

Do not power on the board without opamp.

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This will give you a coil of 10x20mm (see picture on github repository).

For resistor < 150K : sort then or use 1% range.
0.25W, 0.5W resistor : Vishay MR525 or CCF07
R27 : 560R 1W 1% Ohmrite WNB560FET or Vishay CMF60560R00JKR6
R26, R28 : 22R 1% 1W TE Connectivity H4P22R2FA
C1 : 470pF CDE CD15FD471J03F or polystyrene capacitor.
C2 : Non polar capacitor Nichicon Muse UES1A101MPM
C3 : 1uF Wima MKP2D041001N00J5SD or MKS4B04100C00JF00
C10 : 47pF Mica CDE CD15ED470J03 or ceramic NP0
C17 : 100nF capacitor FKP3C031004C00J5SD or MKT1822410255
C20 : 1nF Wima FKP2C411001D00H5SD or Vishay MKT BFC237085102
D1, D4 : LED 2V TLHR4605 (3mm) or TLHR5400 (5mm)
J2 and J3: FASTON 250 PCB connector (TE Connectivity 63849-1)
J22E3) or Nichicon UFW (UFW1J222MHD) or Wurth WCAP-AT68 (860010781028)

For input sensibility at 1.5v: $R17 = 7.32k$
 For input sensibility at 0.750v: $R17 = 3.3k$
 Remember to take off the resistors of 1W and more from the PCB when you solder them (thermal).

Q17 a QUAD405 audiophile approach

by eng. Tiberiu Vicol

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File: Q17-Mini.kicad_sch

Title: Q17-Mini Amplifier

Size: A4	Date: 2022-09-09
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