

DAC_A measurement results (preliminary results)

IBIAS_A current measured between the terminals of resistor of 759 kohm

parameter	PCB N°2 A1	PCB N°3 A4	PCB N°4 A1	PCB N°5 B1
IBIAS_A current (nA)	820	790	800	810

parameter	PCB N°2 A1	PCB N°3 A4	PCB N°4 A1	PCB N°5 B1	Mean	Sigma
min output (mV)	0.18	0.14	0.16	0.17	0.16	0.018
max output (mV)	511.12	520.62	500.19	527.91	514.96	12.01
Gain, LSB (mV)	2.001	2.043	1.964	2.066	2.018	0.045
offset output (mV)	0.764	0.429	0.672	0.045	0.478	0.322
Matlab polyfit, 1-R2	5.06E-06	1.10E-05	1.55E-05	6.06E-06	9.41E-06	4.82E-06
max sigma (mV)	0.048	0.026	0.054	0.116	0.061	0.039
max INL error (LSB)	0.388	0.556	0.815	0.472	0.558	0.185
max DNL error (LSB)	0.394	0.281	0.524	0.307	0.376	0.109
LSB current (A)	3.93E-08	4.01E-08	3.85E-08	4.05E-08	3.96E-08	9.02E-10
offset current (A)	1.50E-08	8.43E-09	1.32E-08	8.74E-10	9.37E-09	6.31E-09
max current (A)	1.00E-05	1.02E-05	9.82E-06	1.04E-05	1.01E-05	2.38E-07

DAC_B measurement results (preliminary results)

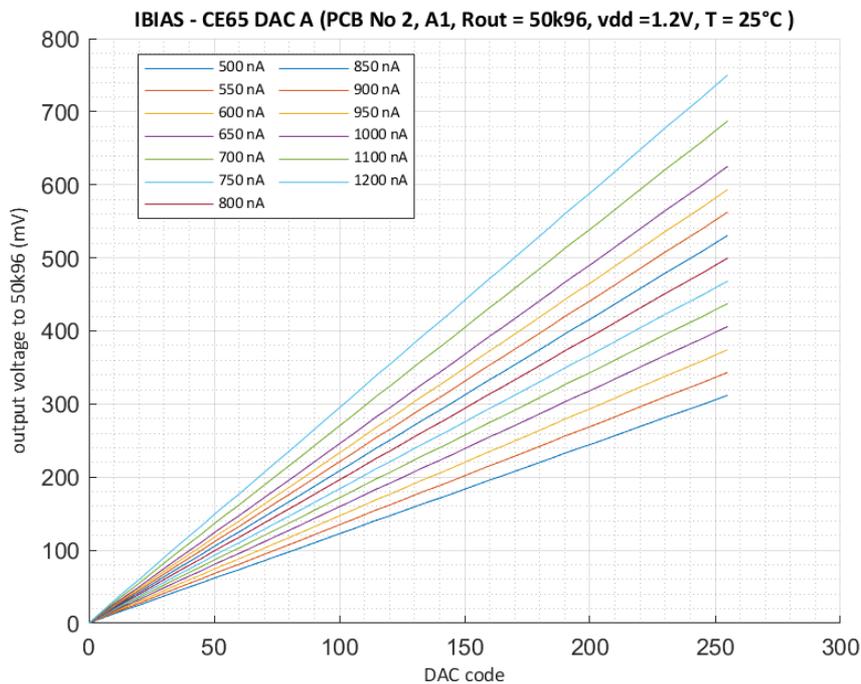
IBIAS_A current measured between the terminals of resistor of 56.7 kohm

parameter	PCB N°2 A1	PCB N°3 A4	PCB N°4 A1	PCB N°5 B1
IBIAS_B current (uA)	10.8	10.6	10.8	10.8

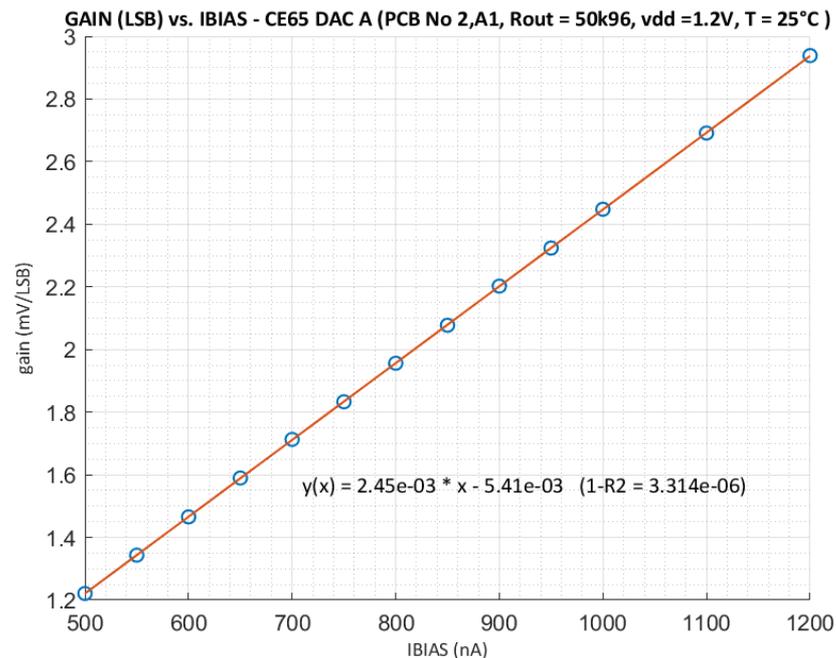
parameter	PCB N°2 A1	PCB N°3 A4	PCB N°4 A1	PCB N°5 B1	Mean	Sigma
min output (mV)	0.19	0.14	0.17	0.18	0.17	0.023
max output (mV)	526.02	520.62	526.22	523.76	524.155	2.61
Gain, LSB (mV)	2.064	2.043	2.065	2.049	2.055	0.011
offset output (mV)	0.477	0.429	0.140	0.335	0.345	0.149
Matlab polyfit, 1-R2	6.37E-06	1.10E-05	1.89E-06	1.47E-05	8.50E-06	5.58E-06
max sigma (mV)	0.022	0.026	0.023	0.027	0.025	0.002
max INL error (LSB)	0.467	0.556	0.282	0.626	0.483	0.149
max DNL error (LSB)	0.277	0.281	0.204	0.300	0.265	0.042
LSB current (A)	4.06E-08	4.01E-08	4.06E-08	4.03E-08	4.04E-08	2.15E-10
offset current (A)	9.37E-09	8.43E-09	2.75E-09	6.57E-09	6.78E-09	2.93E-09
max current (A)	1.03E-05	1.02E-05	1.03E-05	1.03E-05	1.03E-05	5.12E-08

DAC_A: CONVERSION GAIN V_{out}/I_{bias} (preliminary results)

Transfer Curve



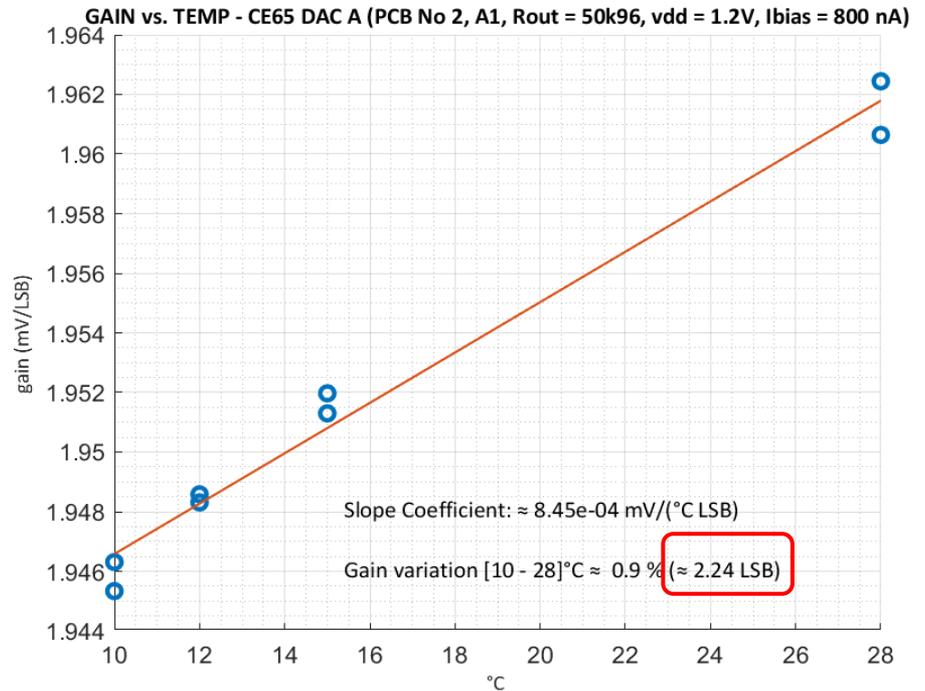
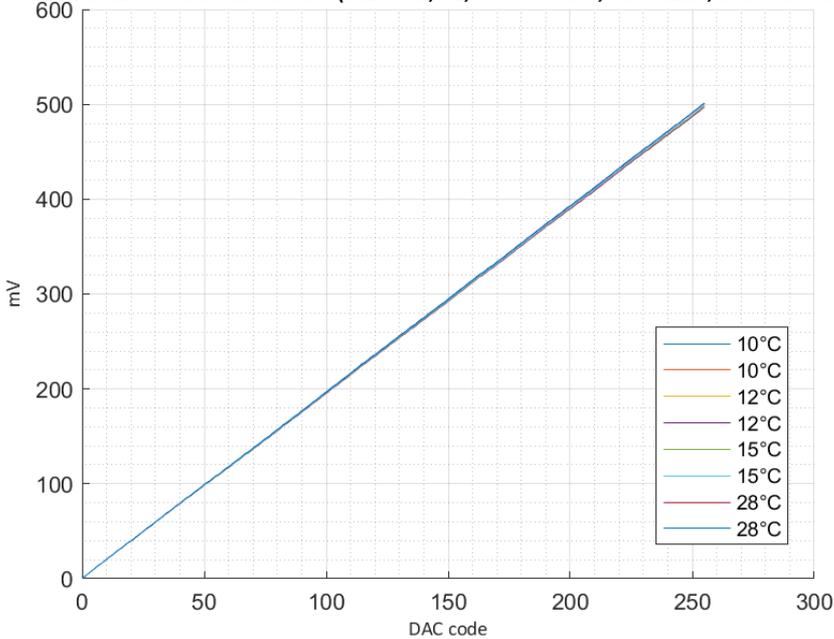
Conversion Gain (mV/LSB) versus IBIAS current



DAC_A: TEMPERATURE STABILITY (1/2) (preliminary results)

Transfer Curve with the constant of current of 800 nA

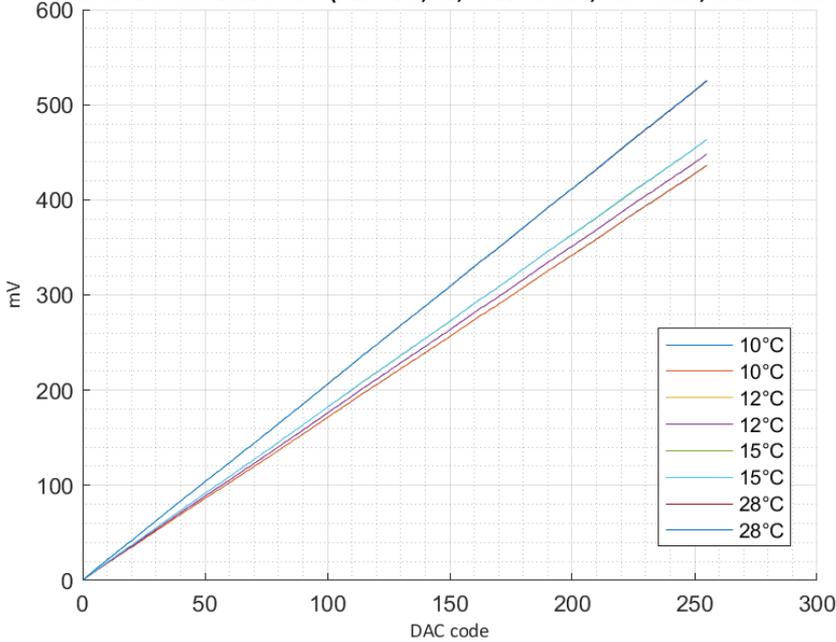
TRANSFER CURVE - CE65 DAC A (PCB No 2, A1, Rout = 50k96, vdd = 1.2V, Ibias = 800 nA)



DAC_A: TEMPERATURE STABILITY (2/2) (preliminary results)

Transfer Curve with the constant of voltage of 0.582 mV

TRANSFER CURVE - CE65 DAC A (PCB No 2, A1, Rout = 50k96, vdd = 1.2V, IbiasV = 582 mV)



GAIN vs. TEMP - CE65 DAC A (PCB No 2, A1, Rout = 50k96, vdd = 1.2V, IbiasV = 582 mV)

