

## BUDGET

Budget  
Budget  
NonlinearAnalysis=yes  
NonlinearHarmonicOrder=3  
CmpMaxPin=40\_dBm  
NoiseFreqSpan=1 Hz  
NoiseFreqStep=0 Hz  
NoiseResolutionBW=1 Hz  
TableComponentFormat=Columns  
MeasurementFrequencyUnit=Hz  
MeasurementAngleUnit=degrees  
AutoFormatDisplay=no  
OutputCSVFile=no  
RunCommand=no  
Measurement[1]="NF\_Refln\_dB"  
Measurement[2]="OutP1dB\_dBm"  
Measurement[3]="OutTOI\_dBm"

Var Egn

VAR

VAR2

Pin=-50\_dBm  
F\_space=1 MHz  
RF1=RF + F\_space / 2  
RF2=RF - F\_space / 2

Var Egn

VAR

LNA\_parameters

LNA\_K=13 dB  
LNA\_NF=2.3 dB  
LNA\_TOI=38\_dBm  
LNA\_P1dB=22\_dBm

Var Egn

VAR

PA\_parameters

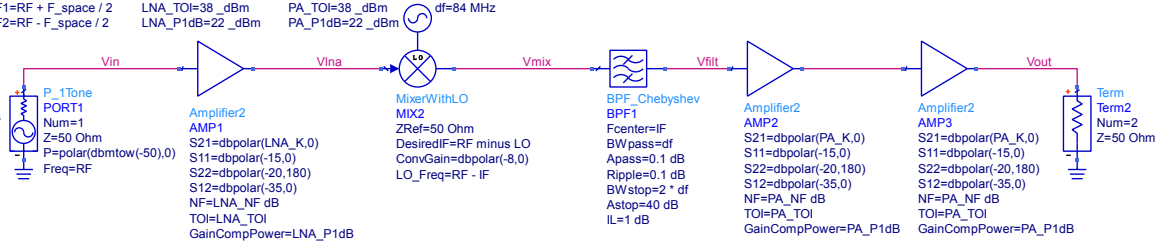
PA\_K=13 dB  
PA\_NF=2.3 dB  
PA\_TOI=38\_dBm  
PA\_P1dB=22\_dBm

Var Egn

VAR

freq\_parameters

RF=3 GHz  
IF=150 MHz  
df=84 MHz



## 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

## 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

