

# Discrete DC Coupled Audio Buffer for Preamps & D/A Converteres

## Highlights

Easy to Build  
Dual Mono Design  
DC Coupled Input & Output  
3 Stage Transistor Design  
None Global Feedbacks  
Ultra Subsonic DC Servo

## Technical Specifications

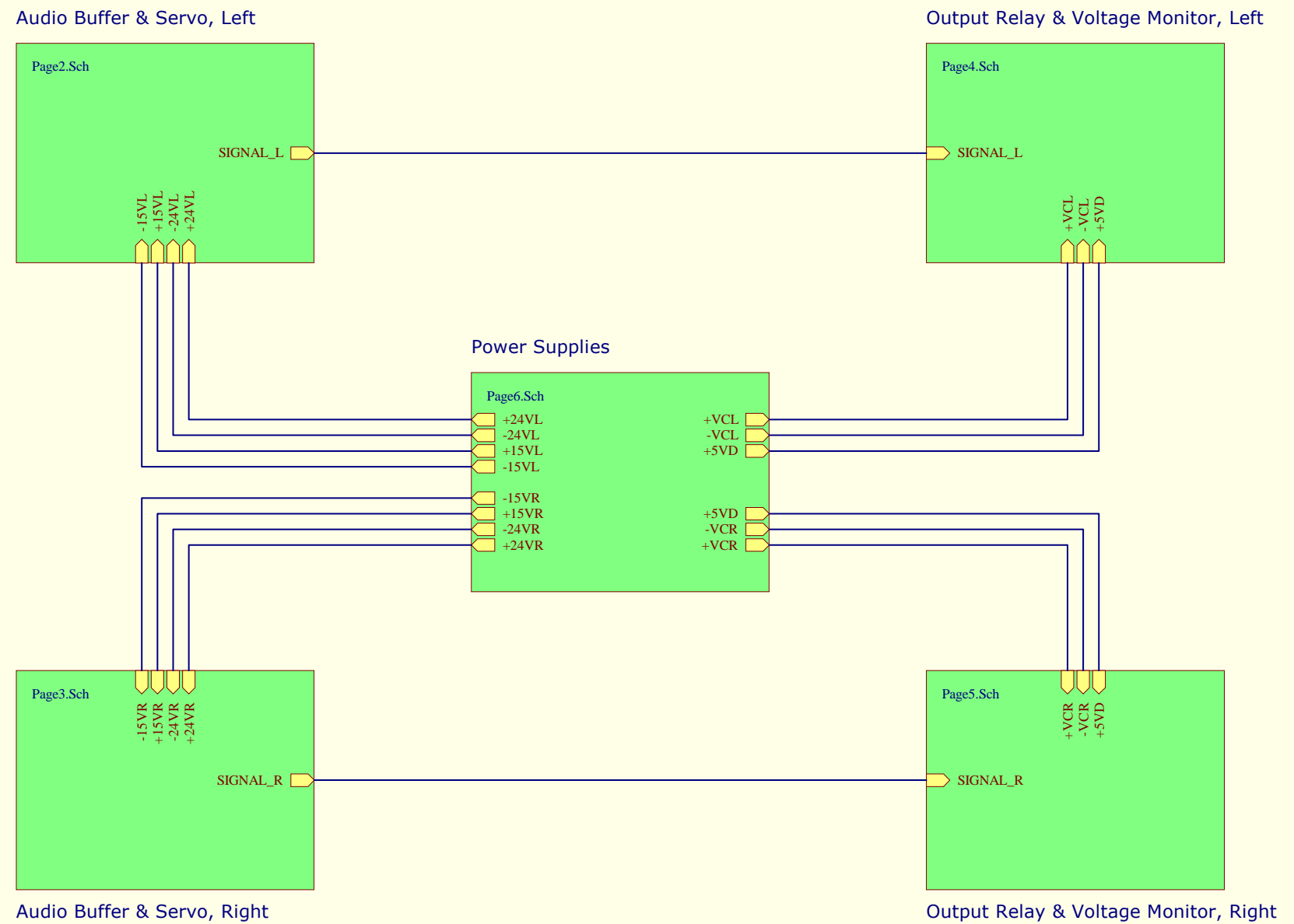
Frequency Response: 0.05Hz-5.0MHz @-3dB  
Dynamic range @ 1KHz: >132dBV  
THD+N @ 0dBV: 0.020%  
Channel Crosstalk: >132dBV  
Signal to Noise Ratio: 112dBV  
Input impedance: 100kohm  
Output Impedance: 50ohm  
Maximum Output: 7Vrms

## Options

Selectable Gain: 0dB, +3dB, +6dB  
Compatible with 10k-100kohm Potentiometers  
Compatible with Audio Step Ladder Attenuators  
Optional 100KHz Bandwidth Limit for DACs  
Compatible with Voltage Out D/A Converters  
Examples: AK4396, CS4398, WM8741 or equivalent

## Revision History

Page7.Sch



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# Audio Buffer & Servo, Left

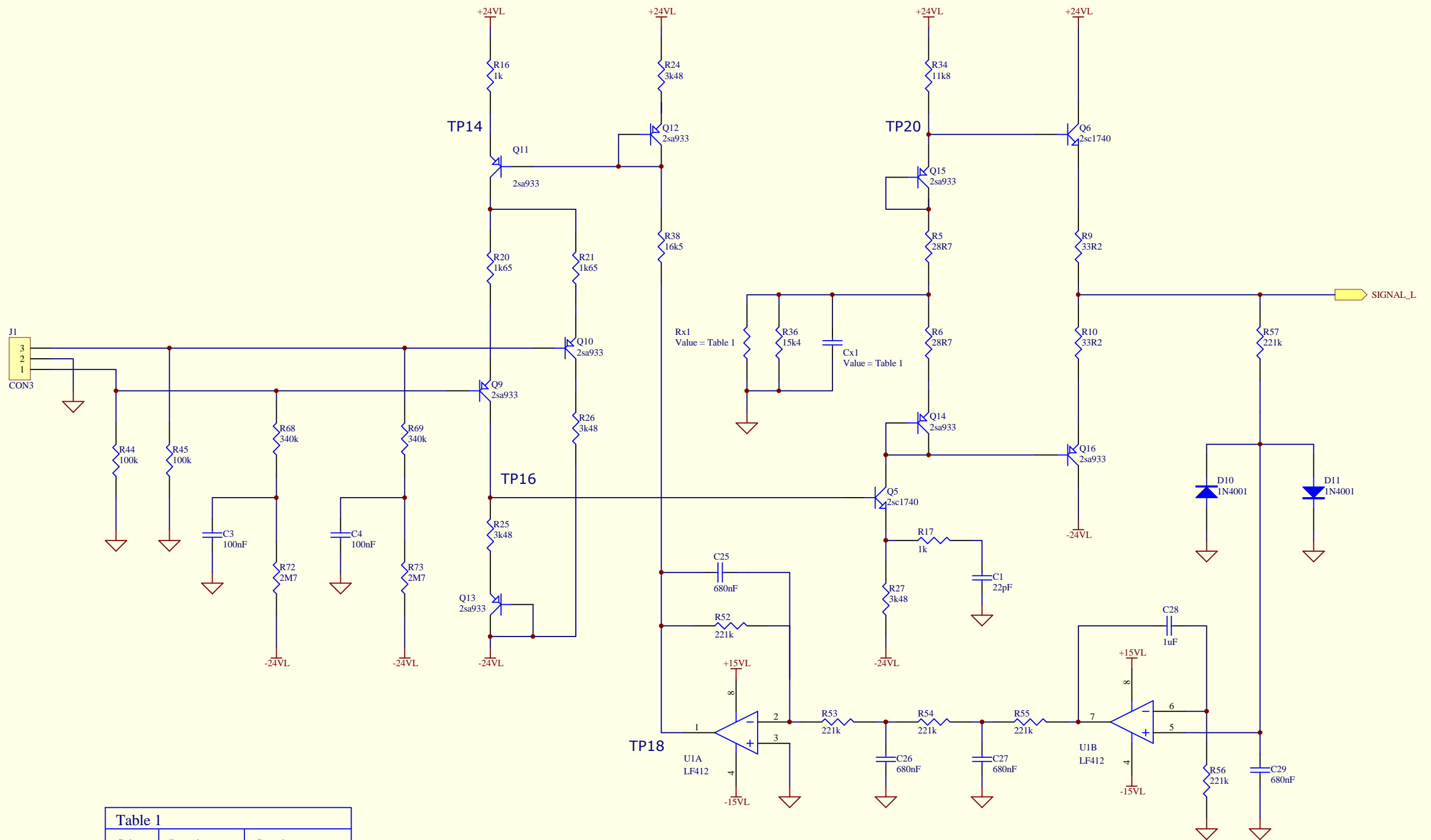


Table 1		
Gain	Rx value Adjustabel Gain	Cx value 100kHz Bandwidth
+6 dB	Not mounted	220pF
+3 dB	15.4k	330pF
0 dB	6.8k	470pF

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# Audio Buffer & Servo, Right

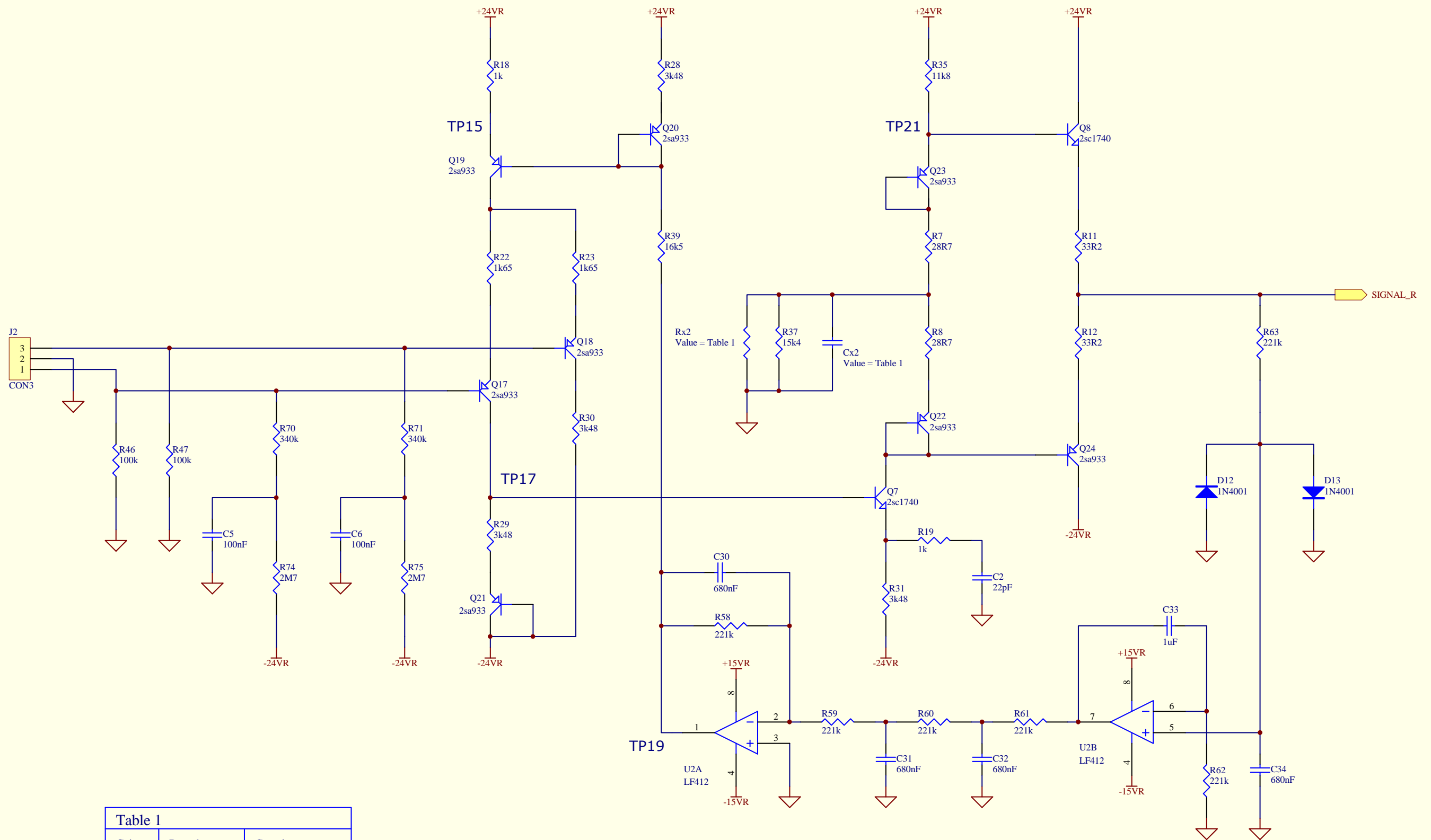
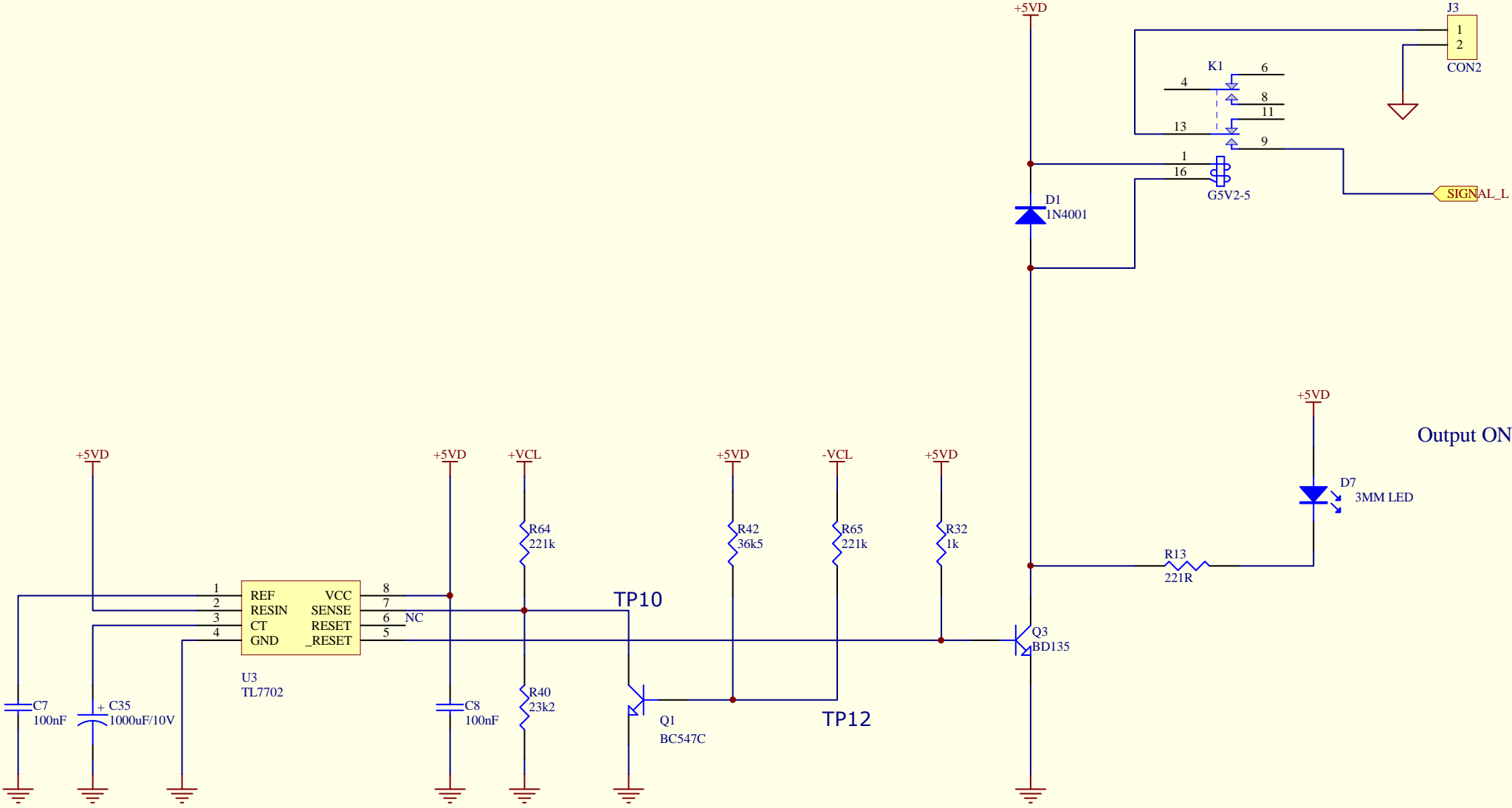
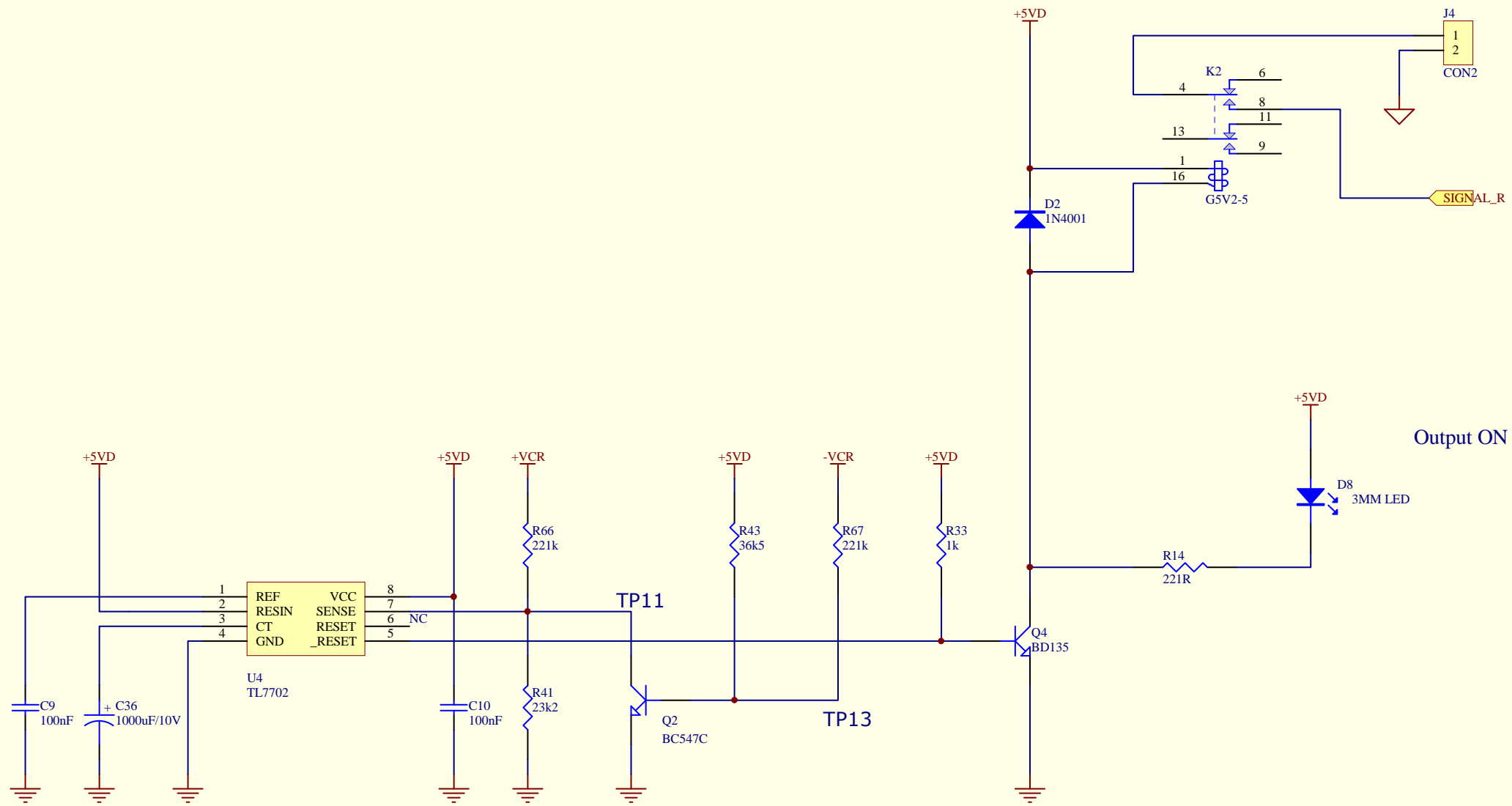


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# Output Relay & Voltage Monitor, Left

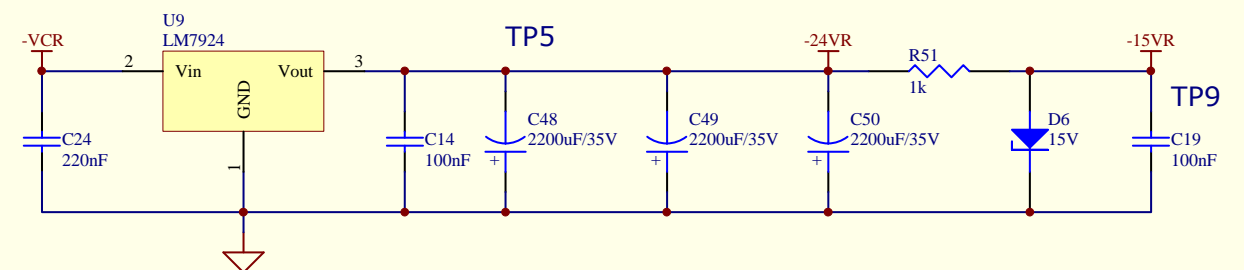
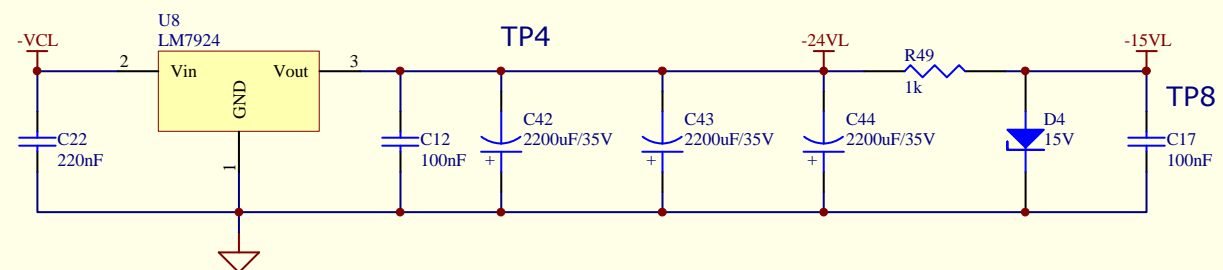
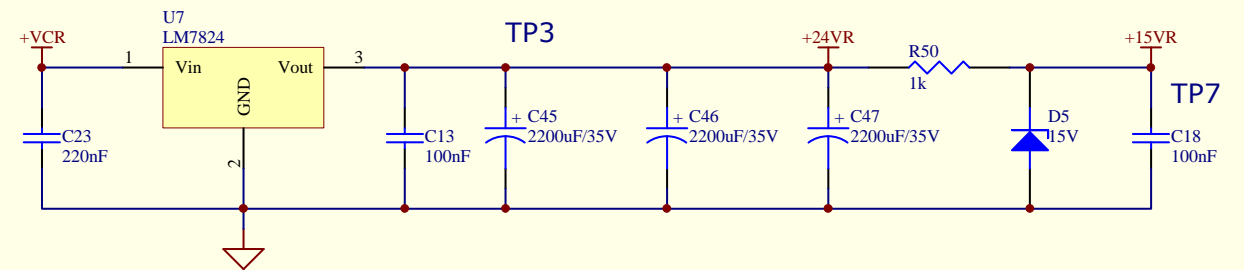
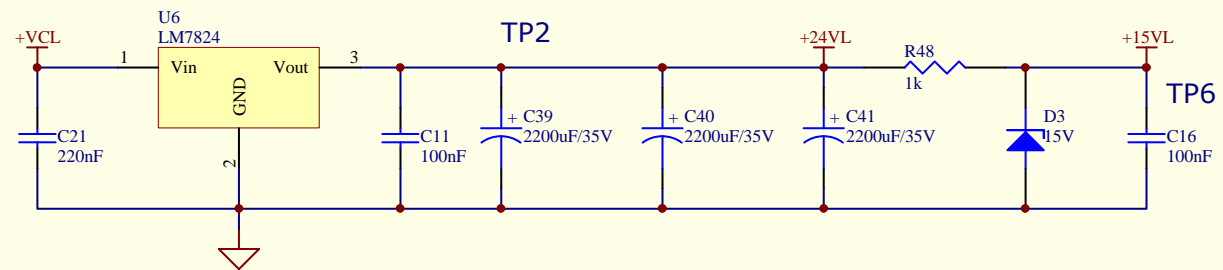


# Output Relay & Voltage Monitor, Right

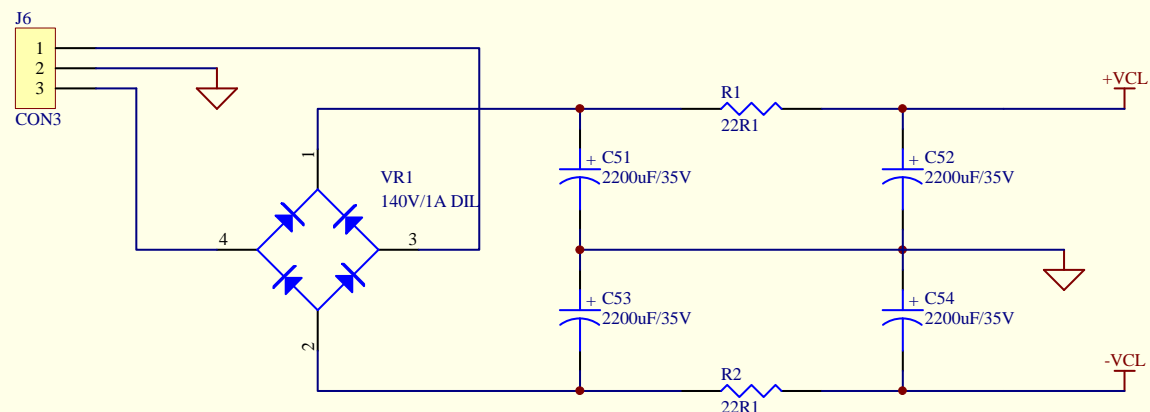


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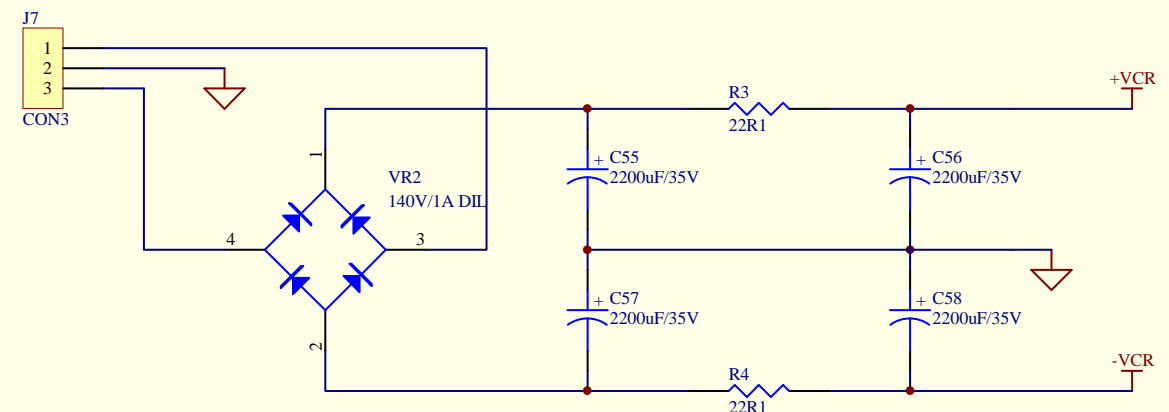
# Power Supplies



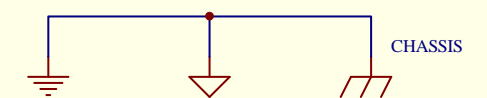
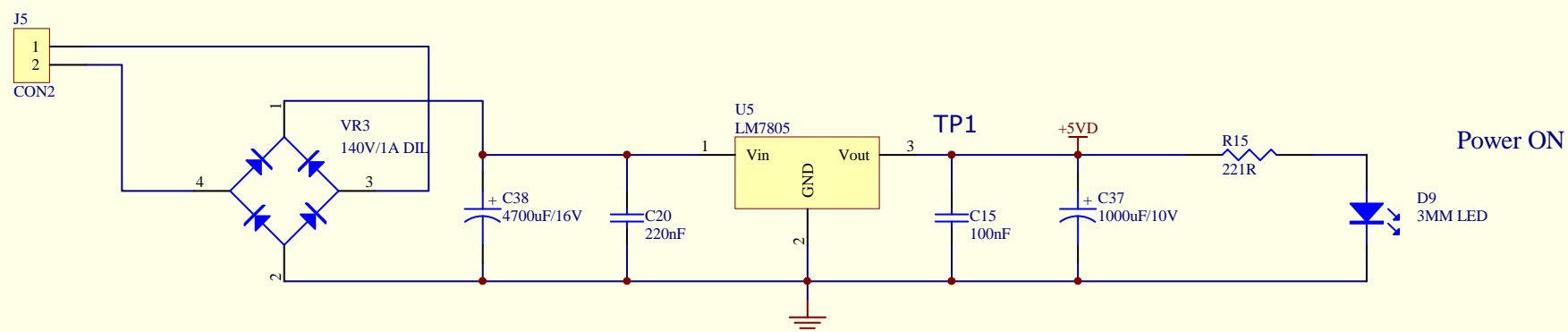
2x22VAC or 30VDC



2x22VAC or 30VDC



1x 7VAC or 9VDC



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## Revision History

A - Initial Release on <http://www.diyhifi.dk/>

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Discrete DC Coupled Audio Buffer

Rev. 3A

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