



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

PL41403/2330

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL41403/2330

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 QA3
2	Frequency Flatness	±2.0 dB Typ.	See Plot	±0.6 dB	
3	Log Linearity	±1.0 dB Typ. (-50 to 0 dBm)	See Plot	±1.3 dB Max ±1.0 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	3.65:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.968 V to 1.713 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	3.6 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	7.8 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	< 20.9 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.	-	95 mA	

QA/QC Approval: *H. Hunter*

Date: 7.27.23



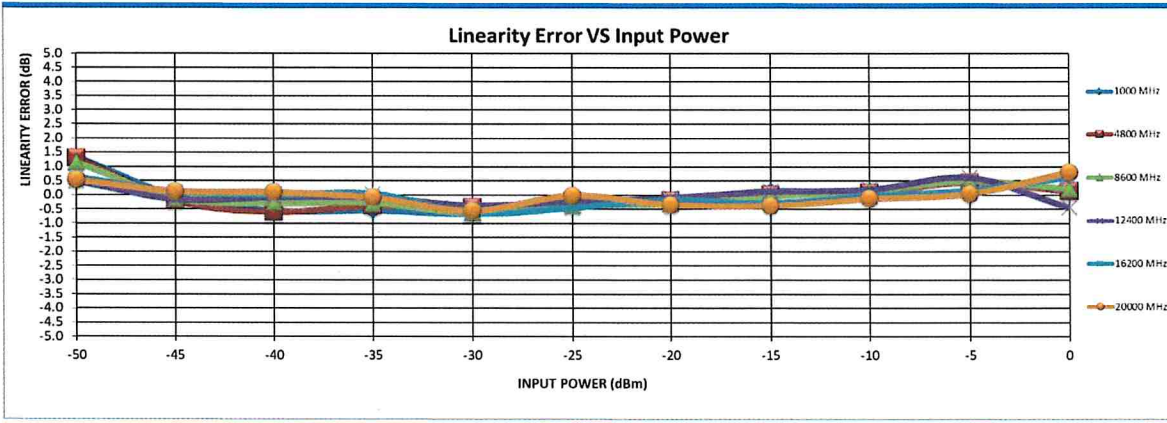
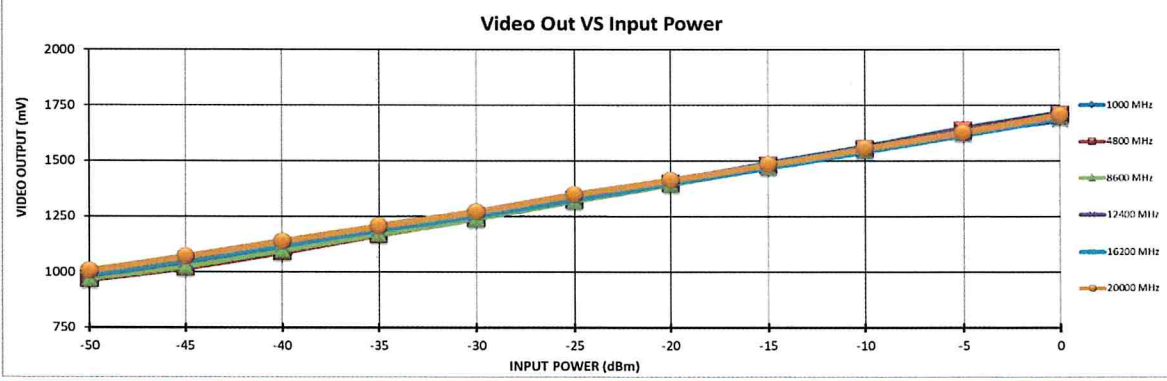
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Transfer Response at 25°C

LOG TRANSFER VS FREQUENCY
 MODEL: SDLVA-1G20G-58-12-SFF
 TESTED BY: M. Ayala
 DATE: 07/25/2023
 SERIAL NO: PL41403
 Test Temp: +25C

Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	974											Measured Value (mV)
	SLOPE (mV/dB)	20											Error (mV)
4800 MHz	INTERCEPT (mV)	968											Measured Value (mV)
	SLOPE (mV/dB)	20											Error (mV)
8600 MHz	INTERCEPT (mV)	972											Measured Value (mV)
	SLOPE (mV/dB)	17											Error (mV)
12400 MHz	INTERCEPT (mV)	987											Measured Value (mV)
	SLOPE (mV/dB)	7											Error (mV)
16200 MHz	INTERCEPT (mV)	990											Measured Value (mV)
	SLOPE (mV/dB)	9											Error (mV)
20000 MHz	INTERCEPT (mV)	1007											Measured Value (mV)
	SLOPE (mV/dB)	7											Error (mV)
Average Slope (mV/dB)		14.5											Flatness = ± 0.6

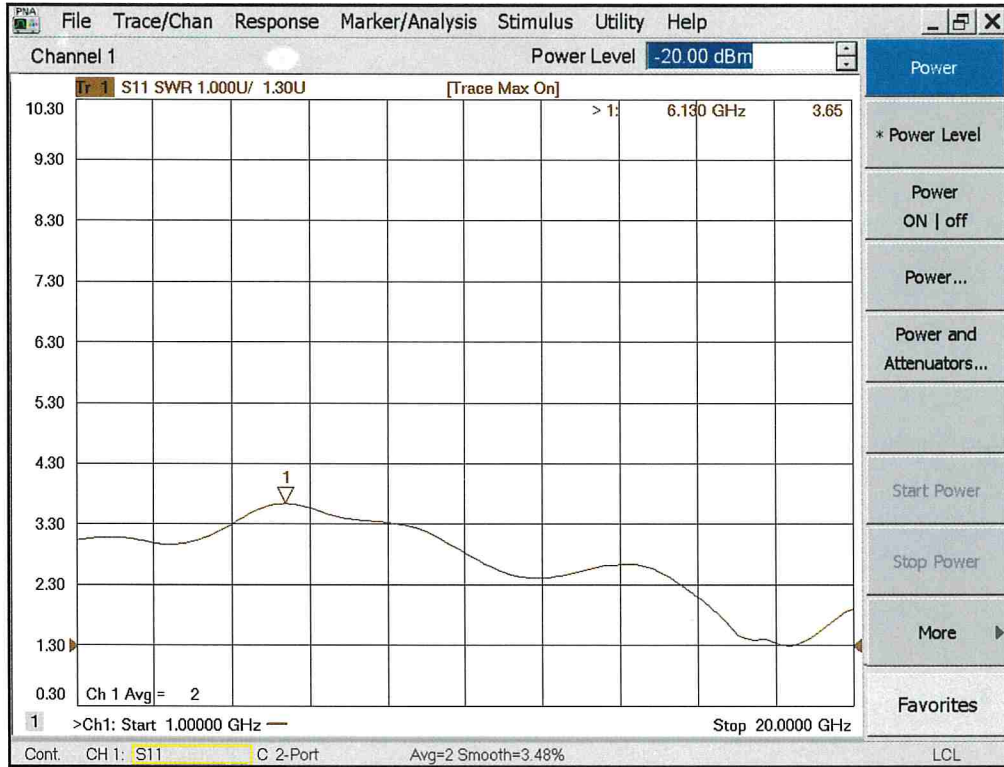




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VSWR



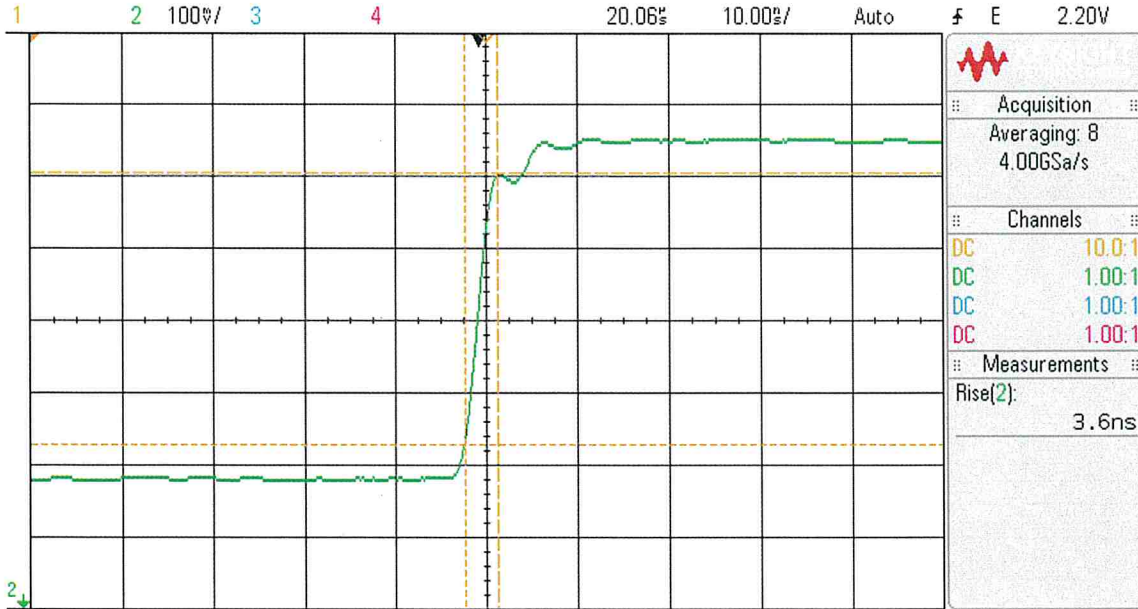


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Rise Time

DSO-X 3024A, MY54490369: Wed Jul 26 13:41:12 2023



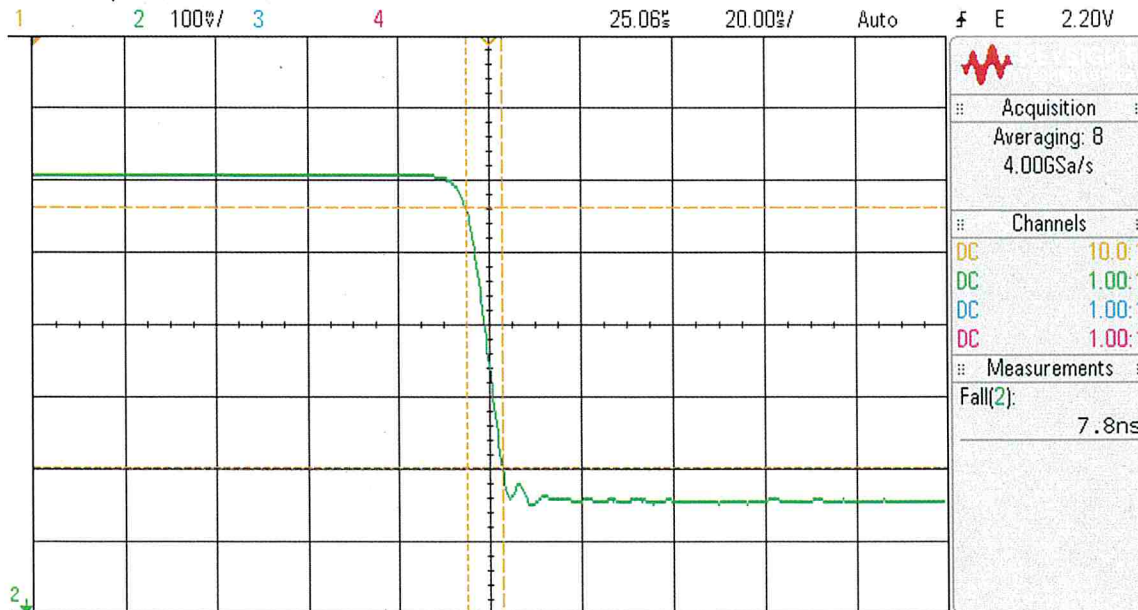
Acquire Menu

Acq Mode Averaging # Avgs 8

Segmented

Fall Time

DSO-X 3024A, MY54490369: Wed Jul 26 15:52:10 2023



Acquire Menu

Acq Mode Averaging # Avgs 8

Segmented

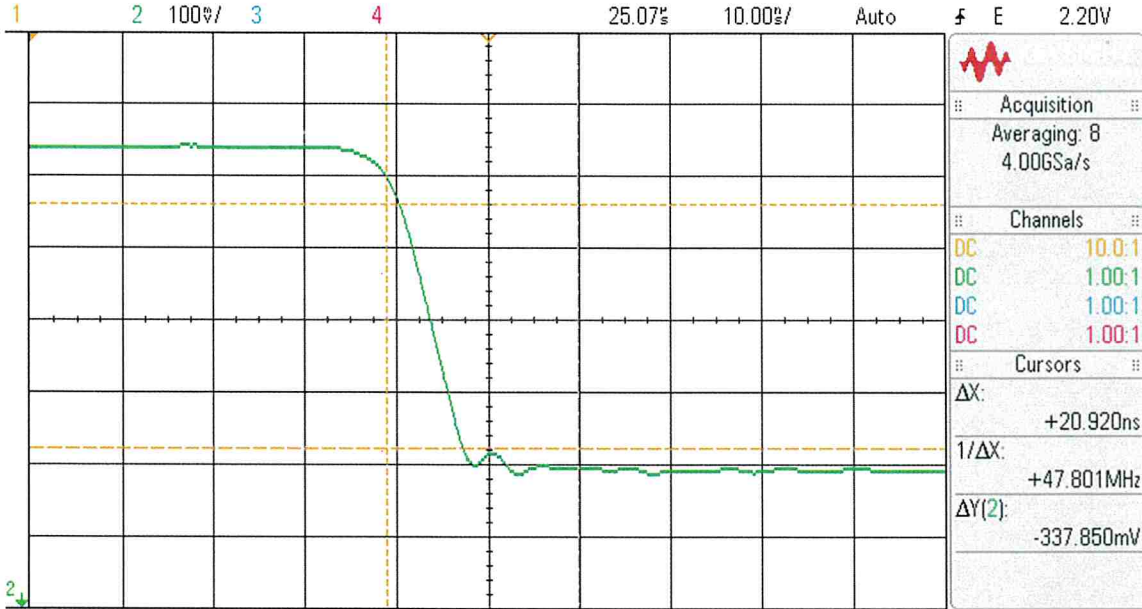


SUMMARY TEST DATA ON SDLVA-1G20G-58-12-SFF

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Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:19:05 2023

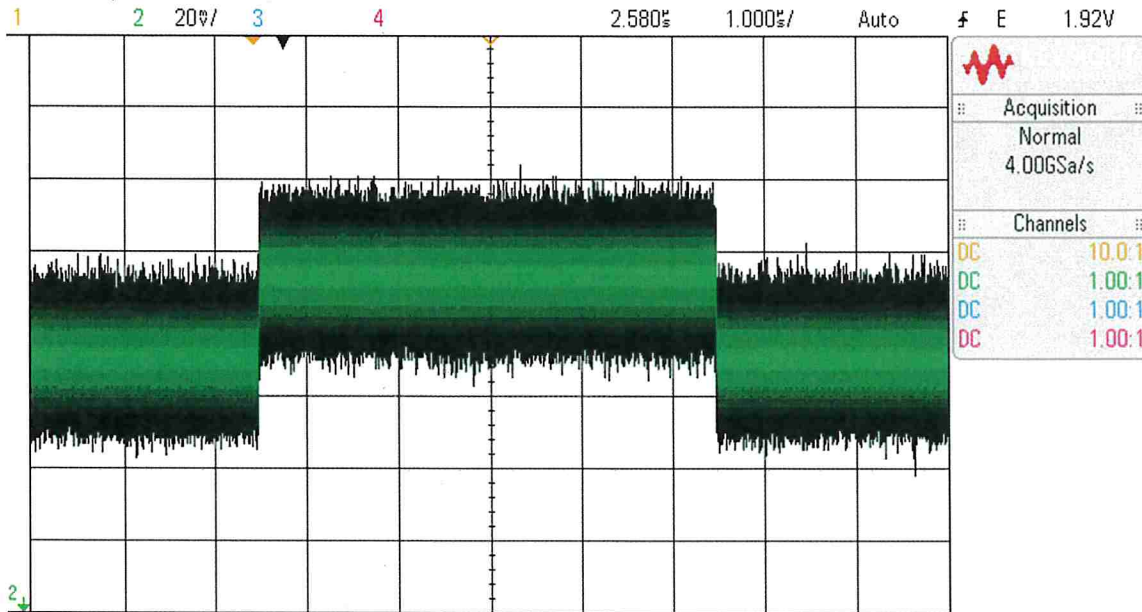


Cursors Menu

Mode Manual Source 2 Cursors X2 Units X1: 25.056680us Y1: 1.30298V X2: 25.077600us Y2: 965.13mV

TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:07:23 2023



Acquire Menu

Acq Mode Normal # Avgs 8 Segmented