



Minimum gain = -7.22 db (x0.435). Swap R1 and R6 for unity gain. (w increased noise)

*R5L/R are optional for connecting to low impedance device such as headphone out. DNP for line out.

**Experiment with different values. R6||R1 should be 15k - 22k ohms. (18.8k with the values above) Omit R6L/R if using 10k audio taper pot for VR1

BOM

- IC1: LM4880 or LM4881 (SOIC8)
- R2(x2), R3(x2), R6(x2): Res, metal film, 27k ohm (0603)
- R1(x2), R4(x2): Res, metal film, 62k ohm (0603)
- R5(x2)*: Res, metal film, 1k ohm (0603)
- R7: Res, 1k ohm (0603)
- R8: Res, 1M ohm (0603)
- R9: Res, 330k ohm (0603)
- C1(x2): Cap, Film or Cerm(C0G), 0.1uF (1206)
- C2(x2): Cap, Film or Cerm(C0G), 68nF (1206)
- C3: Cap, Cerm, 1uF 6.3V (0603)
- Cs1,2,3,4: Cap, Cerm, 100uF 6.3V (1210)
- VR1: Pot, Dual, 100k ohm B taper or 10k ohm A
- SW1: DPDT Slide Switch
- SW2: DP3T Slide Switch
- CN1, CN2: 3.5mm Stereo Jack
- * optional components

Revision Notes

- Power switch and shutdown circuit revised to reduce the click at turn on.
- "Better volume control" using linear taper potentiometer.
- Two more tank capacitors added.
- Optional dummy load for possible better performance connecting to headphone out. (R5R/L)

Title Mini Headphone Amp /w Bass Boost			
Date 12/14/2014	Rev. 4	Sheet 1 of 1	
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