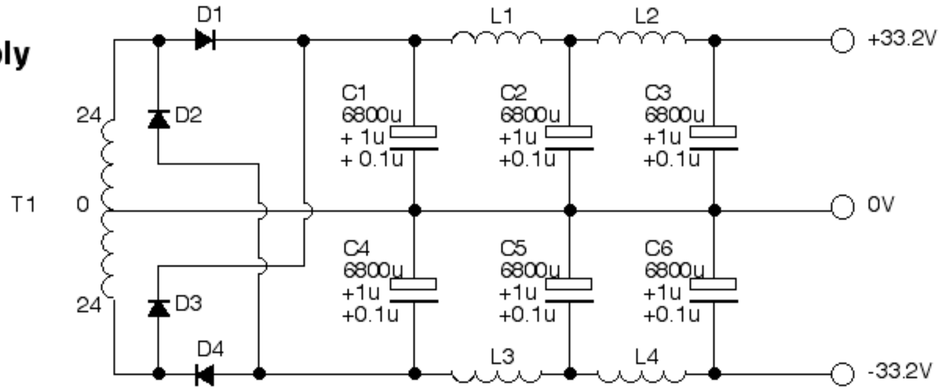
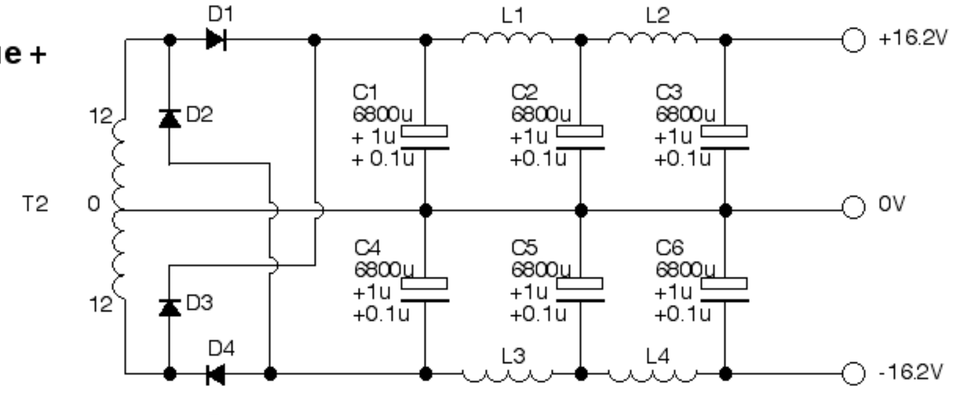
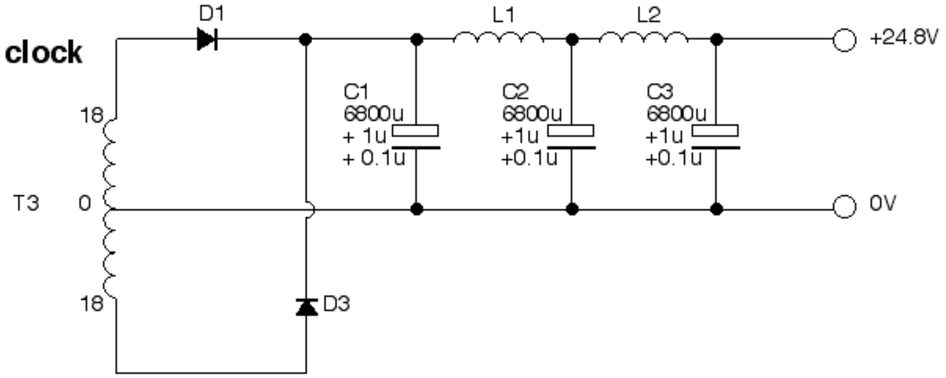
Analogue supply (o/p: + - 22V)



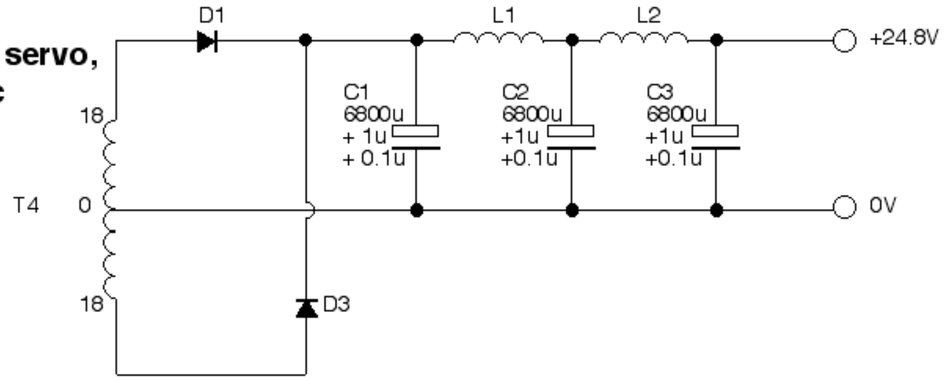
Dacs (analogue + digital) (o/p: + - 10V)



Digital supply: clock (o/p: + 15V)



Digital supply: servo, front panel, etc (o/p: + 15V)



Notes:

6800uF + 10uH give a turnover of 610Hz

Try without the decoupling/bypass capacitors initially

Transformer secondary voltages need to be high enough to account for the VBE drop-out

Components:

Capacitors
All electrolytic: 6800u, 50V, Nippon Chemi-con, SMH
All 1u: Wima MKS4 polyester
All 0.1u: Vishay MKP1837 polypropylene (RS no.: 166-6487; Farnell no.: 116-6887)

Inductors
All inductors: 10uh, 6.5A Panasonic ELC 18B series, ferrite core (RS no. 233 5364)

Semi-conductors
All rectifiers: MBR20200CTG (RS no.: 463-987)

Transformers
T1: 0-24, 0-24, Les W special - laminated
T2: 0-12, 0-12, Block FL series pcb mounting (RS no.: 201-7561)
T3: 0-18, 0-18, Block FL series pcb mounting (RS no.: 201-7599)
T4: 0-18, 0-18, Block FL series pcb mounting (RS no.: 201-7599)

Node Corporation	Node-XPS raw psu
Draft: A October 3rd 2010	Revision: 1
Transformer + raw C-L-C-L-C stages	