

15 Flicker and Thermal Noise Model Parameters

Parameter Name	Description	Default Value
NOIA	Flicker noise parameter A	$6.25e41(eV)^{-1}s^{1-EF}m^{-3}$ for NMOS; $6.188e40(eV)^{-1}s^{1-EF}m^{-3}$ for PMOS
NOIB	Flicker noise parameter B	$3.125e26(eV)^{-1}s^{1-EF}m^{-1}$ for NMOS; $1.5e25(eV)^{-1}s^{1-EF}m^{-1}$ for PMOS
NOIC	Flicker noise parameter C	$8.75(eV)^{-1}s^{1-EF}m$
EM	Saturation field	4.1e7V/m
AF	Flicker noise exponent	1.0
EF	Flicker noise frequency exponent	1.0
KF	Flicker noise coefficient	$0.0^{A2-EF}s^{1-EF}$
LINTNOI	Length Reduction Parameter Offset	0.0 m
NTNOI	Noise factor for short-channel devices for TNOIMOD=0 only	1.0
TNOIA	Coefficient of channel-length dependence of total channel thermal noise	1.5
TNOIB	Channel-length dependence parameter for channel thermal noise partitioning	3.5
TNOIC	Length dependent parameter for Correlation Coefficient	0
RNOIA	Thermal Noise Coefficient	0.577
RNOIB	Thermal Noise Coefficient	0.5164
RNOIC	Correlation Coefficient parameter	0.395