

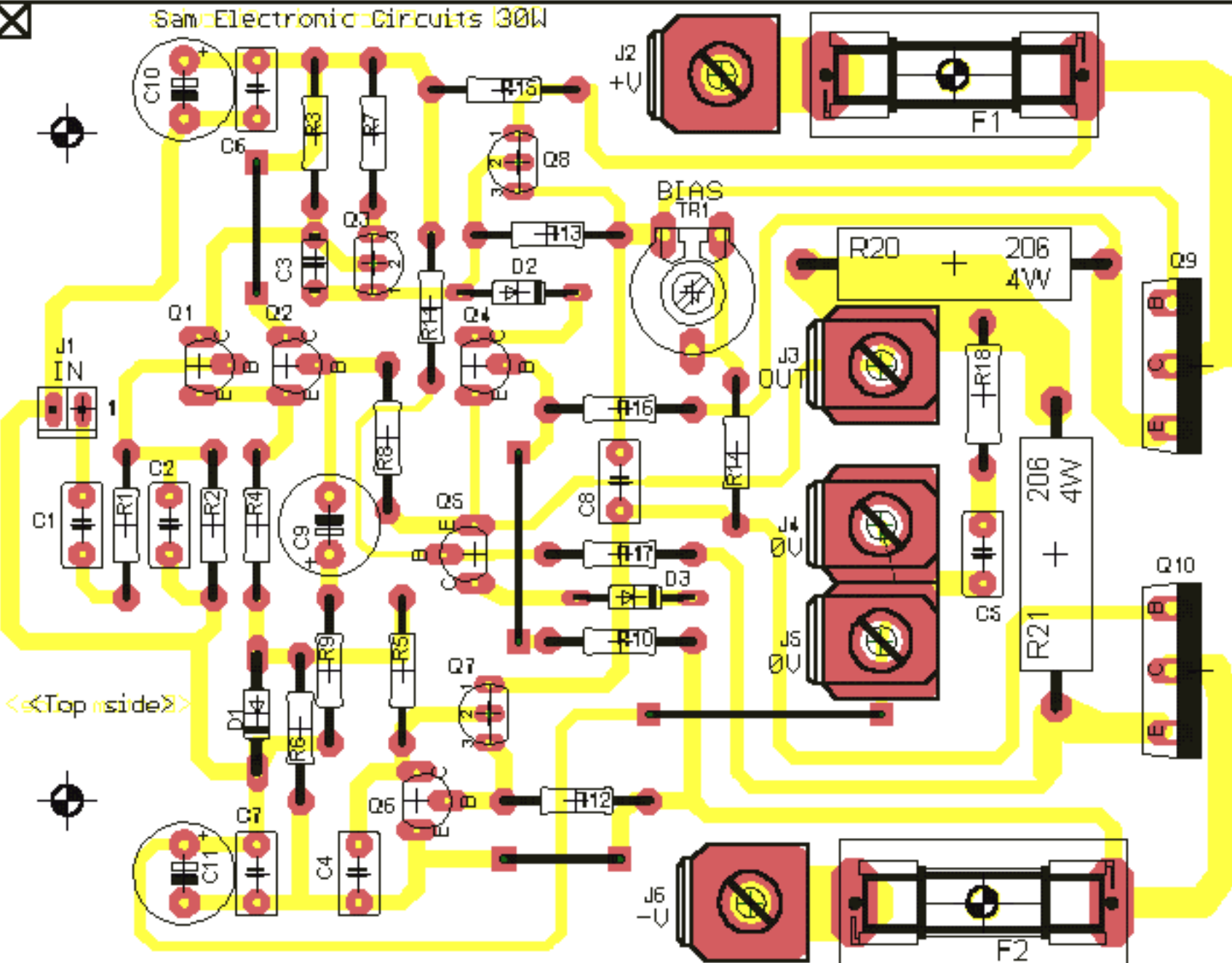
Fig.1--POWER AMPLIFIER 30W

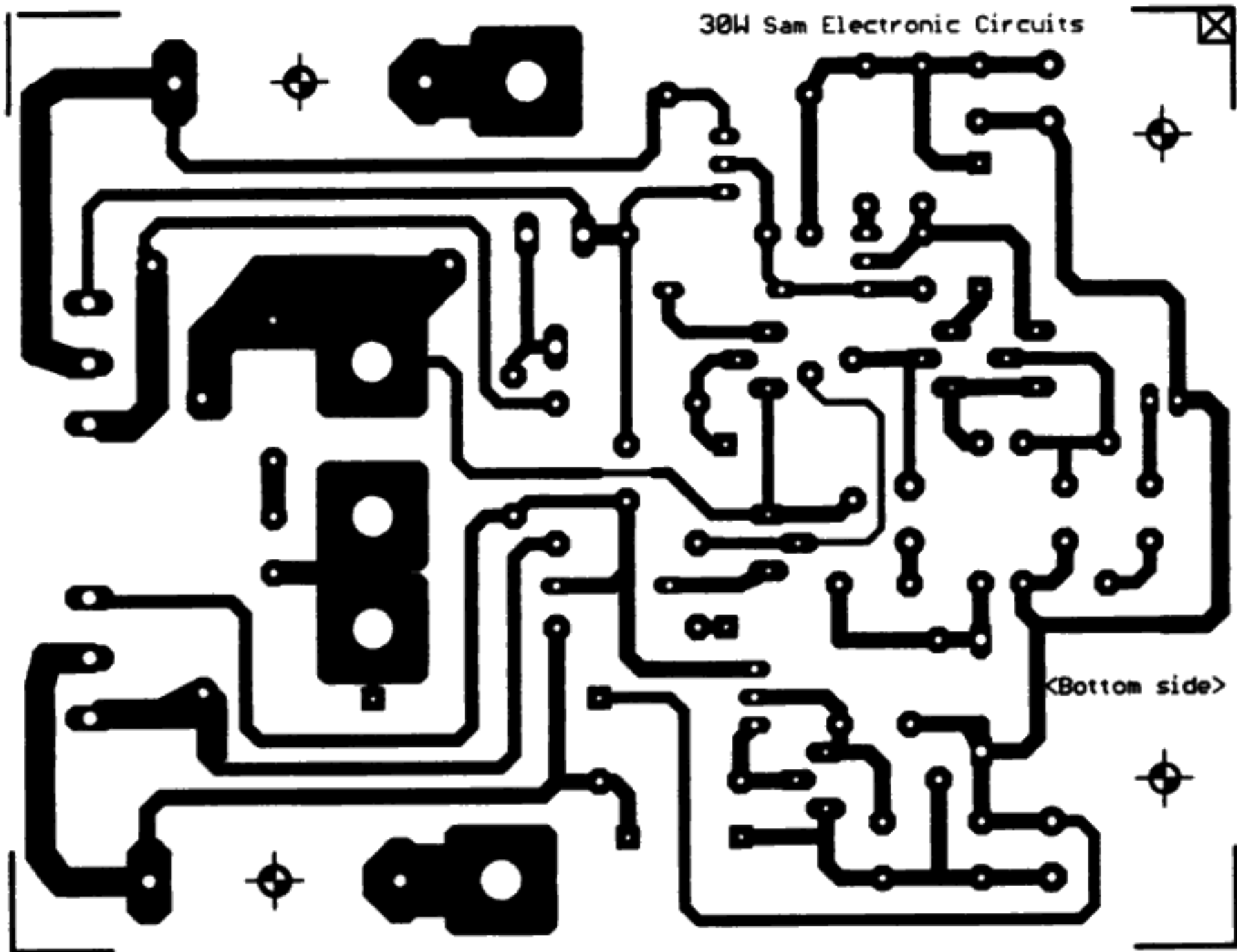
Sam 8/02

110mm

Sam Electronic Circuits 30W

85mm





Alkatrészlista

R1=1Kohm
R2=47Kohm
R3=1.5Kohm
R4-5=10Kohm
R6=5.6Kohm
R7=10ohm
R8=47Kohm
R9=560ohm
R10-11=8.2Kohm
R12-15=120ohm
R13=680ohm
R14=330ohm
R16-17=270ohm
R18=22ohm 1W
R19=NC
R20-21=0.39ohm 4W
All the resistors is 1/4W 1% except quote differently

C1=470nF 100V MKT
C2=1nF 100V MKT
C3=68pF ceramic
C4-8=22nF 100V MKT
C5-6-7=100nF 100V MKT
C9=47uF 25V
C10-11=220uF 63V

D1=9.1V 0.4W zener
D2-3=1N4148

Q1-2=[BC550C](#)
Q3=[MPSA56](#)
Q4=[BC547B](#)
Q5=[BC212](#)
Q6=[BC183](#)
Q7-8=[MPSAO6](#)
Q9=[TIP141](#)
Q10=[TIP146](#)

F1-2=1.6AT FUSE

TR1=250ohm trimmer

Many times we needed a small power amplifier, but good quality, made from distinguishable components. The design does not have any innovation. In the power stage exist a pair of transistors Darlington in package TOP3, which can screwing on a heatsink, putting between them and in the heatsink, suitable leaves mica and silicone ointment on better temperature kidnapping. The bias current regulation becomes with the TR1, as follows. We place in terminally one from resistors R20 or their R21 multimeter binding post, in scale 200mV and we regulate late the TR1 until we take clue 12mV. This voltage dip (fall) corresponds in current 30mA. We thinly leave the amplifier in this regulation for 15 min. without signal in the input and check again. If it need we correct the regulation in 30mA.

(http://users.otenet.gr/~athsam/power_amplifier_30w.htm)