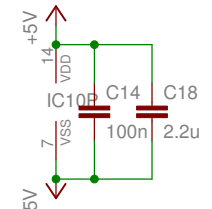
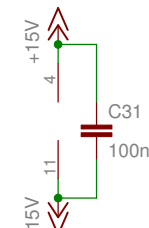
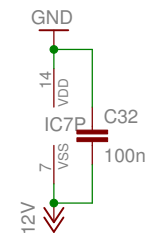
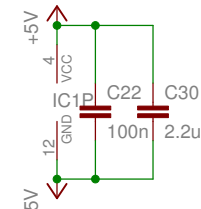
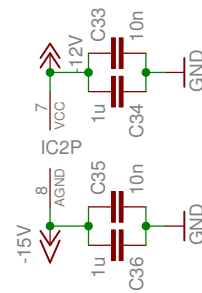
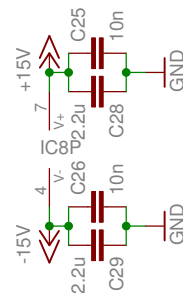
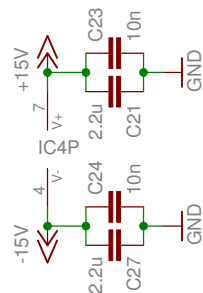


+5V

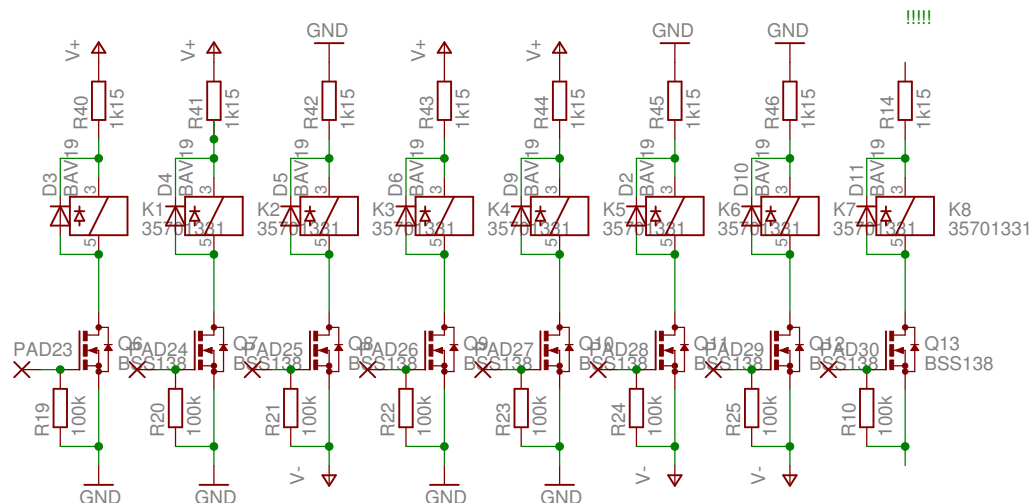
7805, 7905

>
-5V



$U_{max} = 18V \cdot \sqrt{2} \cdot 1.1 \cdot 1.2 - 1.4V = 32.1V$
 $U_{min} = 18V \cdot \sqrt{2} \cdot 0.9 - 1.4V - 2V = 19.5V$
 1,1 ... Netzüberspannung
 0,9 ... Netzunterspannung
 1,2 ... Trafo-Faktor-Leerlaufspannung
 1,4V ... Gleichrichter
 2V ... Voltage-Drop Eingangskondensator (500mA + 2200uF)

$R_{min} = 19.5V/9mA = 2166$
 $R_{max} = 32.1/15mA = 2140$
 $R_{Relais} = 1k \rightarrow R_v = 1k15$



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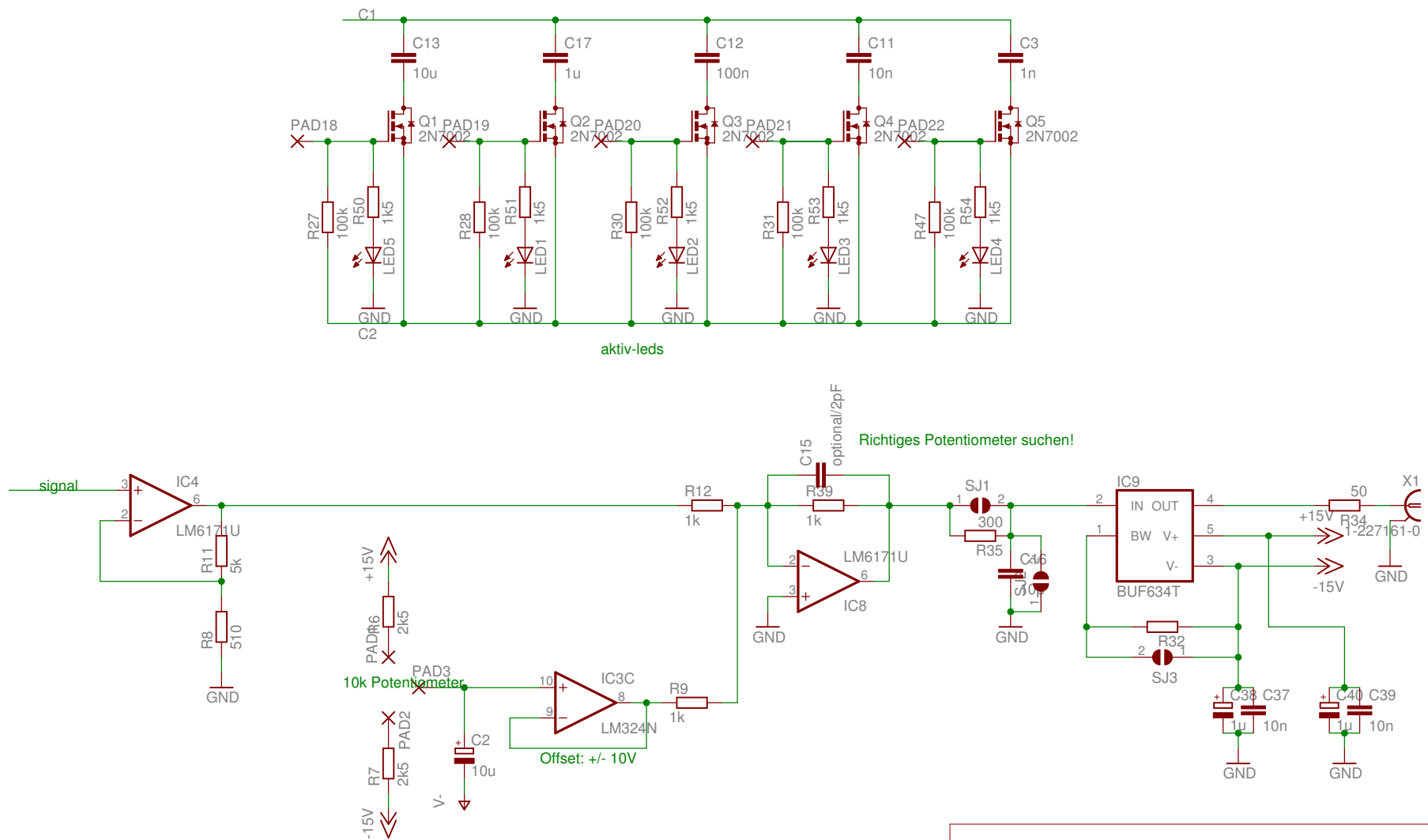
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