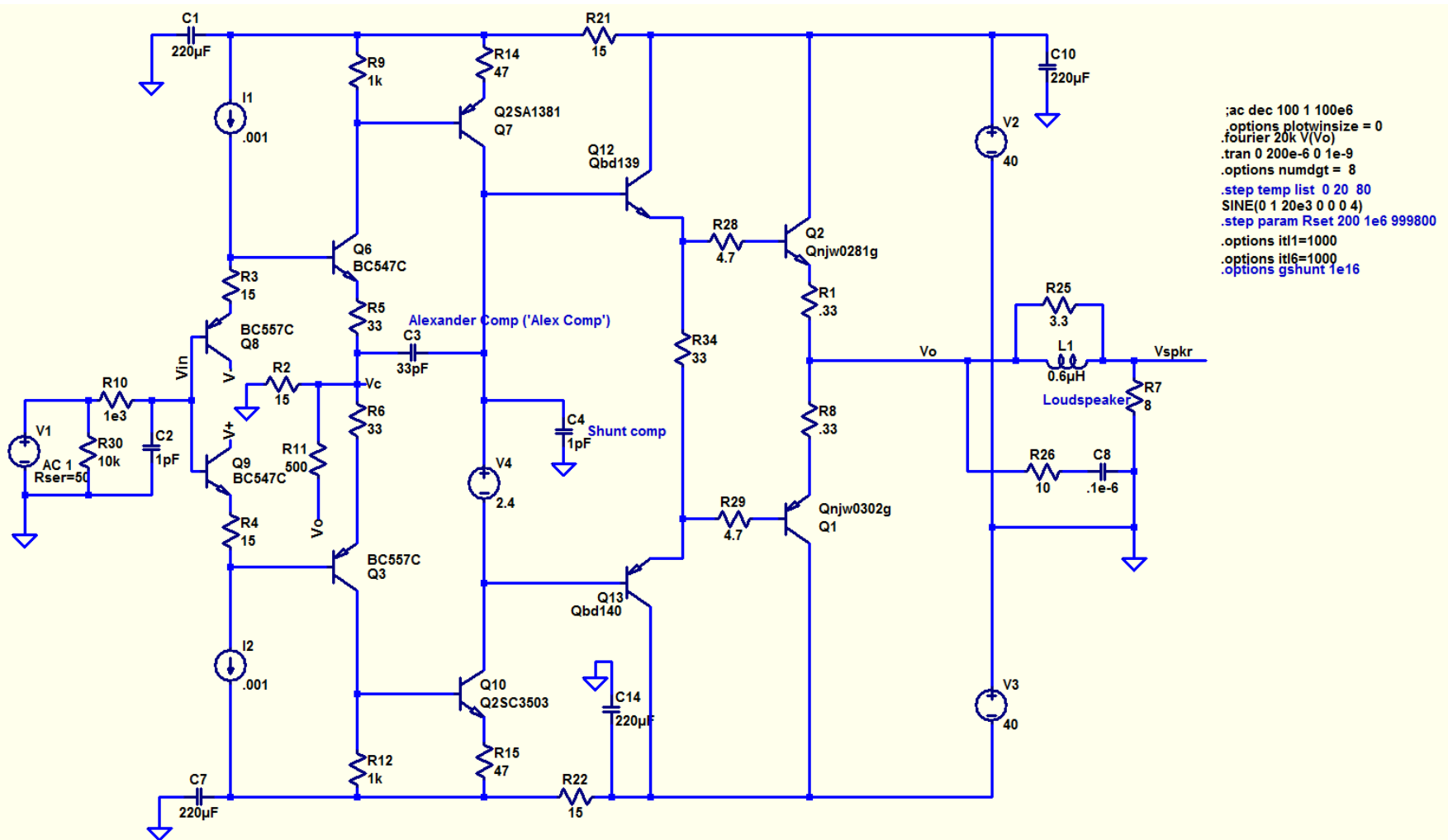


# CFA Study

We start with a generic CFA amplifier

Investigate basic operating parameters and evolve the design to higher performance covering:-

- Basic circuit operation of the front end
- Distortion
- Compensation
- Frequency response
- Loop bandwidth
- Slew rate
- Square wave performance



### Generic CFA

- EF2 output stage without TIS beta enhancer
- No input filter
- ULGF 3.1 MHz (on high side); PM >65 degrees, GM > 10dB
- Alex Comp (see C3)
- Distortion 0.04% at 20kHz and 68 Watts out into 8 Ohms



- Frequency response (green trace) is -3dB at 10 MHz NOTE: WITHOUT INPUT FILTER!



- Generic CFA loop gain (no input filter and Alex comp)