

Overview npn13g2l

- In previous releases low-frequency noise parameters included only in VBIC model
 - Parameter (kfn, afn) based on old measurement data (2011)
 - Q4/18 new 1/f noise measurement system installed (ProPlus)

Summary:

- Noise measurements performed on current qualification wafer
 - Operating points: $V_{BE}=0.7...0.925V$ (g2, g2l), $V_{CE}=1V$, $f=1Hz...10kHz$
- Model parameters extracted for
 - npn13g2l: VBIC

Example: npn13g2l, Nx=4, El=2.5μm

- Simulation with new VBIC parameters shows good agreement with measurement

