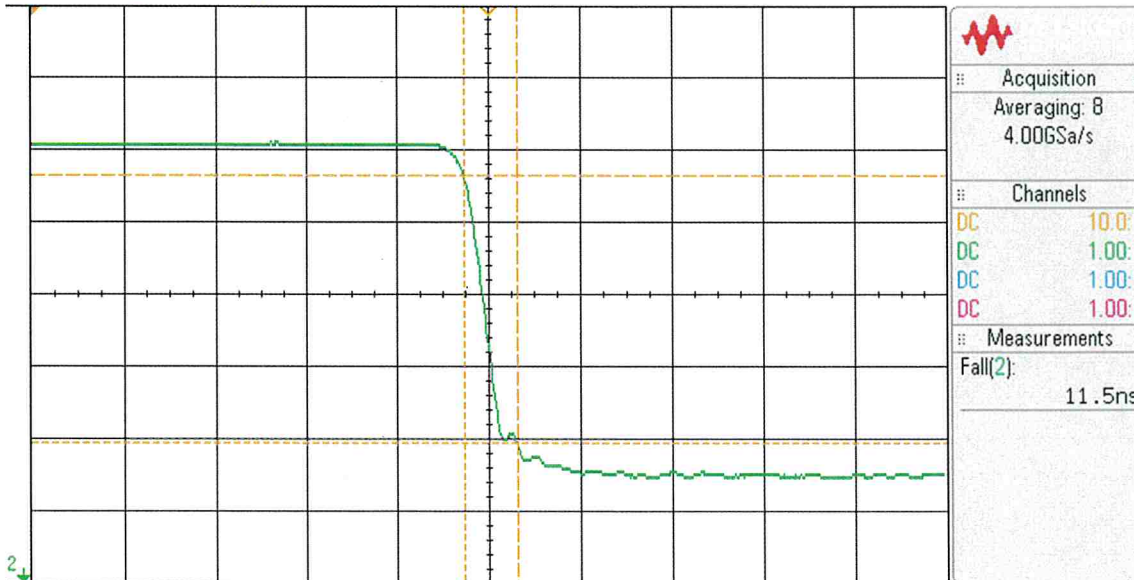
Avgs 8

Segmented

Fall Time

DSO-X 3024A, MY54490369: Wed Jul 26 15:45:46 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):	11.5ns

Acquire Menu

Acq Mode Averaging

Avgs 8

Segmented

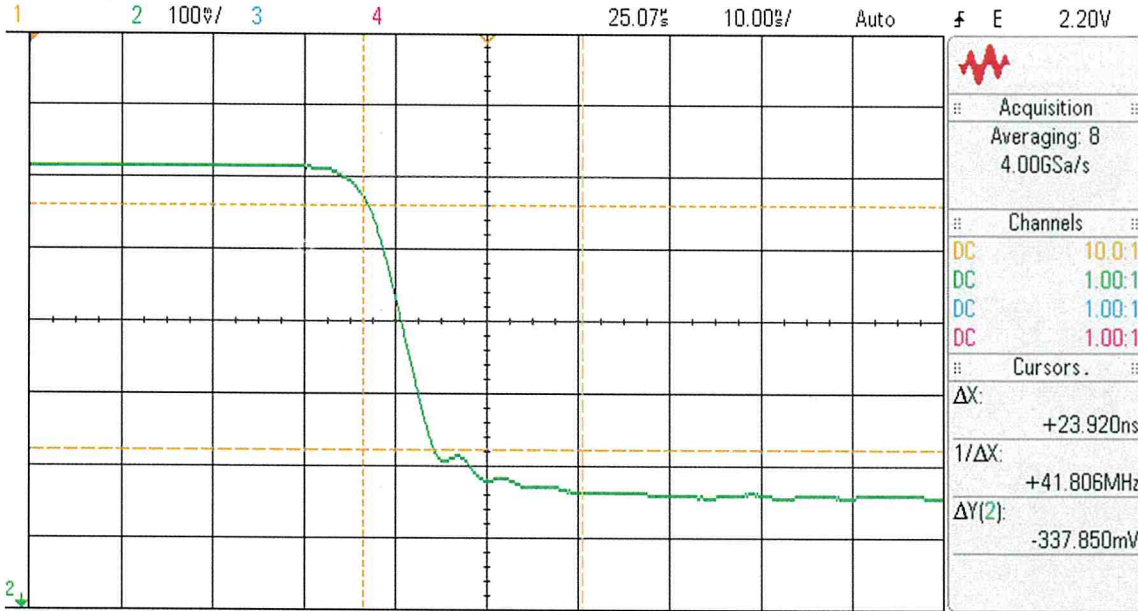


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Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:15:08 2023

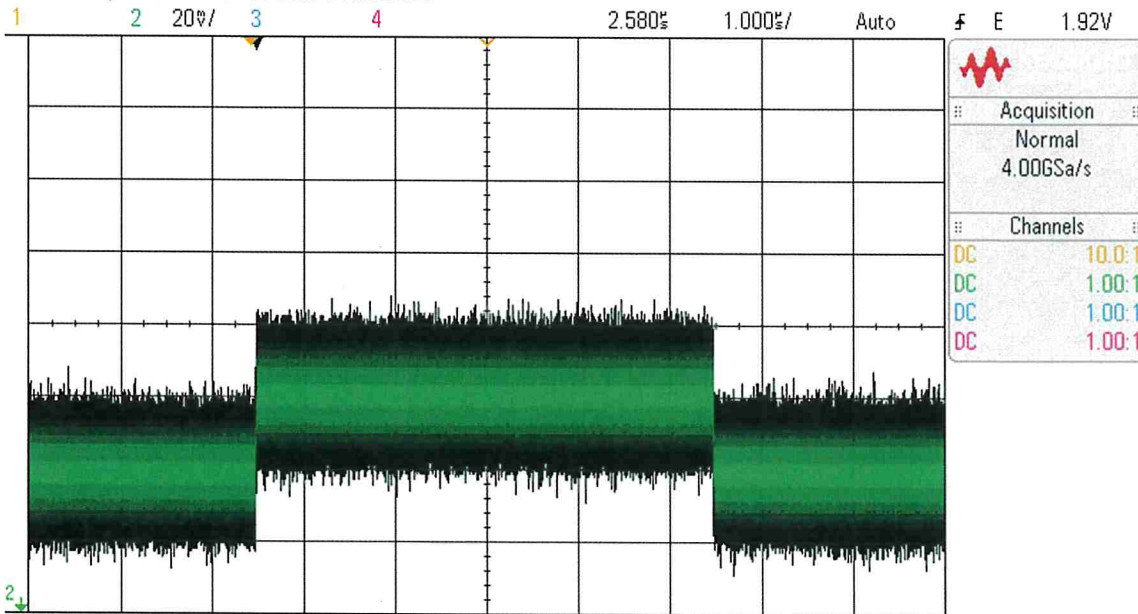


Cursors Menu

Mode Manual Source 2 Cursors X2 Units X1: 25.056680us Y1: 1.30298V X2: 25.080600us Y2: 965.13mV

TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:11:22 2023



Acquire Menu

Acq Mode Normal # Avgs 8 Segmented