

SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: _____
SO: _____
MODEL NO: GMDA-S4080-60
SERIAL NO: PL46312/2423

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	-69 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	+1.16/ -0.75	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	25.2 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	±0.9 dB	
7	VIDEO RISE TIME	30ns Max	11.0 ns	
9	VIDEO FALL TIME	80ns Max	72.3 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	1.82:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+366mA /-48mA	

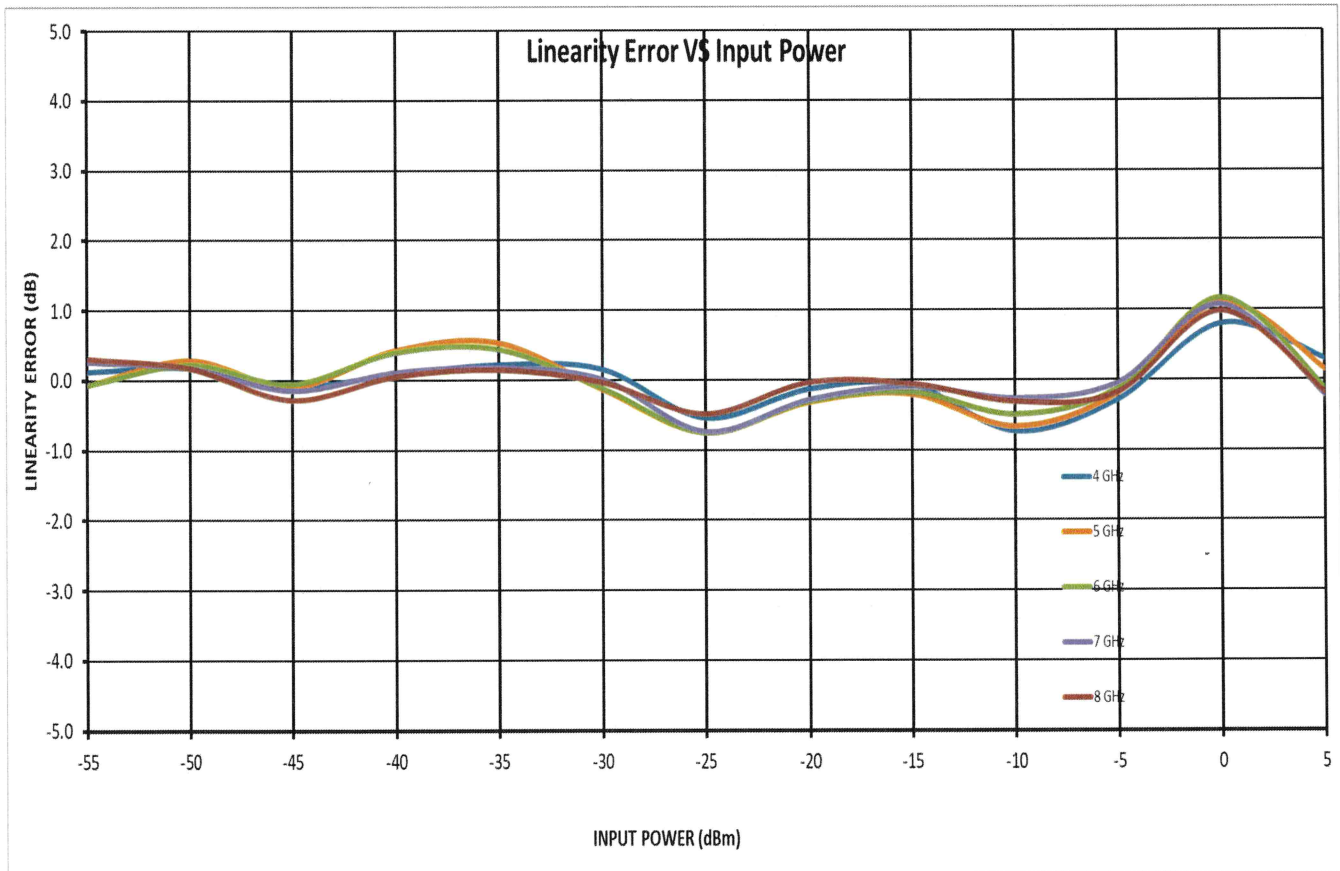
QA/QC Approval: *K. [Signature]*

Date: 6-11-24

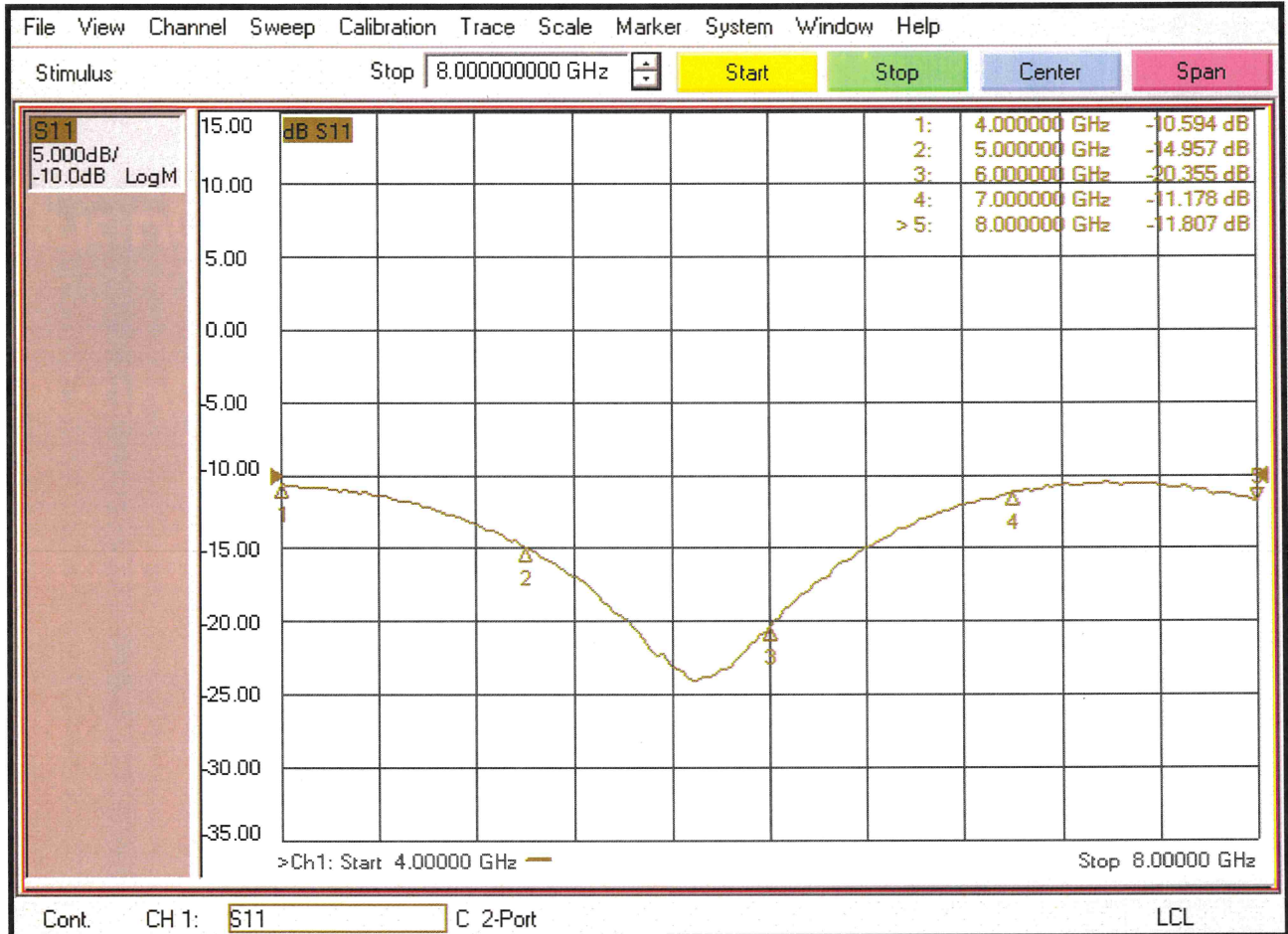
MODEL: GMDA-S4080-60
SERIAL NO: PL46312
DATE: 06-04-2024
TESTED BY: DA
TEST TEMP: +25°C



Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	1714													Measured Value (mV)
	SLOPE (mV/dB)	25.1													Error (mV)
	LIN. ERR. (dB)	0.8													LINEARITY ERROR (dB)
		335	462	581	711	840	964	1072	1208	1335	1444	1581	1734	1847	
		3	4	-2	2	6	4	-14	-3	-2	-19	-7	20	8	
		0.12	0.18	-0.09	0.09	0.22	0.16	-0.54	-0.13	-0.08	-0.74	-0.29	0.80	0.30	
5 GHz	INTERCEPT (mV)	1726													Measured Value (mV)
	SLOPE (mV/dB)	24.7													Error (mV)
	LIN. ERR. (dB)	1.09													LINEARITY ERROR (dB)
		368	500	614	750	876	983	1091	1225	1351	1463	1598	1753	1853	
		-2	7	-2	10	13	-3	-19	-8	-5	-17	-5	27	4	
		-0.07	0.28	-0.10	0.42	0.53	-0.13	-0.75	-0.32	-0.21	-0.67	-0.20	1.09	0.14	
6 GHz	INTERCEPT (mV)	1735													Measured Value (mV)
	SLOPE (mV/dB)	25													Error (mV)
	LIN. ERR. (dB)	1.16													LINEARITY ERROR (dB)
		360	492	610	746	872	983	1092	1228	1356	1473	1607	1764	1857	
		-2	6	-1	10	11	-3	-19	-8	-4	-12	-3	29	-3	
		-0.07	0.22	-0.05	0.39	0.44	-0.12	-0.75	-0.31	-0.18	-0.49	-0.13	1.16	-0.12	
7 GHz	INTERCEPT (mV)	1733													Measured Value (mV)
	SLOPE (mV/dB)	25.7													Error (mV)
	LIN. ERR. (dB)	1.07													LINEARITY ERROR (dB)
		329	455	575	710	840	964	1073	1213	1346	1470	1604	1761	1856	
		7	4	-4	3	5	0	-19	-7	-3	-7	-1	28	-6	
		0.26	0.17	-0.15	0.11	0.18	0.01	-0.74	-0.28	-0.10	-0.27	-0.05	1.07	-0.22	
8 GHz	INTERCEPT (mV)	1731													Measured Value (mV)
	SLOPE (mV/dB)	25.5													Error (mV)
	LIN. ERR. (dB)	0.97													LINEARITY ERROR (dB)
		336	460	576	712	842	965	1081	1220	1347	1468	1599	1756	1854	
		8	4	-7	1	4	-1	-13	-1	-2	-8	-5	25	-5	
		0.30	0.16	-0.29	0.04	0.14	-0.04	-0.49	-0.04	-0.06	-0.32	-0.18	0.97	-0.19	
	Avg. Slope: 25.2 mV/dB	0.8	0.9	0.8	0.8	0.7	0.4	0.4	0.4	0.4	0.6	0.5	0.6	0.2	Flatness dB: ±0.9 dB

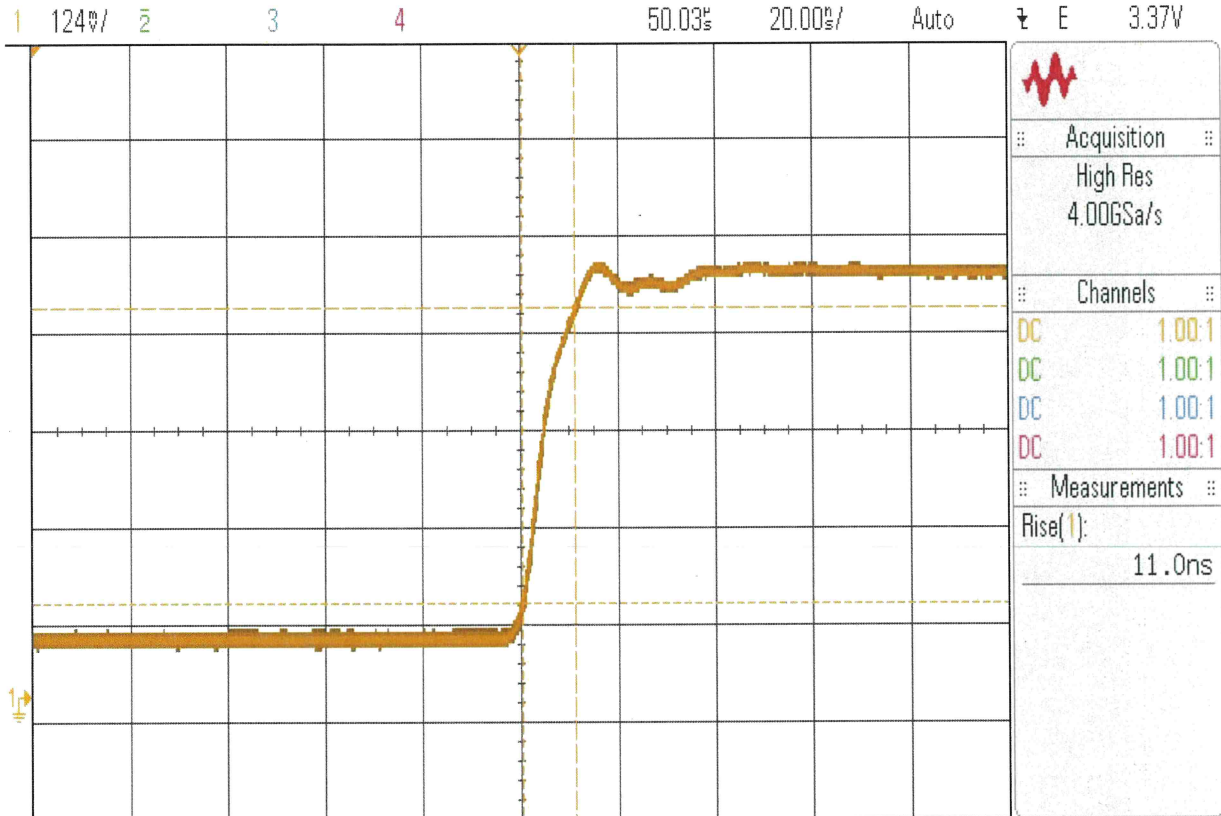


VSWR 1.82:1



Rise Time

DSO-X 3024A, MY54490369: Wed Jun 05 13:37:54 2024



Save to file = pl46312_rise

Spell

Enter

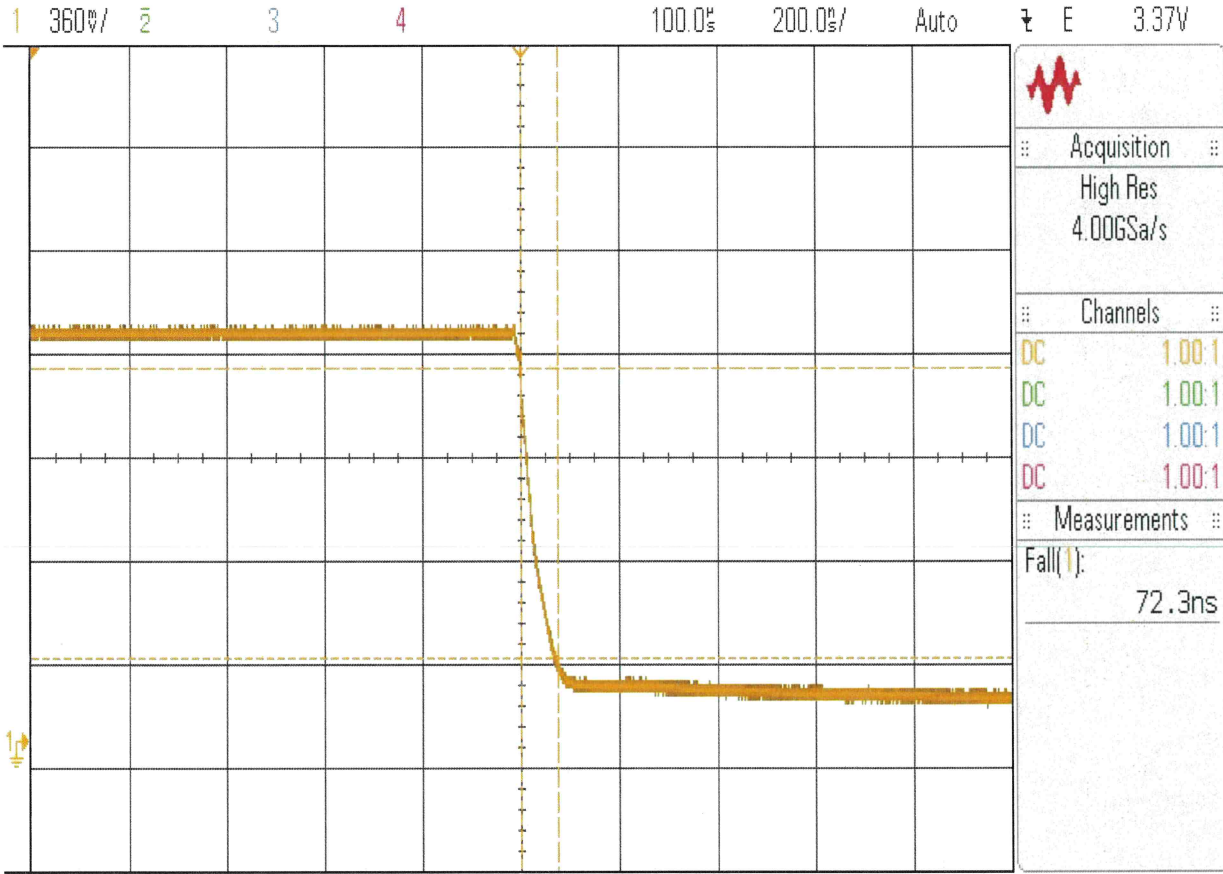
Delete Character

Increment

Press to Save

Fall Time

DSO-X 3024A, MY54490369: Wed Jun 05 13:41:41 2024



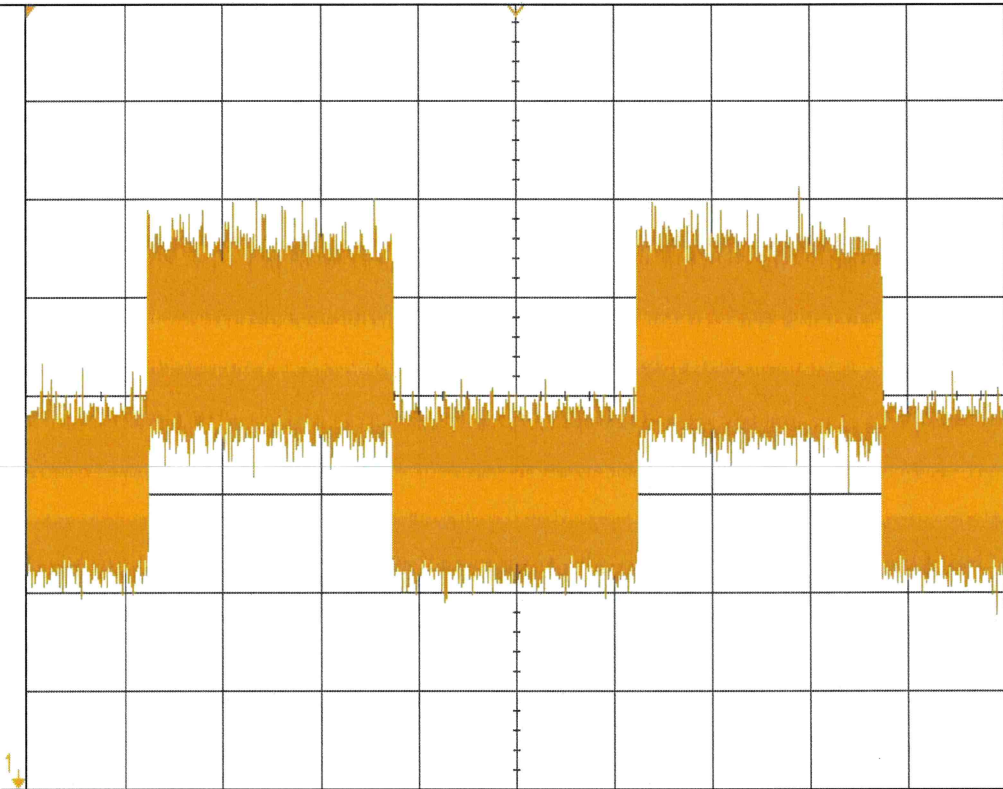
Measurement Menu

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

TSS @ - 69dBm

DSO-X 3024A, MY54490369: Wed Jun 05 13:43:57 2024

1 10% / 2 3 4 125.2% 20.00% / Auto E 3.37V



Acquisition
High Res
4.00GSa/s

Channels

DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1

Save to file = pl46312_tss_69

Save

Recall

Default/Erse

Press to Save