



HB NOISE CONTROLLER

NoiseCon

NC1

NLNoiseStart=10 Hz

NLNoiseStop=100 kHz

NLNoiseDec=1

InputFreq=noisefreq

CarrierFreq=IF

CarrierIndex[1]=1

NoiseInputPort=1

NoiseOutputPort=2

PhaseNoise=Phase noise spectrum

NoiseNode[1]=Vout

SortNoise=Off

IncludePortNoise=yes

BandwidthForNoise=1.0 Hz



HARMONIC BALANCE

HarmonicBalance

HB1

MaxOrder=4

Freq[1]=RF1

Freq[2]=RF2

Freq[3]=RF - IF

Order[1]=5

Order[2]=5

Order[3]=5

Noisecon[1]="NC1"

Var

Eqn

VAR

VAR2

Pin=-50_dBm

F_space=1 MHz

RF1=RF + F_space / 2

RF2=RF - F_space / 2

Var

Eqn

VAR

LNA_parameters

LNA_K=13 dB

LNA_NF=2.3 dB

LNA_TOI=38_dBm

LNA_P1dB=22_dBm

Var

Eqn

VAR

PA_parameters

PA_K=13 dB

PA_NF=2.3 dB

PA_TOI=38_dBm

PA_P1dB=22_dBm

Var

Eqn

VAR

freq_parameters

RF=3 GHz

IF=150 MHz

df=84 MHz

