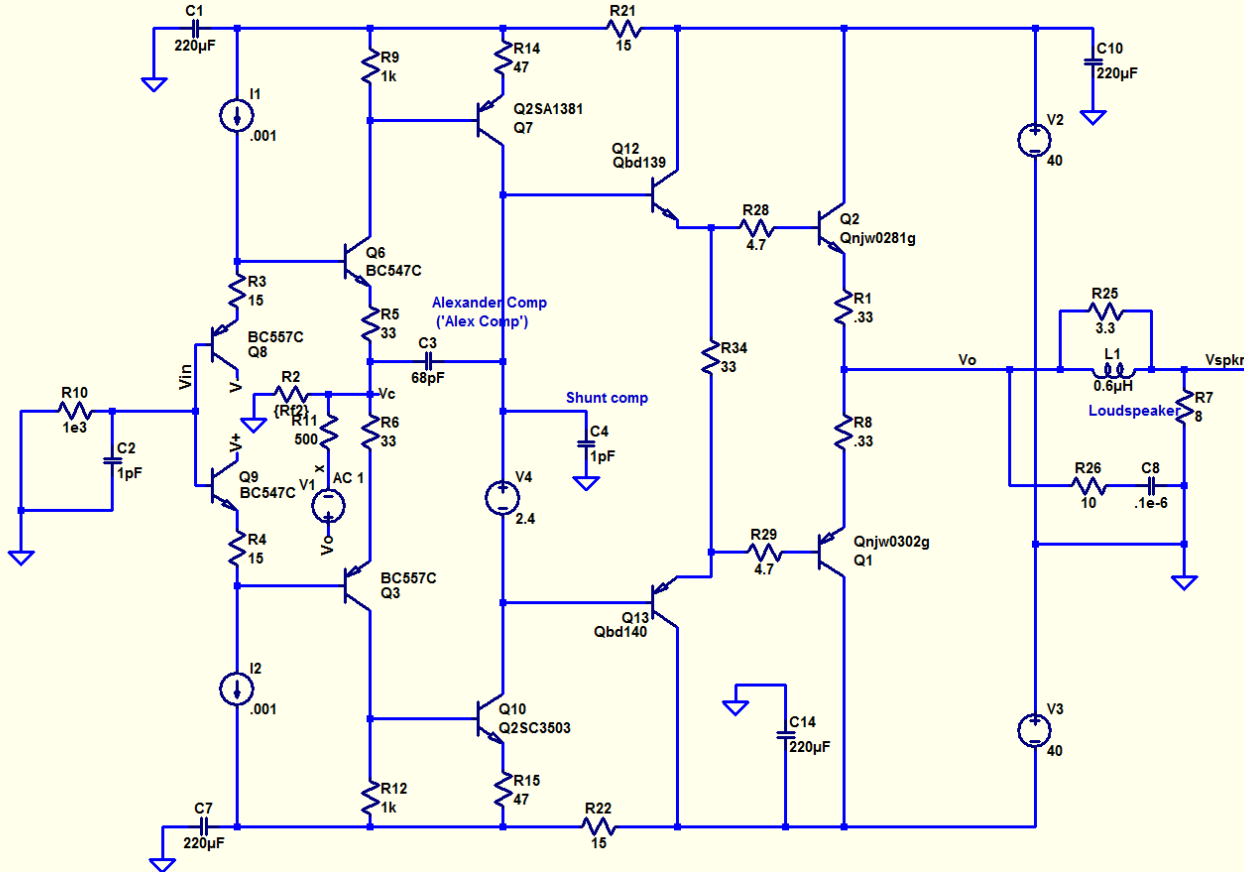


CLF Study 2

Basic CFA



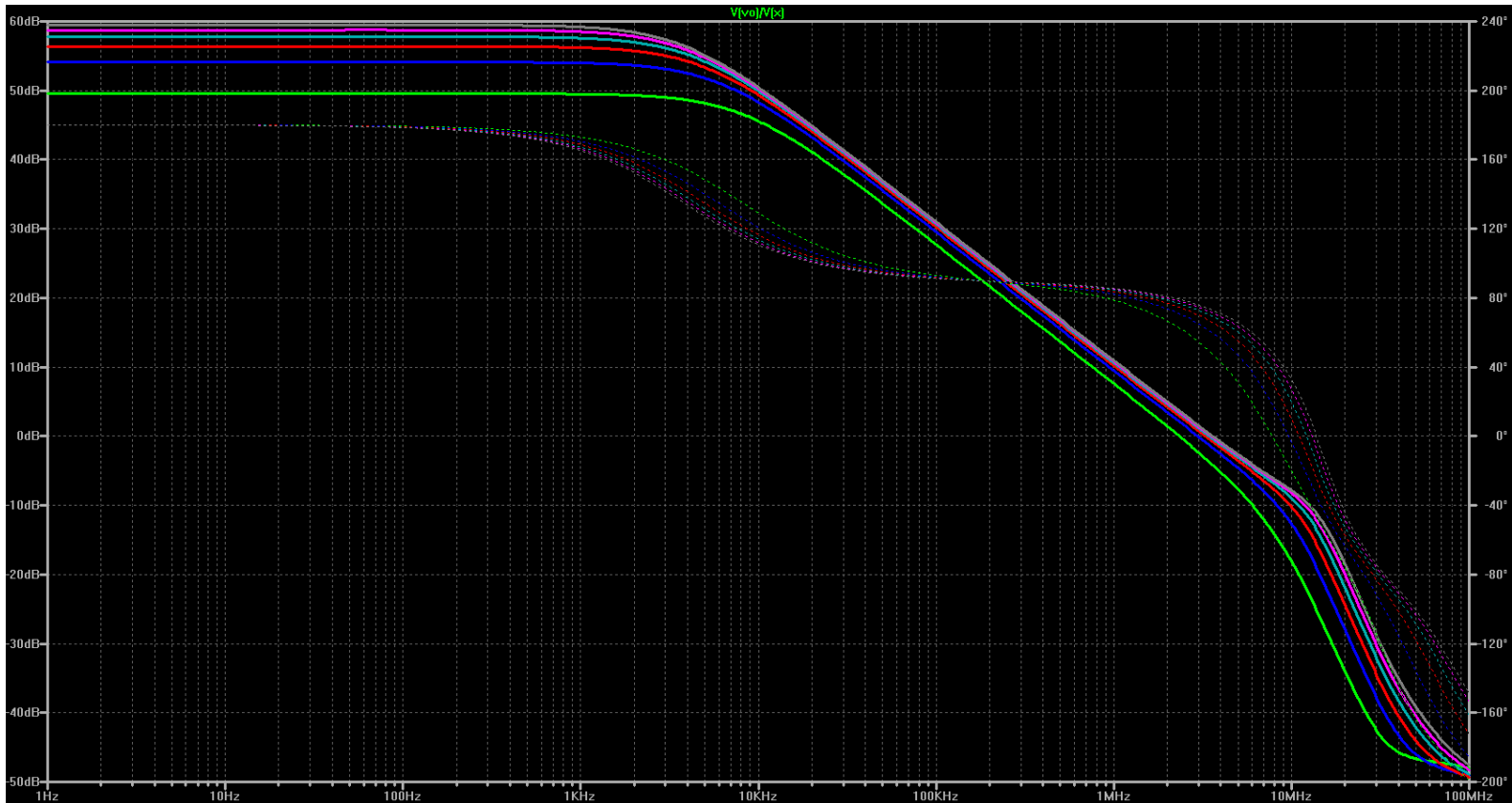
Loop Gain

```
.ac dec 100 1 100e6
.options plotwinsize = 0
fourier 20k V(Vo)
;tran 0 200e-6 0 1e-9
.options numdgt = 8
.step temp list 0 20 80
```

```
.step param Rset 200 1e6 999800
.options itl1=1000
.options itl6=1000
.options gshunt 1e16
```

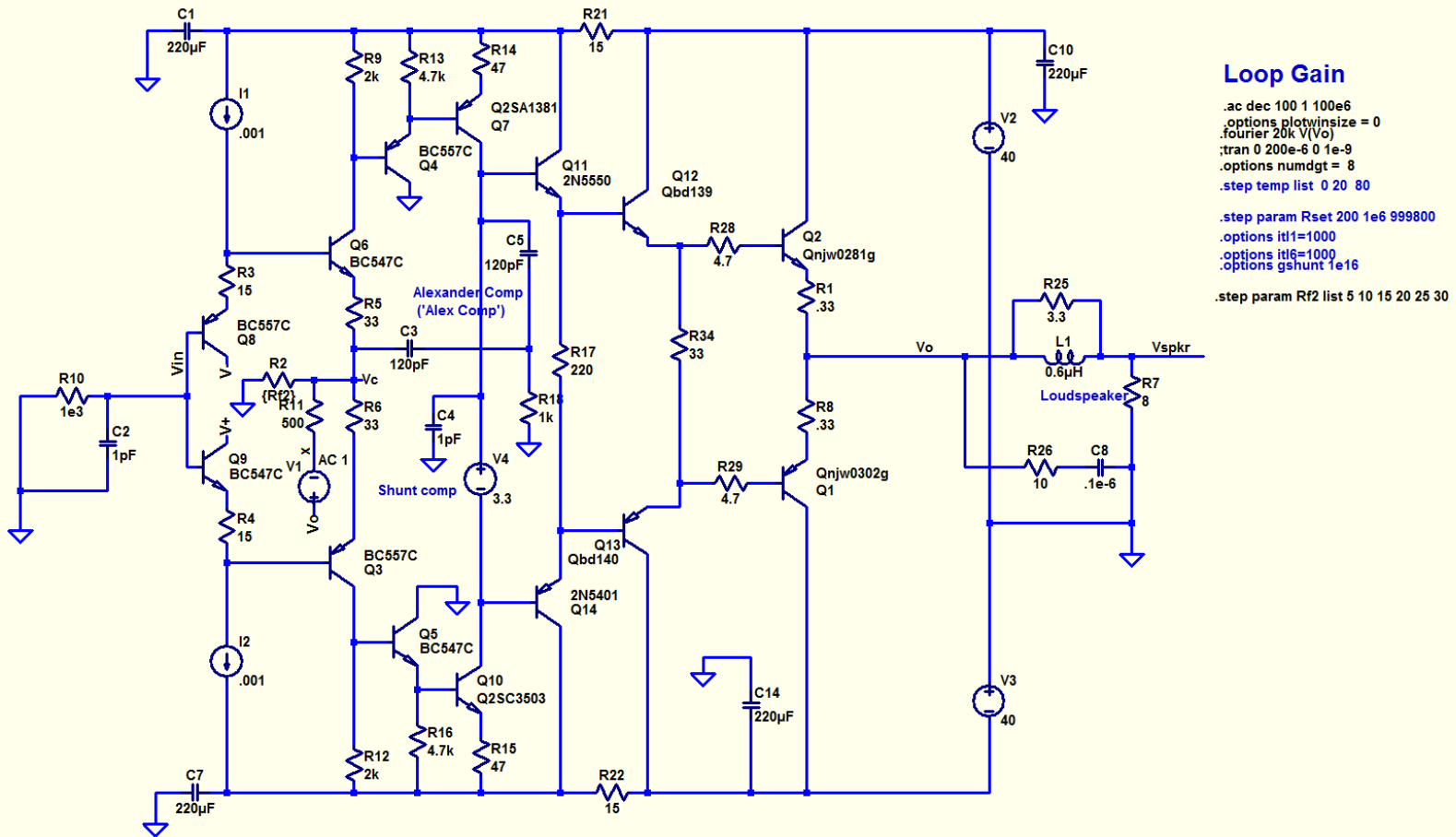
```
.step param Rf2 list 5 10 15 20 25 30
```

Basic CFA Loop Gain plot



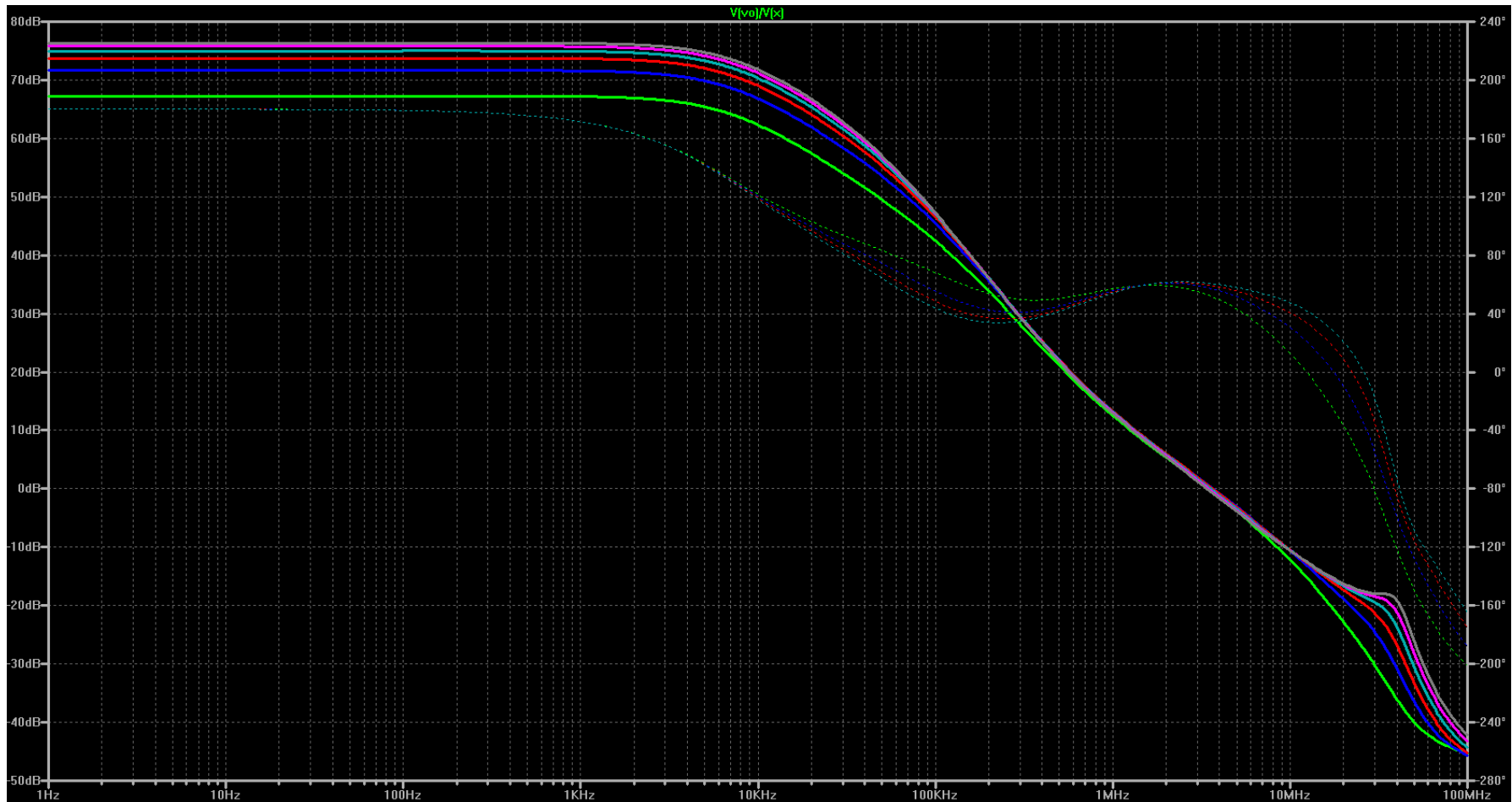
- CL gain stepped from 18x to 101x
- ULGF c. 3 MHz established by selecting C3; R11 could also be used for this purpose, but my view is in a practical discrete audio power amp, its easier to adjust C3

'Quick 'n Dirty' CFA with TPC



- Added beta enhancers and EF3 (together adding 25 dB loop gain)

'Quick 'n Dirty CFA TPC LG Plots



- Even with TPC, - 3dB LG point remains fairly constant