

# SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: \_\_\_\_\_  
 SO: \_\_\_\_\_  
 MODEL NO: GMDA-S4080-60  
 SERIAL NO: PL40220/2317

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	1.0 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	24.8 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	0.8 dB	
7	VIDEO RISE TIME	30ns Max	11.8ns	
9	VIDEO FALL TIME	80ns Max	79.8ns	
10	RECOVERY TIME	100ns Max	95 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.60:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+300mA /-50mA	

QA/QC Approval: K. Mattern

Date: 4-28-23

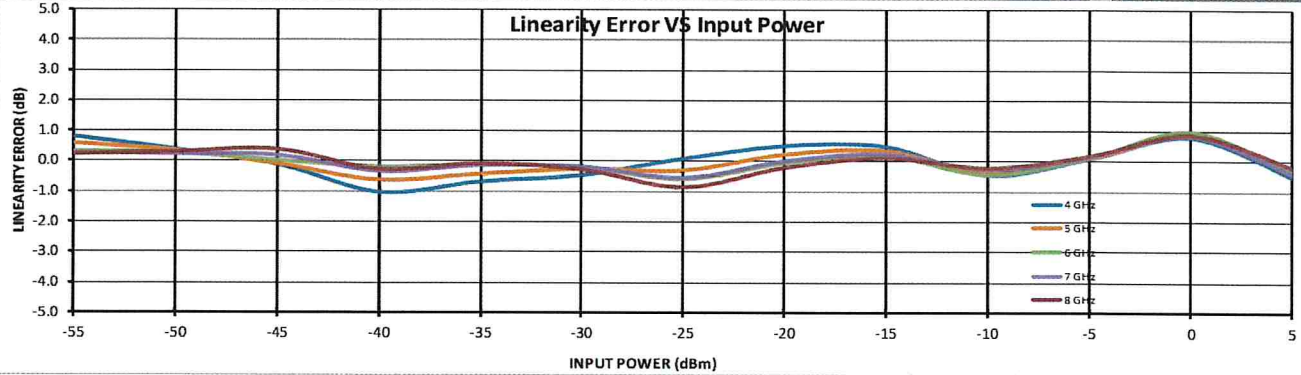


MODEL: GMDA-S4080-60  
SERIAL NO: PL40220  
DATE: 04-25-2023  
TESTED BY: J. Emperador  
TEST TEMP: +25°C

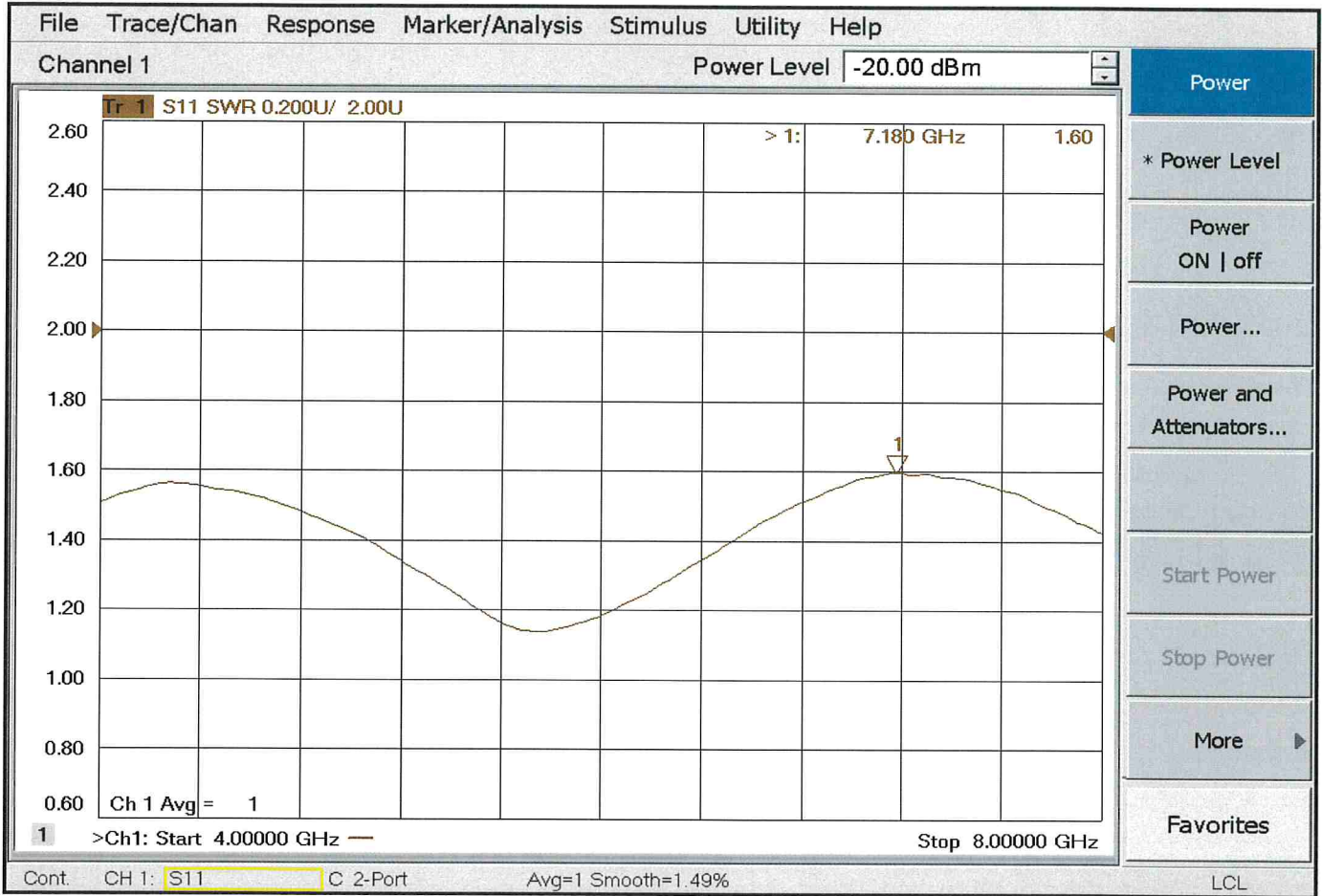
Vos= 93 mV

Frequency

		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	242 356 468 570 703 833 971 1106 1230 1331 1469 1611 1703													Measured Value (mV)
	SLOPE (mV/dB)	20 10 -3 -25 -17 -11 2 13 12 -11 2 20 -13													Error (mV)
	LIN. ERR. (dB)	0.81 0.39 -0.11 -1.01 -0.67 -0.45 0.09 0.52 0.50 -0.45 0.10 0.80 -0.50													LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	251 368 480 590 718 845 967 1103 1229 1334 1469 1610 1702													Measured Value (mV)
	SLOPE (mV/dB)	15 9 -2 -15 -10 -6 -7 6 9 -9 3 21 -10													Error (mV)
	LIN. ERR. (dB)	0.59 0.35 -0.10 -0.62 -0.42 -0.26 -0.30 0.23 0.35 -0.38 0.11 0.84 -0.42													LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	254 375 491 608 732 852 965 1100 1228 1335 1471 1614 1704													Measured Value (mV)
	SLOPE (mV/dB)	8 7 1 -5 -3 -5 -14 -1 -4 -11 3 24 -8													Error (mV)
	LIN. ERR. (dB)	0.32 0.28 0.02 -0.19 -0.11 -0.20 -0.58 -0.05 0.18 -0.44 0.13 0.98 -0.34													LINEARITY ERROR (dB)
7 GHz	INTERCEPT (mV)	219 343 467 579 709 833 949 1088 1219 1331 1467 1609 1703													Measured Value (mV)
	SLOPE (mV/dB)	7 6 5 -9 -4 -5 -14 0 6 -7 4 21 -10													Error (mV)
	LIN. ERR. (dB)	0.27 0.23 0.18 -0.34 -0.14 -0.19 -0.55 0.01 0.24 -0.28 0.16 0.83 -0.41													LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	221 347 473 581 710 829 939 1079 1211 1327 1461 1602 1700													Measured Value (mV)
	SLOPE (mV/dB)	8 8 10 -7 -2 -7 -21 -5 3 -5 4 21 -5													Error (mV)
	LIN. ERR. (dB)	0.23 0.31 0.38 -0.27 -0.07 -0.28 -0.85 -0.21 0.11 -0.22 0.18 0.86 -0.19													LINEARITY ERROR (dB)
Avg. Slope: 24.8 mV/dB		0.7	0.6	0.5	0.8	0.6	0.5	0.6	0.5	0.4	0.2	0.2	0.2	0.1	Flatness dB: ±0.8 dB



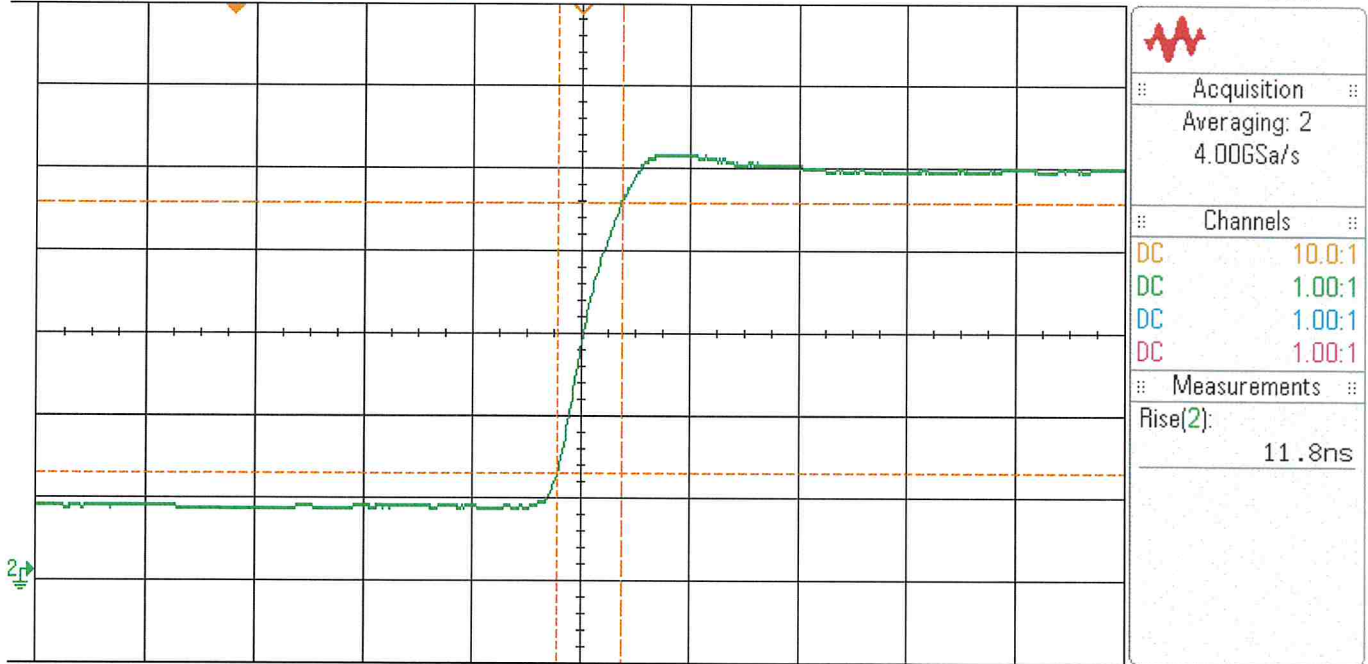
# VSWR



# Rise Time

DSO-X 3024A, MY54490369: Thu Apr 27 18:18:22 2023

1 2 120V/ 3 4 64.20ns 20.00ns/ Auto f E 2.56V



Acquisition	
Averaging:	2
Sample Rate:	4.00GSa/s
Channels	
DC	10.0:1
DC	1.00:1
DC	1.00:1
DC	1.00:1
Measurements	
Rise(2):	11.8ns

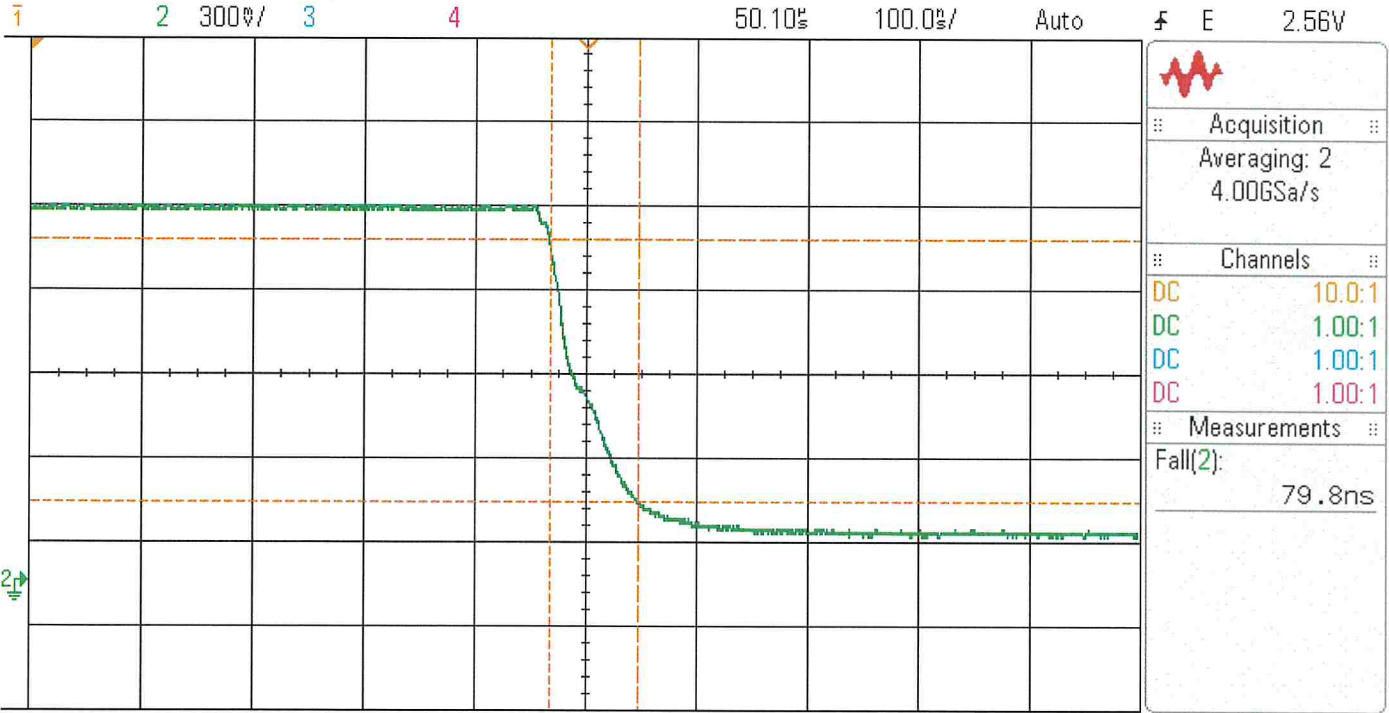
Clear Measurements Menu

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 18:24:35 2023



Clear Measurements Menu

Clear Meas 1 Fall(2)	Clear Meas 2 <None>	Clear Meas 3 <None>	Clear Meas 4 <None>	Clear All
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## TSS @ -67 dBm

DSO-X 3024A, MY54490369: Thu Apr 27 18:16:52 2023

