

# SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: \_\_\_\_\_  
 SO: \_\_\_\_\_  
 MODEL NO: GMDA-S4080-60  
 SERIAL NO: PL40227/2317

TESTED BY: M. Ayala  
 TEMPERATURE: +25°C  
 DATE: 4/27/2023  
 DRAWING NO: 27645260      REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	4 GHz TO 8 GHz	4 GHz TO 8 GHz	QA3
2	TSS	-60 dBm Min	-67 dBm	
3	INPUT POWER HANDLING	+23 dBm CW	PASS	
3	VIDEO LOG RANGE	-55 dBm to +5 dBm	PASS	
4	VIDEO LOG LINEARITY	±1.85 dB Over Temp	1.24 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	24.9 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	0.8 dB	
7	VIDEO RISE TIME	30ns Max	11.5 ns	
9	VIDEO FALL TIME	80ns Max	64.5 ns	
10	RECOVERY TIME	100ns Max	95 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.64:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+300mA /-50mA	

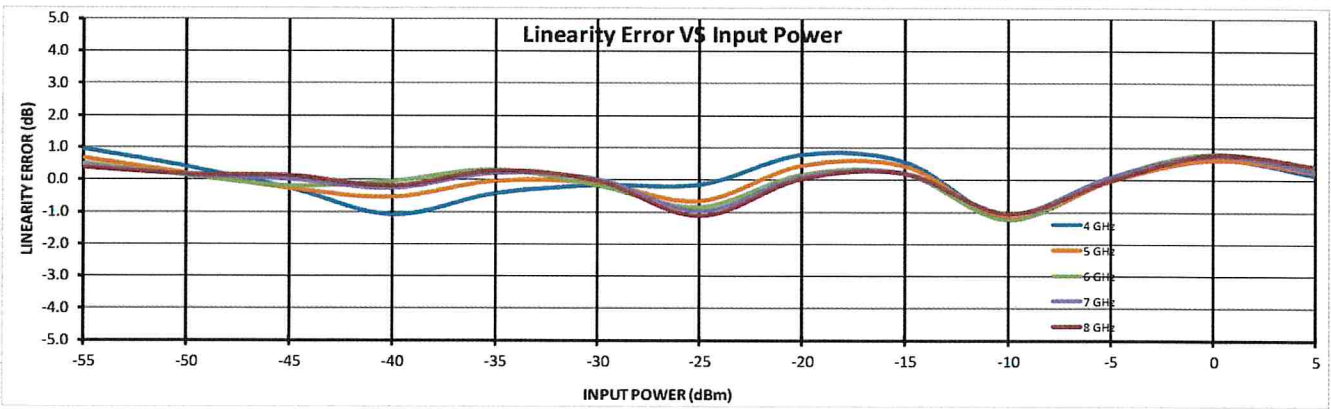
QA/QC Approval: *K. M. [Signature]*

Date: 4-28-23

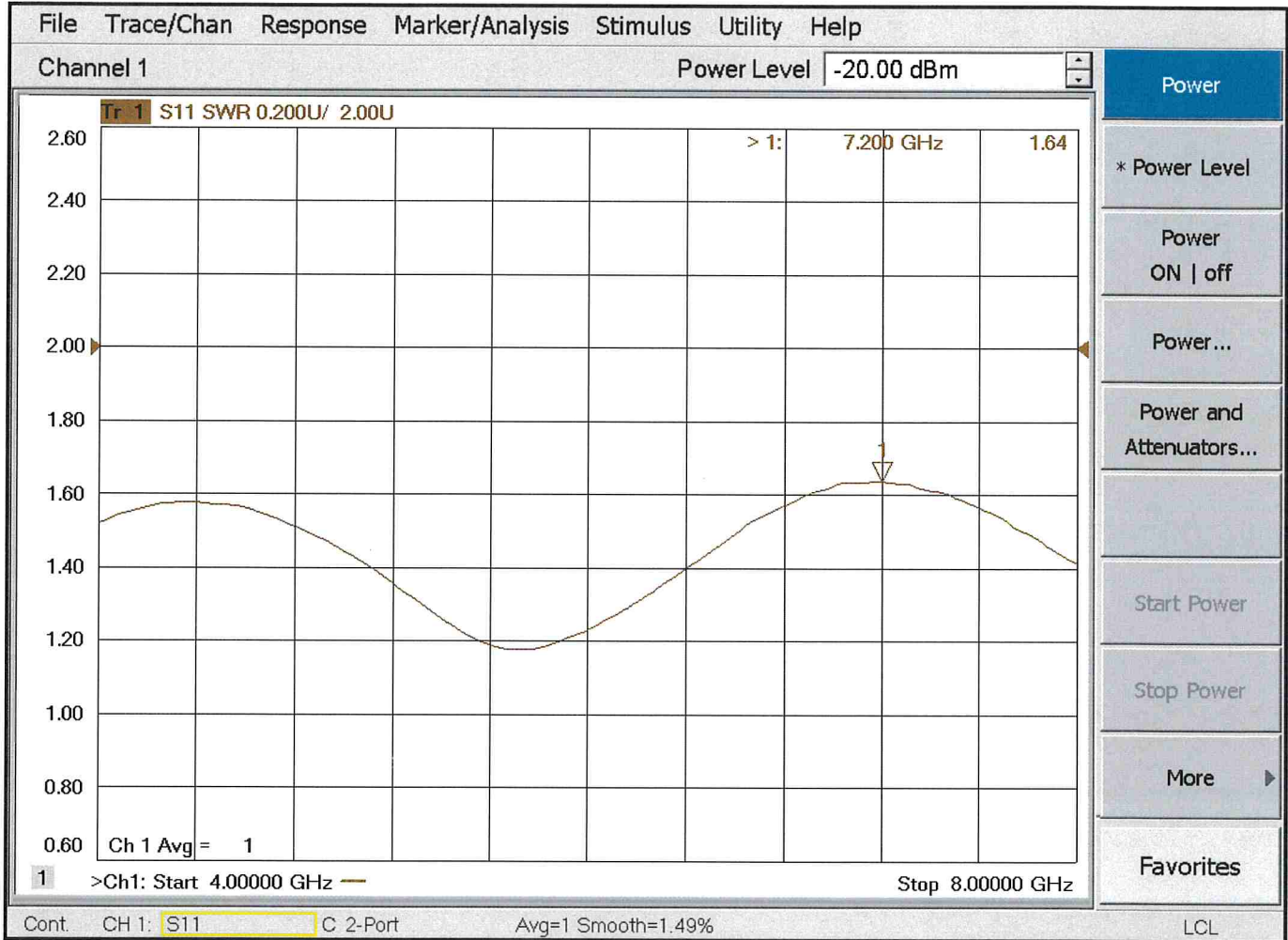


MODEL: GMDA-S4080-60  
SERIAL NO: PL40227  
DATE: 04-27-2023  
TESTED BY: M. Ayala  
TEST TEMP: +25°C

Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
4 GHz	INTERCEPT (mV)	1620													Measured Value (mV)	
	SLOPE (mV/dB)	24.9													Error (mV)	
	LIN. ERR. (dB)	1.2	0.94	0.39	-0.28	-1.10	-0.44	-0.19	-0.17	0.77	0.55	-1.20	-0.02	0.63	0.13	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	1617													Measured Value (mV)	
	SLOPE (mV/dB)	24.7													Error (mV)	
	LIN. ERR. (dB)	1.16	0.69	0.22	-0.25	-0.52	-0.02	-0.09	-0.64	0.47	0.44	-1.16	-0.02	0.64	0.25	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1622													Measured Value (mV)	
	SLOPE (mV/dB)	24.6													Error (mV)	
	LIN. ERR. (dB)	1.24	0.51	0.13	-0.20	-0.05	0.31	-0.19	-0.85	0.16	0.19	-1.24	0.09	0.81	0.32	LINEARITY ERROR (dB)
7 GHz	INTERCEPT (mV)	1618													Measured Value (mV)	
	SLOPE (mV/dB)	25.2													Error (mV)	
	LIN. ERR. (dB)	1.05	0.45	0.17	0.01	-0.27	0.21	0.01	-0.98	0.10	0.22	-1.05	0.10	0.77	0.26	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1610													Measured Value (mV)	
	SLOPE (mV/dB)	25													Error (mV)	
	LIN. ERR. (dB)	1.12	0.38	0.18	0.13	-0.19	0.29	-0.04	-1.12	0.04	0.19	-1.05	-0.01	0.78	0.42	LINEARITY ERROR (dB)
Avg. Slope: 24.9 mV/dB			0.7	0.6	0.5	0.8	0.6	0.4	0.7	0.6	0.4	0.2	0.3	0.2	0.1	Flatness dB: ±0.8 dB

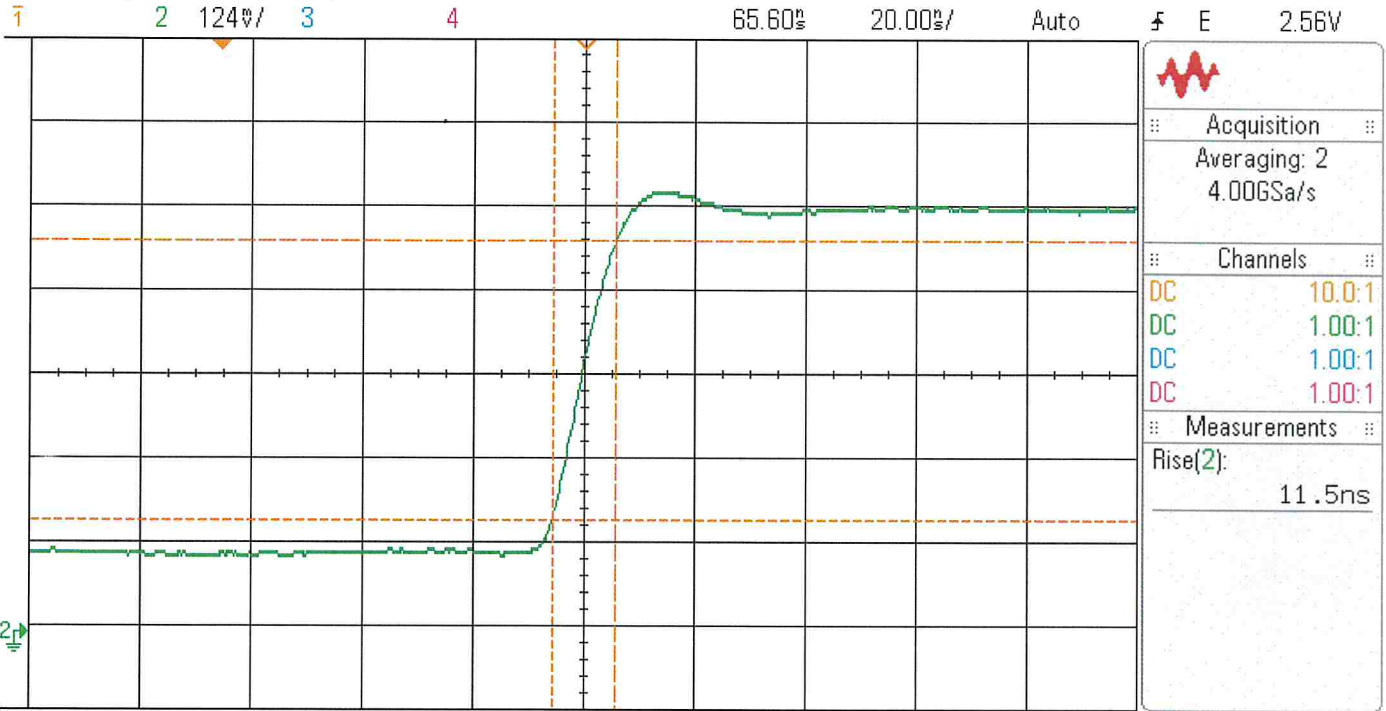


# VSWR



## Rise Time

DSO-X 3024A, MY54490369: Thu Apr 27 18:12:06 2023

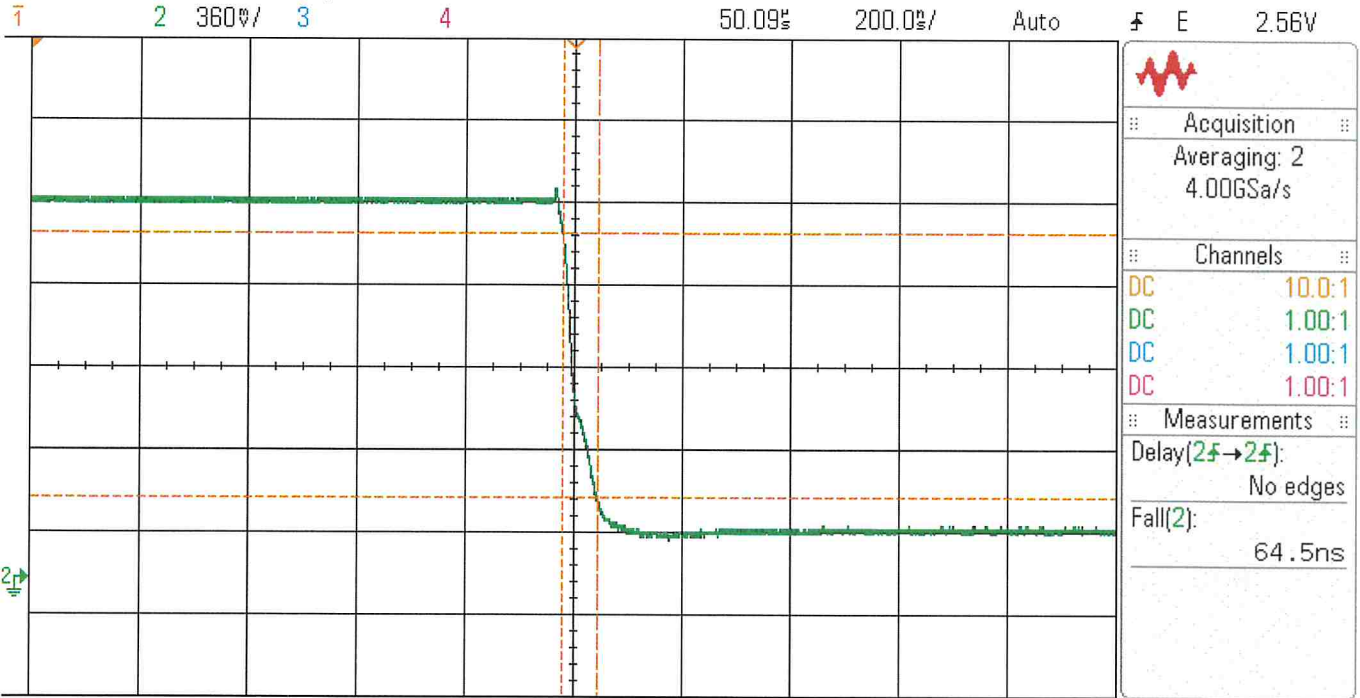


Clear Measurements Menu

Clear Meas 1 Rise(2)	Clear Meas 2 <None>	Clear Meas 3 <None>	Clear Meas 4 <None>	Clear All
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# Fall Time

DSO-X 3024A, MY54490369, Thu Apr 27 18:10:53 2023

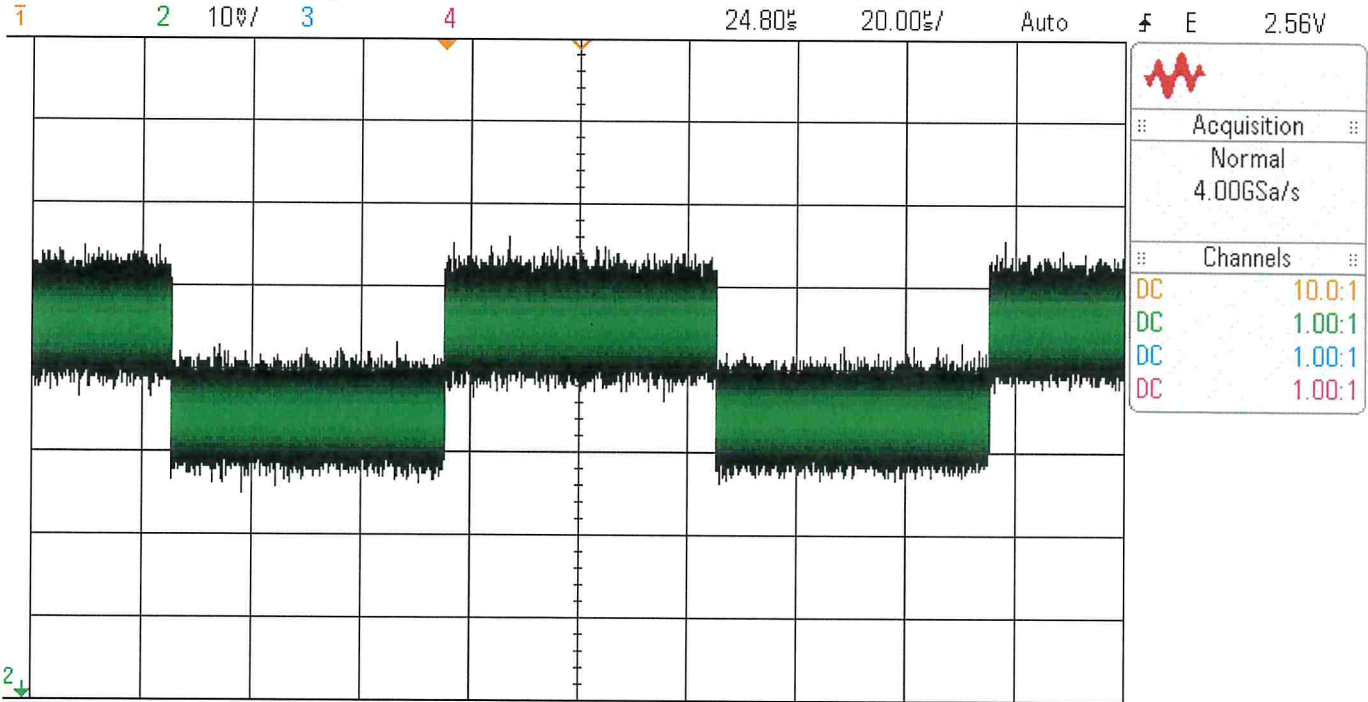


Measurement Menu

Source 2	Type: Fall	Add Measurement	Settings	Clear Meas	Statistics
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## TSS @ -67 dBm

DSO-X 3024A, MY54490369: Thu Apr 27 18:13:40 2023



Acquisition	
Normal	
4.00GSa/s	
Channels	
DC	10.0:1
DC	1.00:1
DC	1.00:1
DC	1.00:1

Acquire Menu

Acq Mode Normal # Avgs 2

Segmented