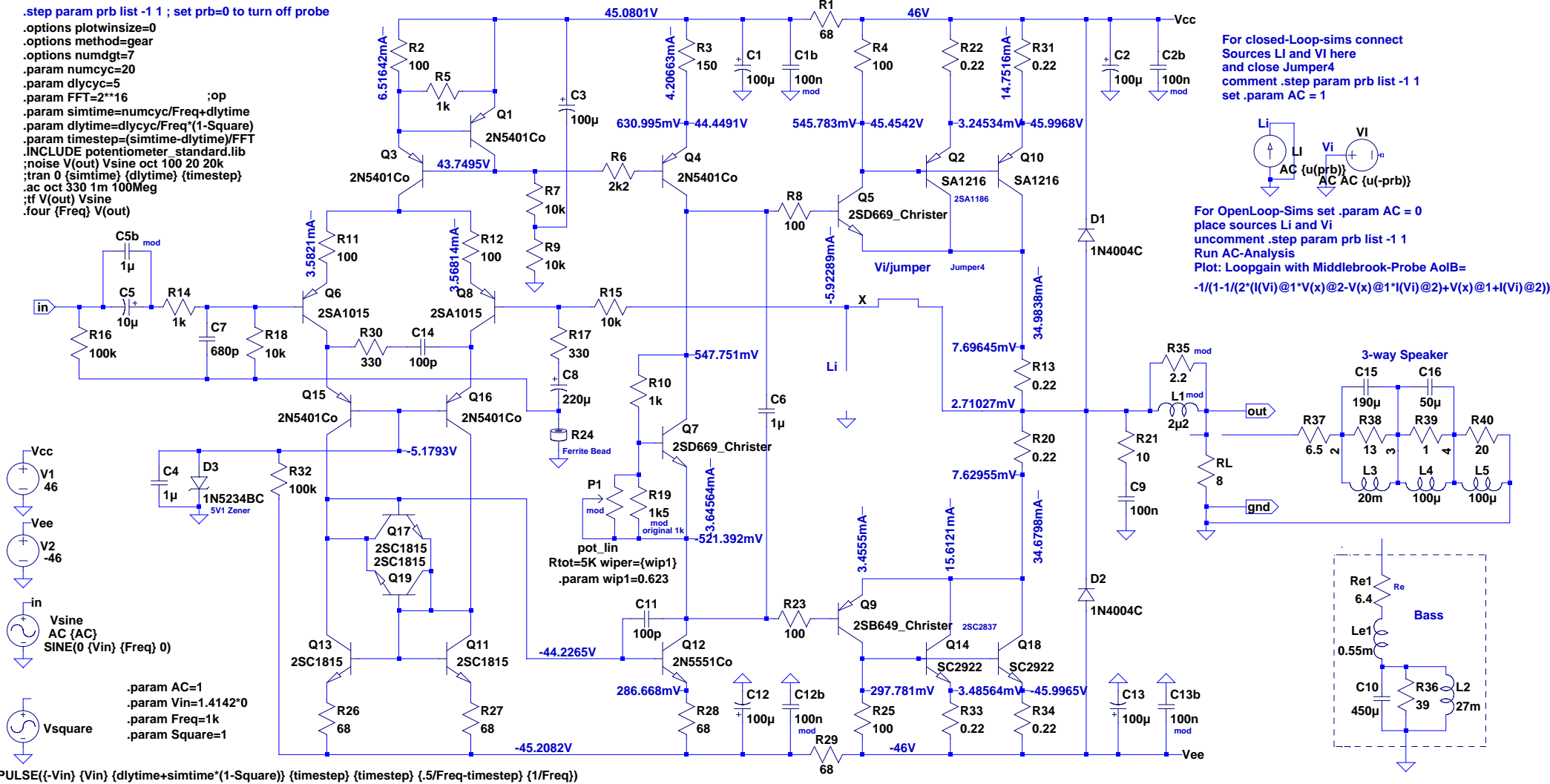


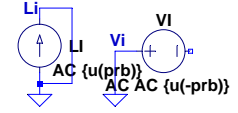
L12-2 CFP Output Power Amplifier

<http://www.diyaudio.com/forums/solid-state/196089-l12-2-cfp-output-amp-120w-2-8r.html>

```
.step param prb list -1 1 ; set prb=0 to turn off probe
.options plotwinsize=0
.options method=gear
.options numdgt=7
.param numcyc=20
.param dlycyc=5
.param FFT=2**16 ;op
.param simtime=numcyc/Freq+dlytime
.param dlytime=dlycyc/Freq*(1-Square)
.param timestep=(simtime-dlytime)/FFT
.INCLUDE potentiometer_standard.lib
;noise V(out) Vsine oct 100 20 20k
;tran 0 {simtime} {dlytime} {timestep}
.ac oct 330 1m 100Meg
.tf V(out) Vsine
.four {Freq} V(out)
```



For closed-Loop-sims connect Sources LI and VI here and close Jumper4 comment .step param prb list -1 1 set .param AC = 1



For OpenLoop-Sims set .param AC = 0 place sources LI and VI uncomment .step param prb list -1 1 Run AC-Analysis Plot: Loopgain with Middlebrook-Probe AoIB= $-1/(1-1/(2*(I(Vi)@1*V(x)@2-V(x)@1*I(Vi)@2)+V(x)@1+(Vi)@2))$

```
V1 46
V2 -46
in
Vsine AC {AC} SINE(0 {Vin} {Freq} 0)
Vsquare
.param AC=1
.param Vin=1.4142*0
.param Freq=1k
.param Square=1
PULSE(-Vin) {Vin} {dlytime+simtime*(1-Square)} {timestep} {timestep} {.5/Freq-timestep} {1/Freq}
```