



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

PL41406/2330

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL41406/2330

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 QAS
2	Frequency Flatness	±2.0 dB Typ.	See Plot	±0.45 dB	
3	Log Linearity	±1.0 dB Typ. (-50 to 0 dBm)	See Plot	±1.8 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	3.87:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.920 V to 1.701 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	3.6 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	7.7 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	<17.9 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.	-	97 mA	

QA/QC Approval: *K. Vinter*

Date: 7.27.23




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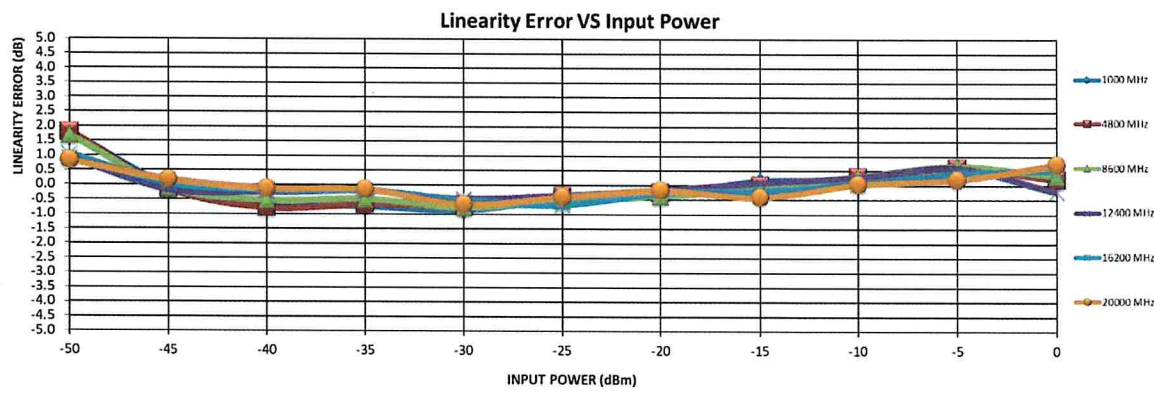
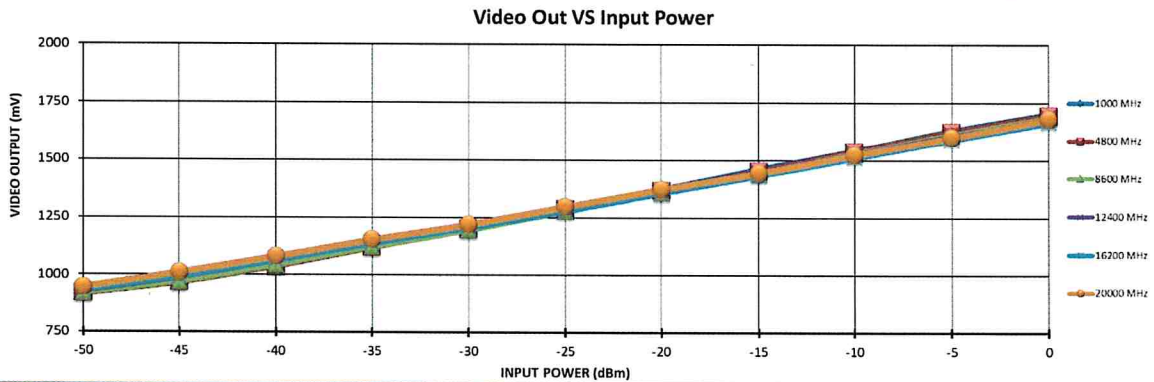
Transfer Response at 25°C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-1G20G-58-12-SFF
TESTED BY: M. Ayala
DATE: 07/26/2023
SERIAL NO: PL41406

Test Temp: +25C



Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	925 976 1046 1126 1203 1289 1372 1459 1540 1627 1701											Measured Value (mV)
	SLOPE (mV/dB)	28 -1 -11 -12 -14 -8 -5 2 3 10 4											Error (mV)
4800 MHz	INTERCEPT (mV)	920 969 1039 1121 1201 1286 1368 1452 1537 1622 1696											Measured Value (mV)
	SLOPE (mV/dB)	29 -2 -13 -11 -11 -6 -4 0 5 10 3											Error (mV)
8600 MHz	INTERCEPT (mV)	922 972 1044 1123 1197 1279 1360 1442 1527 1611 1684											Measured Value (mV)
	SLOPE (mV/dB)	26 -2 -8 -8 -12 -8 -6 -3 5 10 6											Error (mV)
12400 MHz	INTERCEPT (mV)	932 991 1065 1141 1212 1289 1367 1446 1524 1604 1667											Measured Value (mV)
	SLOPE (mV/dB)	14 -3 -4 -3 -7 -5 -3 1 4 9 -3											Error (mV)
16200 MHz	INTERCEPT (mV)	934 993 1064 1138 1207 1279 1359 1434 1512 1591 1667											Measured Value (mV)
	SLOPE (mV/dB)	15 0 -3 -3 -8 -10 -4 -3 1 8 8											Error (mV)
20000 MHz	INTERCEPT (mV)	947 1011 1080 1153 1219 1296 1373 1443 1523 1599 1680											Measured Value (mV)
	SLOPE (mV/dB)	12 3 -2 -2 -10 -6 -3 -6 0 3 11											Error (mV)
Average Slope (mV/dB)		0.9 1.4 1.4 1.1 0.7 0.6 0.6 0.8 0.9 1.2 1.1											Flatness = ± 0.46



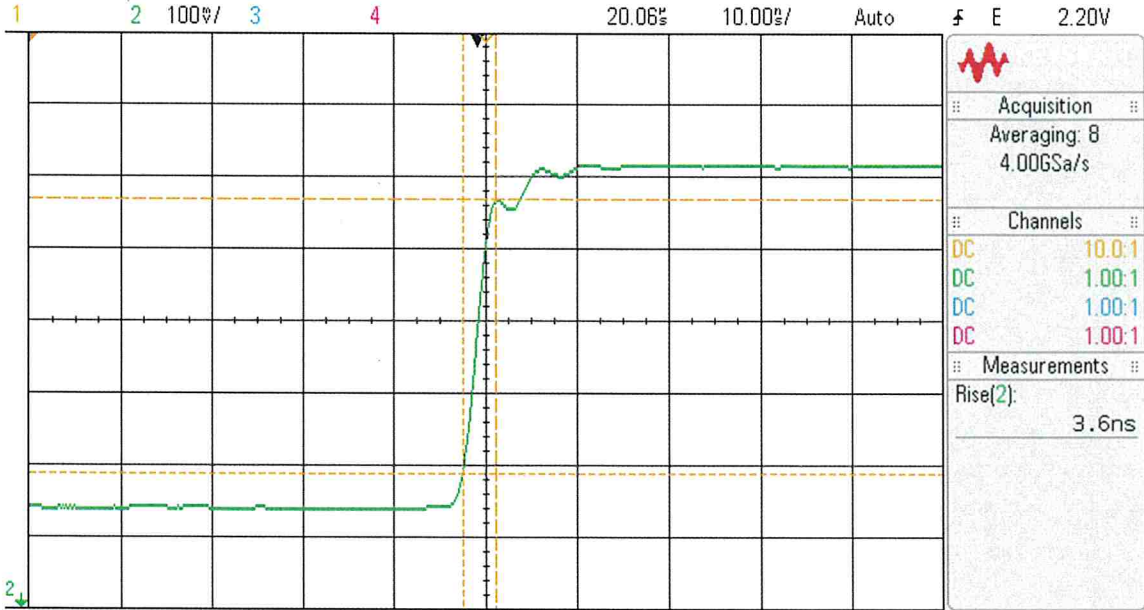


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Rise Time

DSO-X 3024A, MY54490369: Wed Jul 26 14:03:07 2023

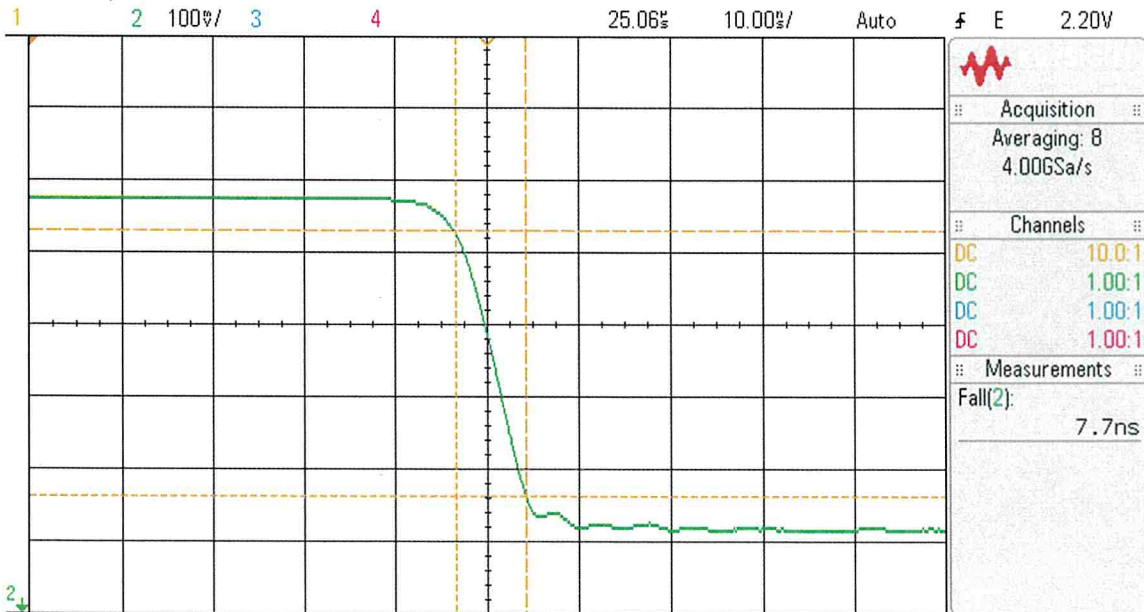


Acquire Menu

Acq Mode Averaging # Avgs 8 Segmented

Fall Time

DSO-X 3024A, MY54490369: Wed Jul 26 15:54:02 2023



Acquire Menu

Acq Mode Averaging # Avgs 8 Segmented

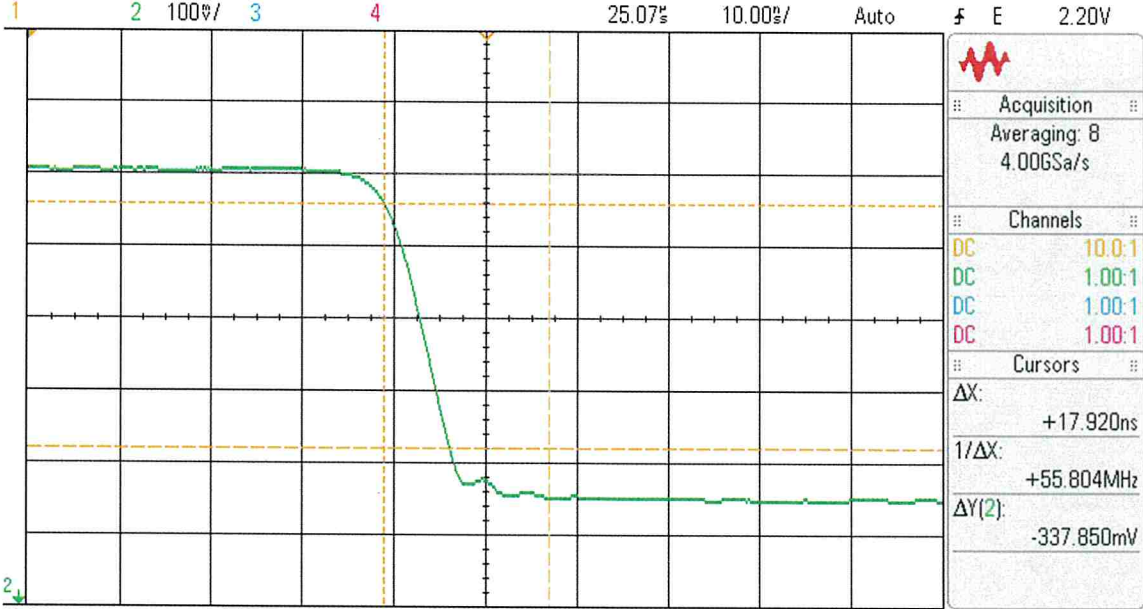


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Recovery Time

DSO-X 3024A, MY54490369: Wed Jul 26 16:55:13 2023

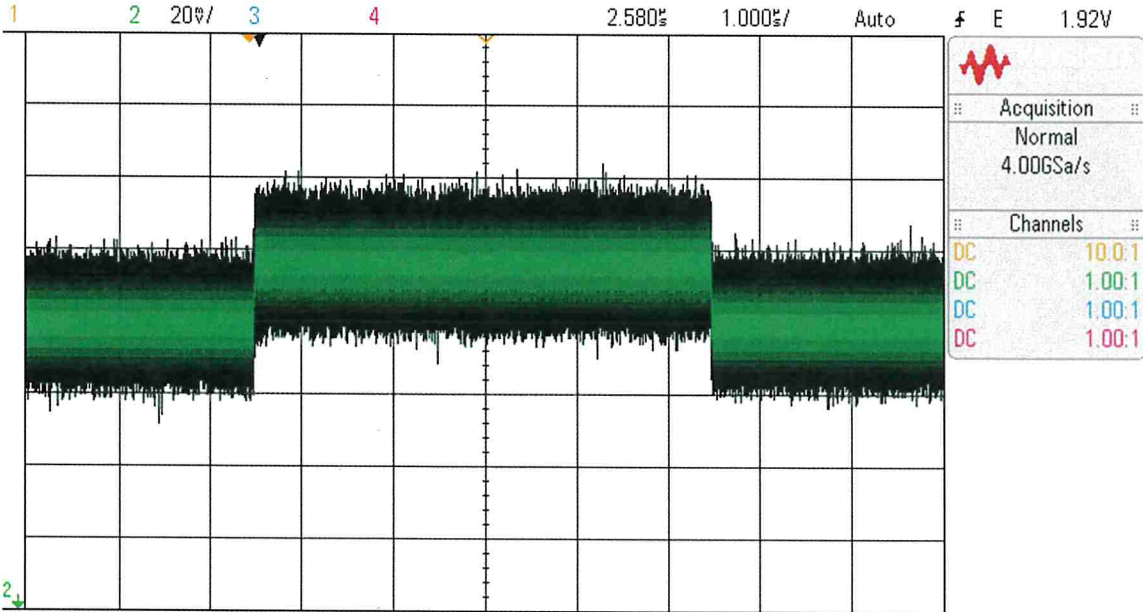


Help Menu

- Getting Started
- About Oscilloscope
- Language English
- Training Signals

TSS

DSO-X 3024A, MY54490369: Wed Jul 26 17:03:14 2023



Acquire Menu

- Acq Mode Normal
- # Avgs 8
- Segmented