Portable Mixer, V2.4

9VDC battery (9.5V fresh to 7.5V low)
with 100mV 60Hz noise

.global Vcc Vee Vgnd

.ac oct 10 10 60K
.meas gmax max(mag(V(cold)))
.meas AC fc1 FROM 0 TARG mag(V(cold))=gmax/sqrt(2) RISE=1
.meas AC fc2 FROM 0 TARG mag(V(cold))=gmax/sqrt(2) FALL=1

.tran 150m

.step param remotevol 0 1.0 0.1
.step param musicvol 0 1.0 0.1
.step param mic1vol 0 1.0 0.05

.param remotevol 1.0
.param musicvol=1.0
.param mic1vol=1.0

V4
SINE(6 0.1 60)

R3
100k

C1
22μ

C2
1n

R4
68K

U1

Vcc

Vgnd

Vee

V1
TP2
SINE(0 0 2000)
AC 1

X1
micin+
micin-
micout
tone=0.5 vol={mic1vol}

V2
SINE(0 0.0 1300)

X2
micin+
micin-
micout
tone=0.5 vol=1.0

V3
TP1
SINE(0 0 250)

V6
SINE(0 0 300)

X3
AUX1_L
AUX1_R
AUX2_L
AUX2_R
musicout
bass=0.5 treble=0.5

X4
MIC1
MIC2
MUSIC
COLD
HOT
MUSICOUT
VOICEOUT

COLD
HOT
MUSICOUT
VOICEOUT

R1
100K
R2
100K
R5
100K
R6
100K