

HARMONIC BALANCE

HarmonicBalance

HB1

MaxOrder=7

Freq[1]=RF

Freq[2]=RF-IF

Order[1]=3

Order[2]=3

SweepVar="Pin"

Start=-50

Stop=50

Step=1

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

Var
Eqn

VAR

VAR1

Pin=-50



GAIN COMPRESSION

XDB

HB2

Freq[1]=RF

Freq[2]=RF - IF

Order[1]=5

Order[2]=5

GC_XdB=1

GC_InputPort=1

GC_OutputPort=2

GC_InputFreq=RF

GC_OutputFreq=IF

GC_InputPowerTol=1e-3

GC_OutputPowerTol=1e-3

GC_MaxInputPower=100

