

```

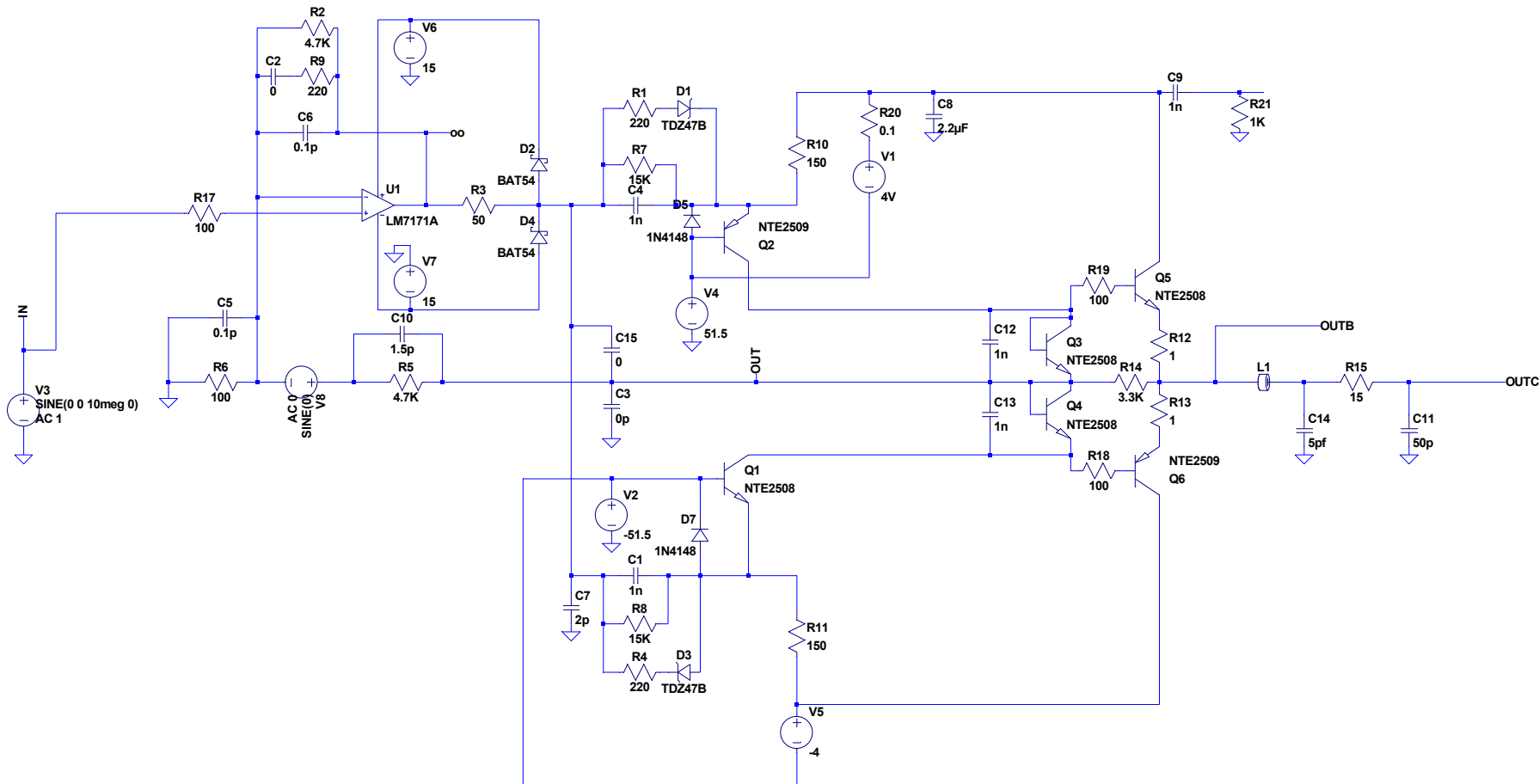
.tran 0 1m 990u uic
;.fourier 20Meg V(OUT)
.ac oct 10 1 1000Meg

```

```

.measure tmp max mag(V(out))
.measure BW trig mag(V(out))=tmp/sqrt(2) rise=1 targ mag(V(out))=tmp/sqrt(2) fall=last

```



```

.model NTE2508 NPN(IS=5.80f BF=120 NF=0.98 VAF=23.0 IKF=4 ISE=70.0f NE=1.70 BR=1.40 NR=1.00 VAR=38.0 IKR=20 ISC=10f NC=1.50 RB=360m IRB=1 RBM=80m RE=60m RC=180.0m XTB=0 XTI=3 EG=1.11 NK=0.68 CJC=6.7p FC=0.5 MJC=0.33 VJC=0.75 MJE=0.33 VJE=0.75 CJE=15p TF=400p ITF=1 XTF=10 VTF=20 MFG=SANYO)
.model NTE2509 PNP(IS=5.80f BF=120 NF=0.98 VAF=23.0 IKF=4 ISE=70.0f NE=1.70 BR=1.40 NR=1.00 VAR=38.0 IKR=20 ISC=10f NC=1.50 RB=360m IRB=1 RBM=80m RE=60m RC=180.0m XTB=0 XTI=3 EG=1.11 NK=0.68 CJC=6.7p FC=0.5 MJC=0.33 VJC=0.75 MJE=0.33 VJE=0.75 CJE=15p TF=400p ITF=1 XTF=10 VTF=20 MFG=SANYO)
.model NTE2508A NPN(BF=120)
.model NTE2509A PNP(BF=120)
.model TDZ47B D(Is=4.5055E-15 N=1.0301 Rs=94.841E-3 Ikf=14.702 Cjo=115.20E-12 M=.33266 Vj=.8018 Isr=30.417E-12 Bv=51 Ibv=10.000E-3 tt=520.81E-9 Nbv=0.3 Tbv1=0.00102 Vpk=30 mfg=Rohm type=Zener)

```