EXHIBIT B

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Multipliers

Name	Symbol	Value
terra	T	1012
giga	G	109
mega	M (MEG in SPICE)	10^{6}
kilo	k	IO^3
milli	m	10^{-3}
micro	μ (or u)	10^{-6}
nano	n	10-9
pico	р	10^{-12}
femto	f	10-15
atto	a (not used in SPICE)	10^{-18}

Physical Constants

Name	Symbol	Value/Units
Vacuum dielectric constant	ϵ_0	8.85 aF/μm
Silicon dielectric constant	ε _{si}	11.7ε ₀
SiO ₂ dielectric constant	ε _{ox}	$3.97\epsilon_0$
SiN ₃ dielectric constant	$\epsilon_{\rm Ni}$	$16\epsilon_{_0}$
Boltzmann's constant	k	$1.38 \times 10^{-23} \text{ J/K}$
Electronic charge	q	$1.6 \times 10^{-19} \mathrm{C}$
Temperature	Т	Kelvin
Thermal voltage	V_{T}	kT/q = 26 mV @ 300 K



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