





- Noise sets the lower limit for signal amplification and detection, whereas upper limit is set by device non linearity
- Reduction of supply voltage in deep submicron CMOS technologies reduces upper limit and forces noise to become smaller at the cost of a higher power consumption
- Flicker noise largely dominates at low frequency (below the corner frequency), particularly for deep submicron CMOS
- Thermal noise dominates at HF and is hence important for RF IC design
- Thermal noise dominated by the intrinsic channel noise (~90%)
- It is therefore crucial to properly model thermal and flicker noise for analog and RF IC design



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