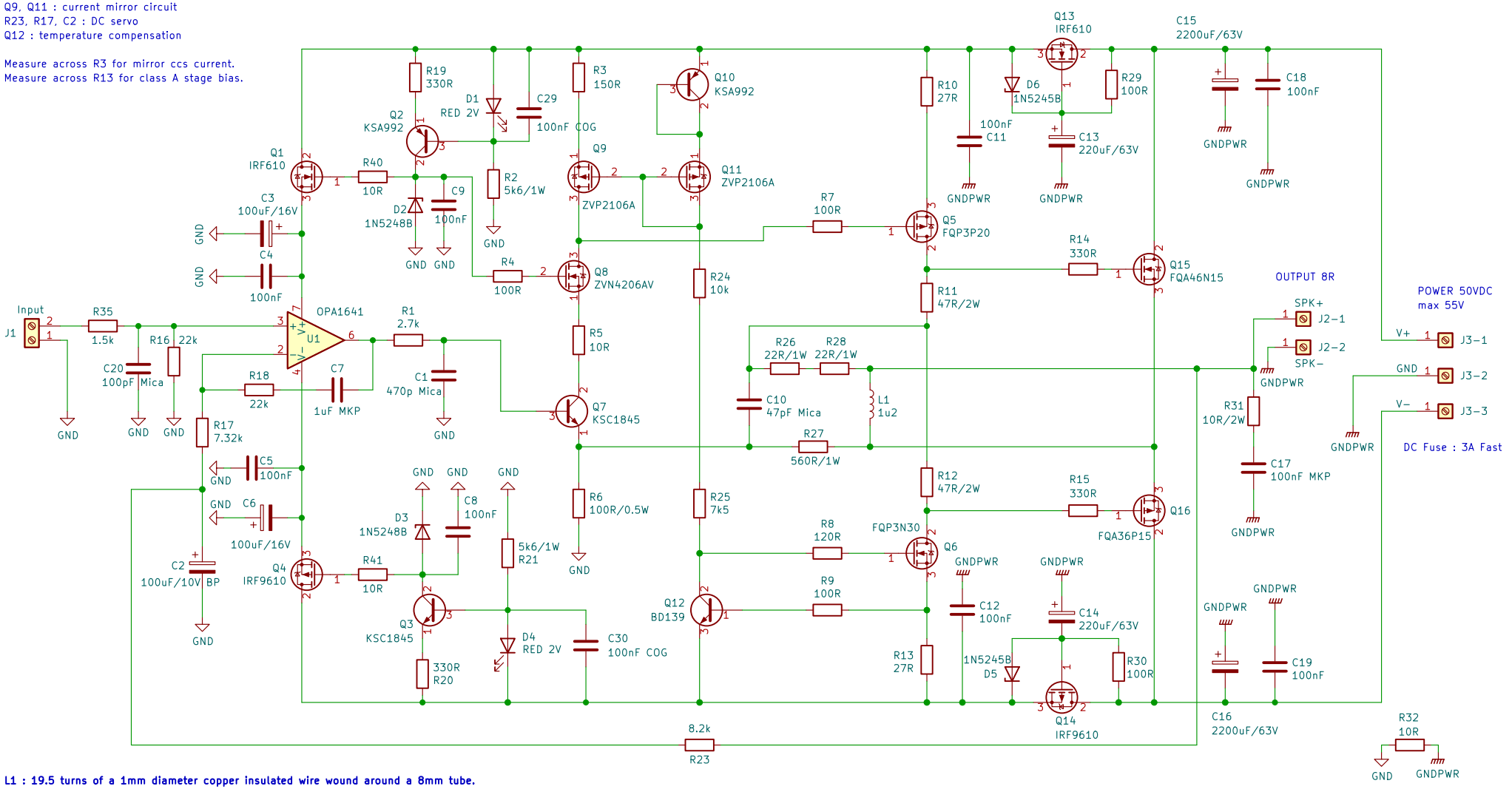

L1 : 19.5 turns of a 1mm diameter copper insulated wire wound around a 8mm tube.

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

For input sensibility at 1.5v: R17 = 7.32k
For input sensibility at 0.750v: R17 = 3.3k

Exicon ECW laterals:
R11,R12 = 10R 2W, R14 = 510R and R15 = 390R

U1 : OPA1641 or OPA1611
Q1, Q13 : IRF610
Q2, Q10 : KSA992
Q4, Q14 : IRF9610
Q3, Q7 : KSC1845 or 2SC2240
Q5 : FQP3P20
Q6 : FQP3N30
Q8 : ZVN4206AV
Q9, Q11 : ZVP2106A or BS250P (Diodes Inc)
Q12 : BD139
Q15 : FQA46N15
Q16 : FQA36P15

100nF capacitor : Wima MKS2
C3, C5 : ELna Silmic II 100uF 16v
1W resistor : Vishay PR01
2W resistor : Vishay CCF02 or PR02
C13, C14 : Panasonic FC
D1, D4 : LED RED 2V
D2, D3 : 1N5248B
D5, D6 : 1N5245

For resistor < 150R sort then or use 1% range.
0.25W, 0.5W resistor : Vishay MRS25 or CCF07
R27 : 560R 1W 1% Ohmite WNB560FET
R26, R28 : 22R 1W TE Connectivity H4P22RFZA
C15, C16 : Vishay 048 RML (MAL204858222E3) or Nichicon UFW (UFW1J222MHD).
C7 : use MKP MKP2D041001N00JSSD if possible or MKS2D041001K00JSSD.
C17 : use MKP capacitor (MKP1F031004B00KI00 or FKP3C031004C00JSSD).
C2 : use bipolar capacitor (Nichicon Muse UES1A101MPM).
C1, C10 : use Mica CDE CD15 or Polystyrene capacitor.
J2 and J3: FASTON 250 PCB connector (TE Connectivity 63849-1)

Q17 a QUAD405 audiophile approach

Modified by Stef for the Q17-Mini project
by eng. Tiberiu Vicol

Sheet: /
File: Q17-Mini.kicad_sch

Title: Q17-Mini Amplifier

Size: A4	Date: 2022-01-25	**Rev: 1.3b2**
KiCad E.D.A. eeschema (6.0.0-0)		Id: 1/1