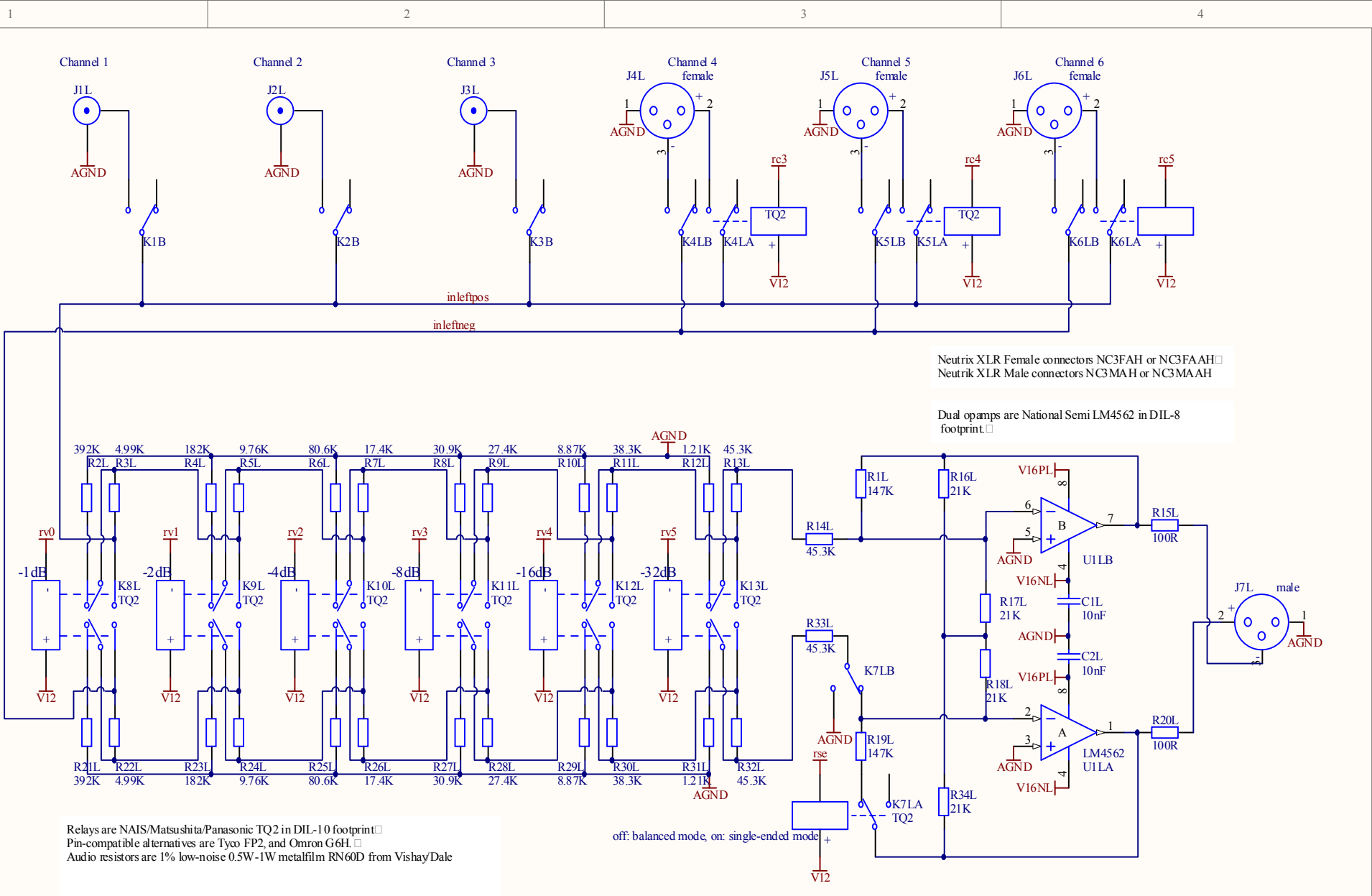


The 220-ohm resistors are combined by 4 in an 8-pin SIL footprint
 e.g. Bourns 4608X-102-221
 or BI Technologies L83C221

KingBright SA39-11
 or Liteon LTS4801
 or Avago HDSP 315 series CA

Audio Relay & Power board

Title		
Balanced preamp - Digital control		
Size	Number	Revision
A4	Copyright Jos van Eijndhoven	1.0
Date:	4-4-2009	Sheet of
File:	E:\DOCUMENTS\JOS\SheetDisplay.Sch	Drawn By: Jos van Eijndhoven



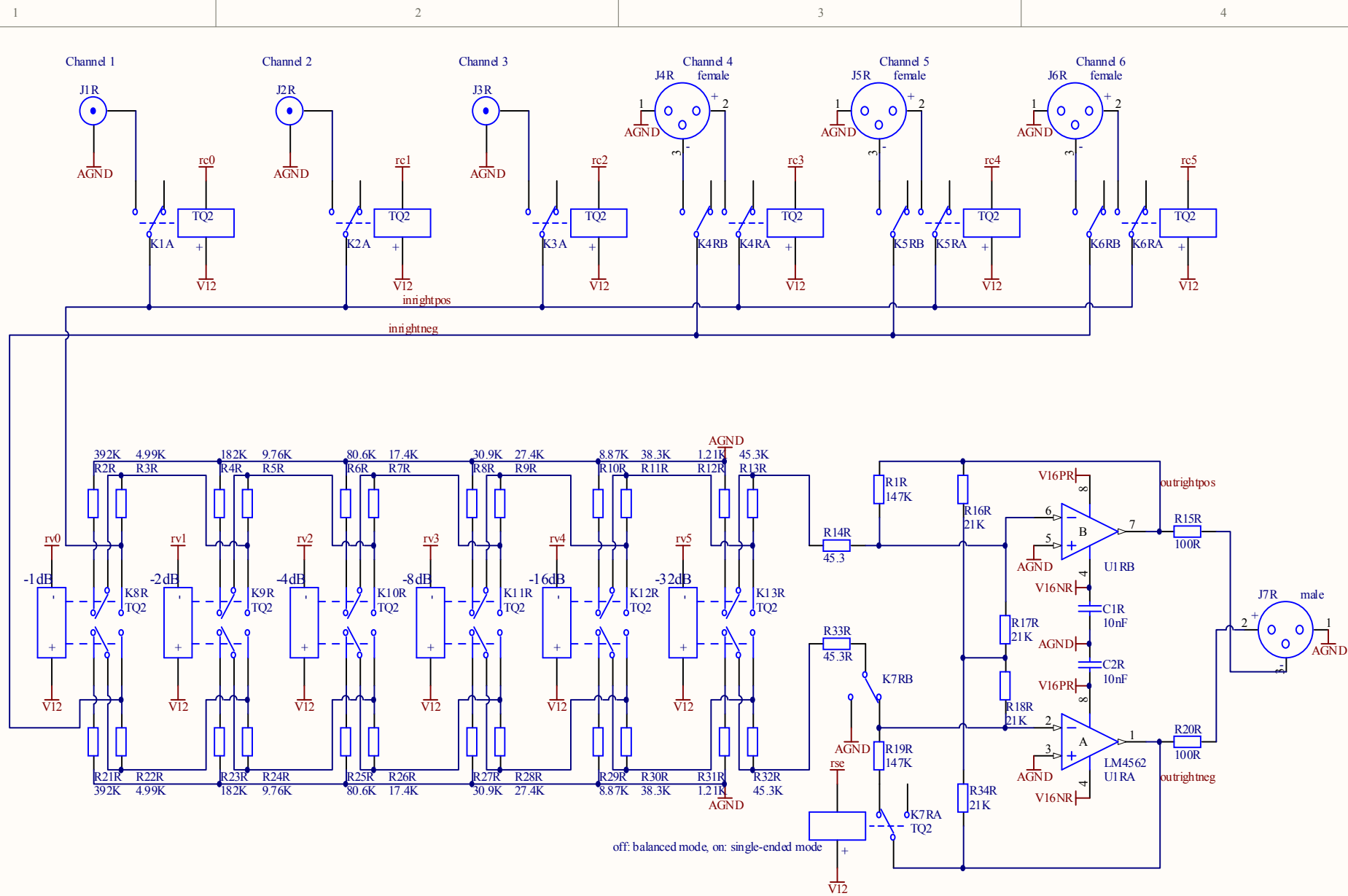
Neutrix XLR Female connectors NC3FAH or NC3FAAH
 Neutrik XLR Male connectors NC3MAH or NC3MAAH

Dual opamps are National Semi LM4562 in DIL-8 footprint

Relays are NAIS/Matsushita/Panasonic TQ2 in DIL-10 footprint
 Pin-compatible alternatives are Tyco FP2, and Omron G6H
 Audio resistors are 1% low-noise 0.5W-1W metalfilm RN60D from Vishay/Dale

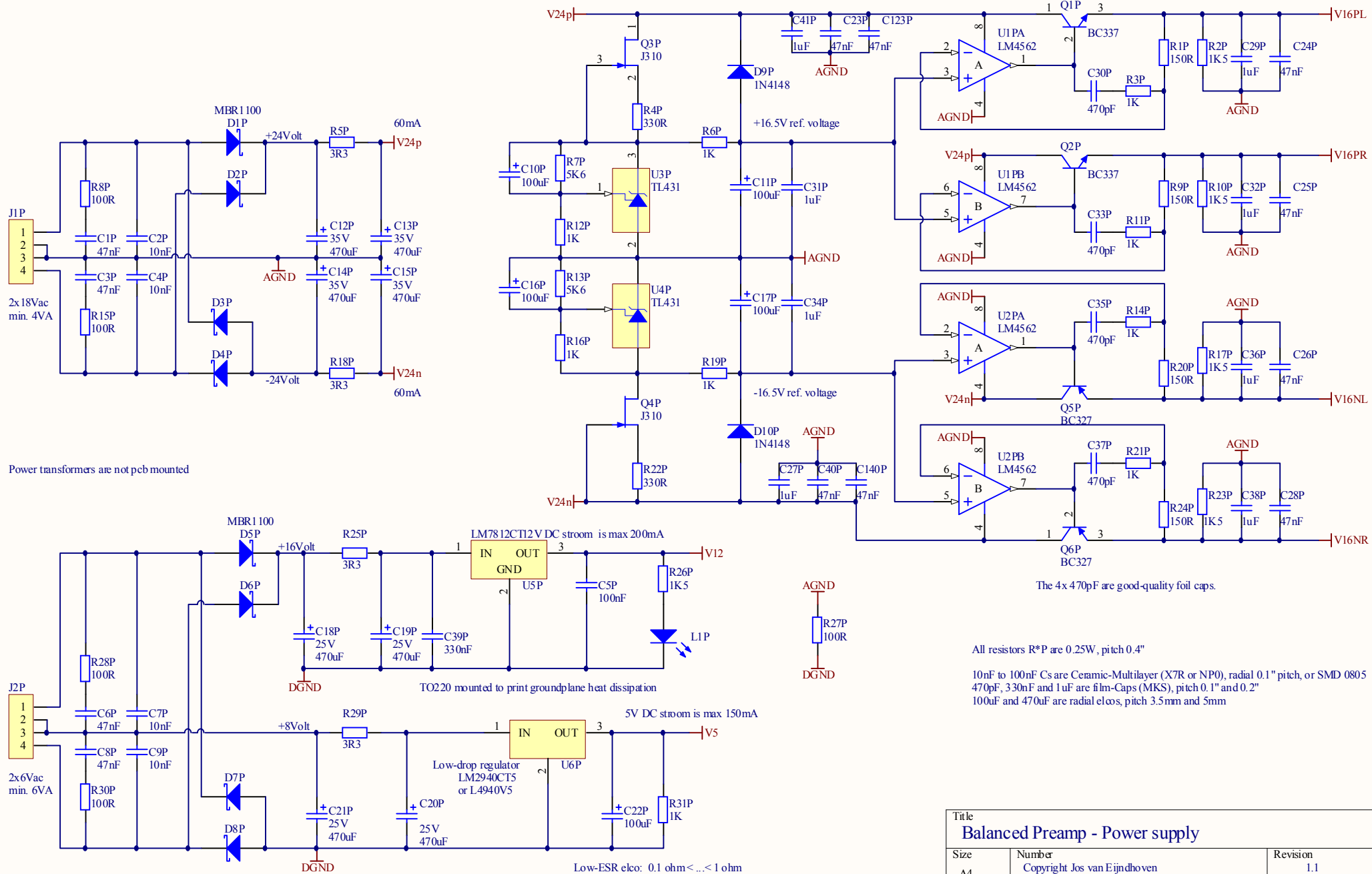
off: balanced mode, on: single-ended mode

Title		
Balanced preamp - Left Audio		
Size	Number	Revision
A4		1.1
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Date:	4-4-2009	Sheet of
File:	E:\DOCUMENTS\JOS\SheetRelaysLeftS	By: jos@vaneijndhoven.net



off: balanced mode, on: single-ended mode

Title		
Balanced preamp - Right Audio		
Size	Number	Revision
A4		1.1
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Date:	4-4-2009	Sheet of
File:	E:\DOCUMENTS\JOS\Sheet Relays Right	SD4400 By: jos@vaneijndhoven.net

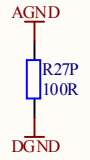


Power transformers are not pcb mounted

TO220 mounted to print groundplane heat dissipation

Low-drop regulator LM2940CT5 or L4940V5

Low-ESR elco: 0.1 ohm <...< 1 ohm



The 4x 470pF are good-quality foil caps.

All resistors R*P are 0.25W, pitch 0.4"

10nF to 100nF Cs are Ceramic-Multilayer (X7R or NP0), radial 0.1" pitch, or SMD 0805
 470pF, 330nF and 1uF are film-Caps (MKS), pitch 0.1" and 0.2"
 100uF and 470uF are radial elcos, pitch 3.5mm and 5mm

Title Balanced Preamp - Power supply		
Size A4	Number Copyright Jos van Eijndhoven	Revision 1.1
Date: 4-4-2009	Sheet of	
File: E:\DOCUMENTS\JOS\SheetPower.SCH	Drawn By: jos@vaneijndhoven.net	

