

# SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: \_\_\_\_\_  
SO: \_\_\_\_\_  
MODEL NO: GMDA-S4080-60  
SERIAL NO: PL46311/2423

TESTED BY: DA  
TEMPERATURE: +25°C  
DATE: 6/7/2024  
DRAWING NO: 27645260  
REV: B1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	4 GHz TO 8 GHz	4 GHz TO 8 GHz	PMI QA3
2	TSS	-60 dBm Min	-68 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	+ 1.15/ -0.95	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	25 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	± 0.7 dB	
7	VIDEO RISE TIME	30ns Max	9.8 ns	
9	VIDEO FALL TIME	80ns Max	68.8 ns	
10	RECOVERY TIME	100ns Max	<100 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.62:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+306mA /-48mA	

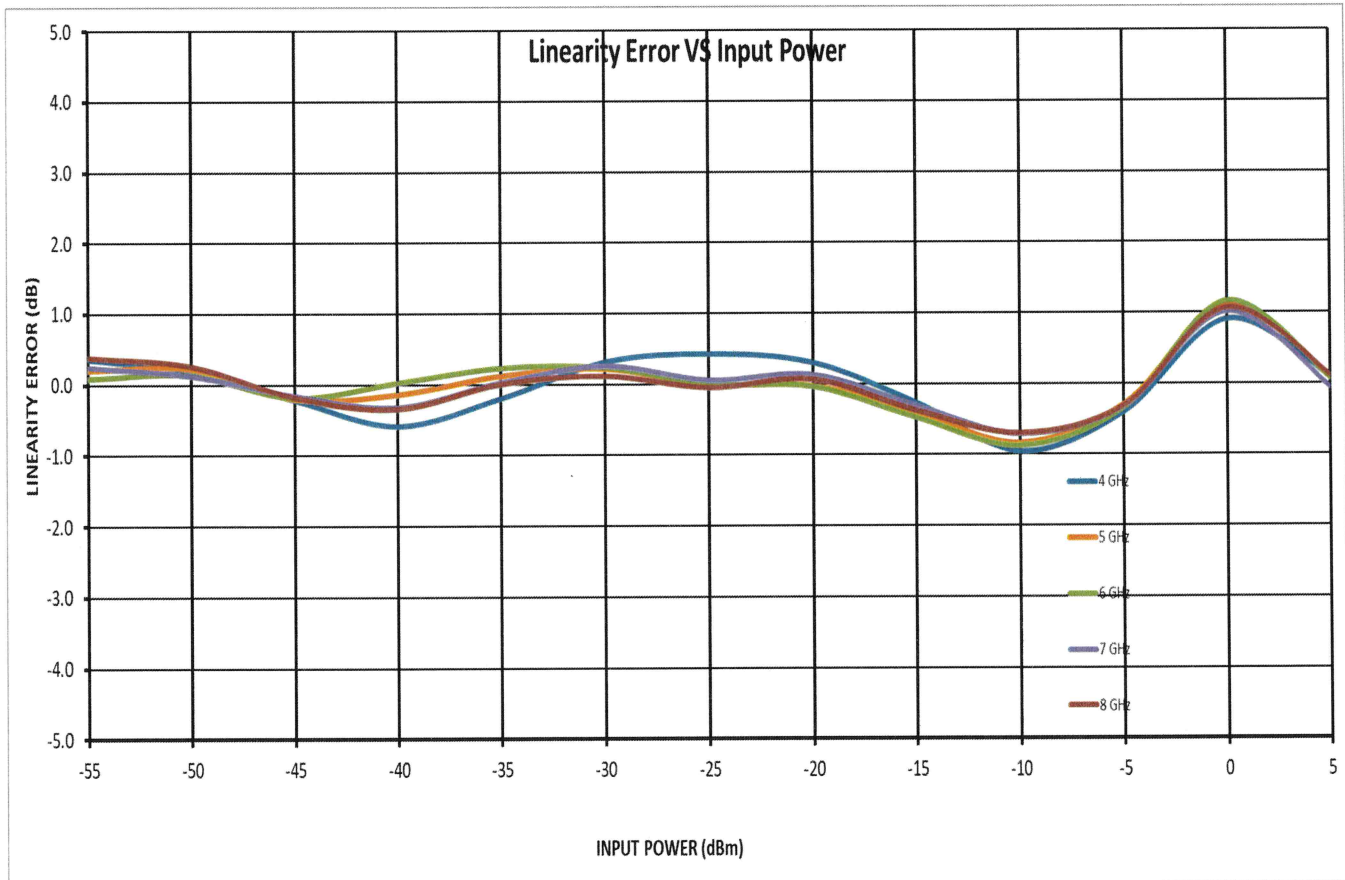
QA/QC Approval: H. [Signature]

Date: 6-11-24

MODEL: GMDA-S4080-60  
SERIAL NO: PL46311  
DATE: 06-03-2024  
TESTED BY: DA  
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)	239 360 475 591 726 864 992 1114 1225 1333 1472 1630 1735													Measured Value (mV)
	SLOPE (mV/dB)	9 5 -5 -15 -5 8 11 8 -7 -24 -10 23 3													Error (mV)
	LIN. ERR. (dB)	0.36 0.19 -0.22 -0.58 -0.19 0.32 0.43 0.30 -0.27 -0.95 -0.40 0.91 0.10													LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	256 380 493 618 748 874 992 1115 1229 1342 1479 1637 1736													Measured Value (mV)
	SLOPE (mV/dB)	5 5 -5 -4 3 5 0 -1 -10 -21 -7 27 3													Error (mV)
	LIN. ERR. (dB)	0.20 0.22 -0.21 -0.15 0.12 0.21 -0.01 -0.03 -0.42 -0.84 -0.30 1.10 0.10													LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	252 377 493 622 751 875 993 1116 1229 1343 1480 1641 1738													Measured Value (mV)
	SLOPE (mV/dB)	2 3 -5 1 6 6 0 -1 -12 -22 -9 29 2													Error (mV)
	LIN. ERR. (dB)	0.09 0.13 -0.19 0.02 0.23 0.23 0.00 -0.04 -0.48 -0.88 -0.35 1.15 0.07													LINEARITY ERROR (dB)
7 GHz	INTERCEPT (mV)	219 343 463 586 722 855 977 1106 1222 1339 1476 1637 1737													Measured Value (mV)
	SLOPE (mV/dB)	6 3 -4 -8 1 7 1 3 -8 -18 -8 26 -1													Error (mV)
	LIN. ERR. (dB)	0.25 0.12 -0.16 -0.32 0.03 0.26 0.06 0.13 -0.31 -0.71 -0.32 1.01 -0.05													LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	229 352 467 589 724 853 975 1104 1219 1337 1473 1634 1736													Measured Value (mV)
	SLOPE (mV/dB)	10 6 -5 -9 0 3 -1 2 -10 -18 -8 27 3													Error (mV)
	LIN. ERR. (dB)	0.38 0.26 -0.19 -0.35 0.00 0.11 -0.05 0.06 -0.38 -0.70 -0.31 1.07 0.11													LINEARITY ERROR (dB)
Avg. Slope: 25 mV/dB		0.7	0.7	0.6	0.7	0.6	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.1	Flatness dB: ±0.7 dB



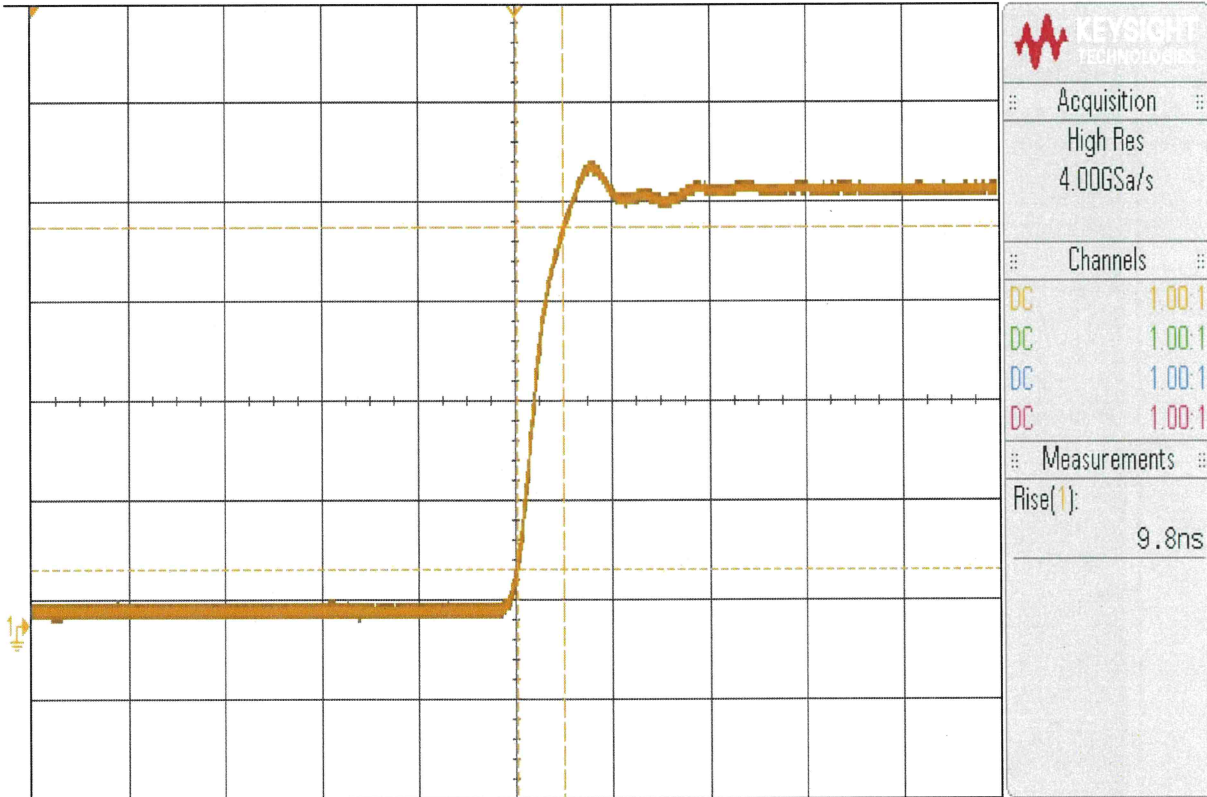
# VSWR 1.62:1



# Rise Time

DSO-X 3024A, MY54490369: Wed Jun 05 13:25:03 2024

1 124V/ 2 3 4 50.03% 20.00%/ Auto E 3.37V



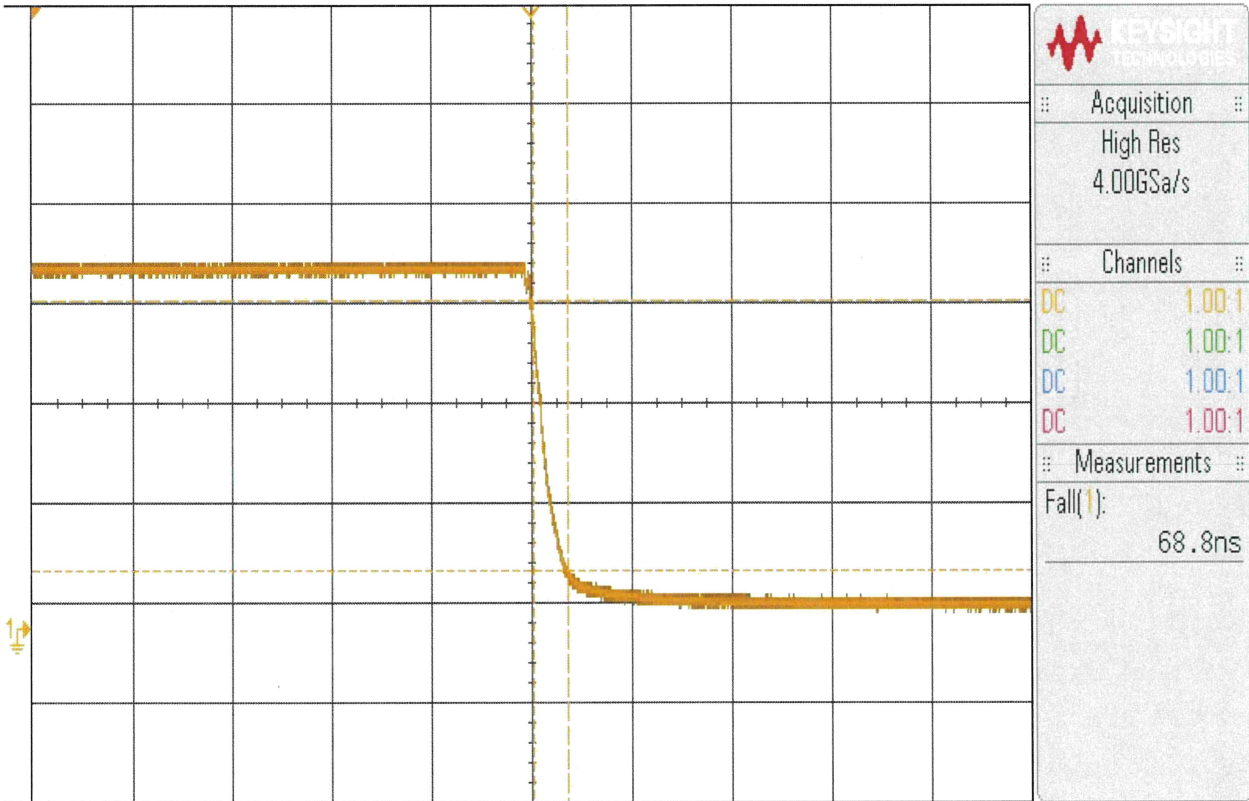
Measurement Menu

Source | Type: Rise | Add Measurement | Settings | Clear Meas | Statistics

# Fall Time

DSO-X 3024A, MY54490369: Wed Jun 05 13:27:53 2024

1 360V/ 2 3 4 100.0% 200.0%/ Auto 7 E 3.37V



Acquire Menu

Acq Mode  
High Res

# Avgs  
1

Segmented  
↓

## TSS @ - 68dBm

DSO-X 3024A, MY54490369, Wed Jun 05 13:31:40 2024

