

DDDAC 1794 NOS

A Modular DAC, based on
PCM1794,
WM8804
and USB WaveIO

USB	384kHz
SPDIF	192kHz

Updated in this doc:

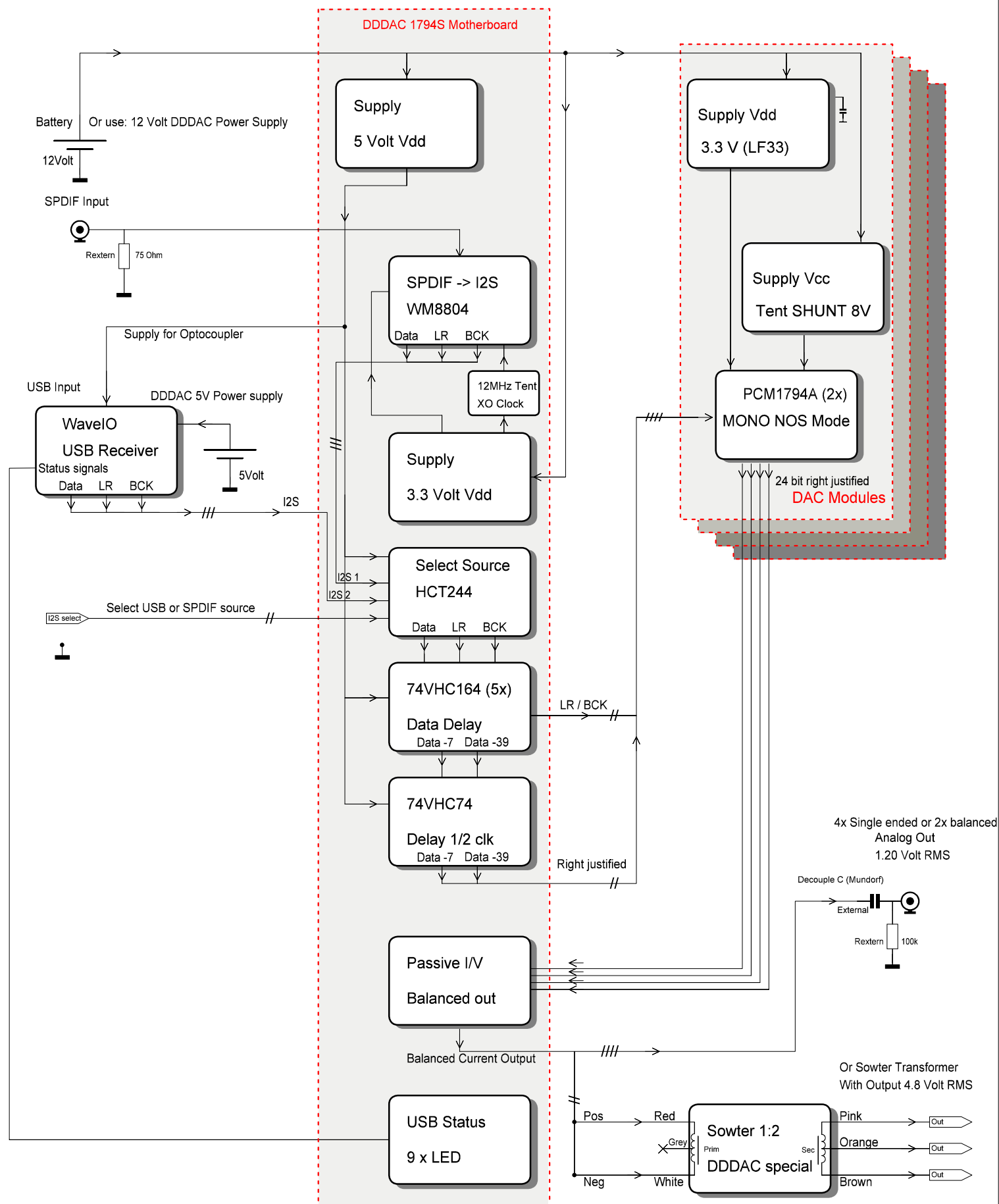
Updated Mainboard (PCB: only XO Tent Clock)
DAC Module PBT (Powered By Tent)

- 8 Volt supply embedded Tentlabs Shunt regulator
 - Pin 20 Current source option

By Doede Douma
Version 4.4

Updated 13th April May 2016

<http://www.dddac.com/>

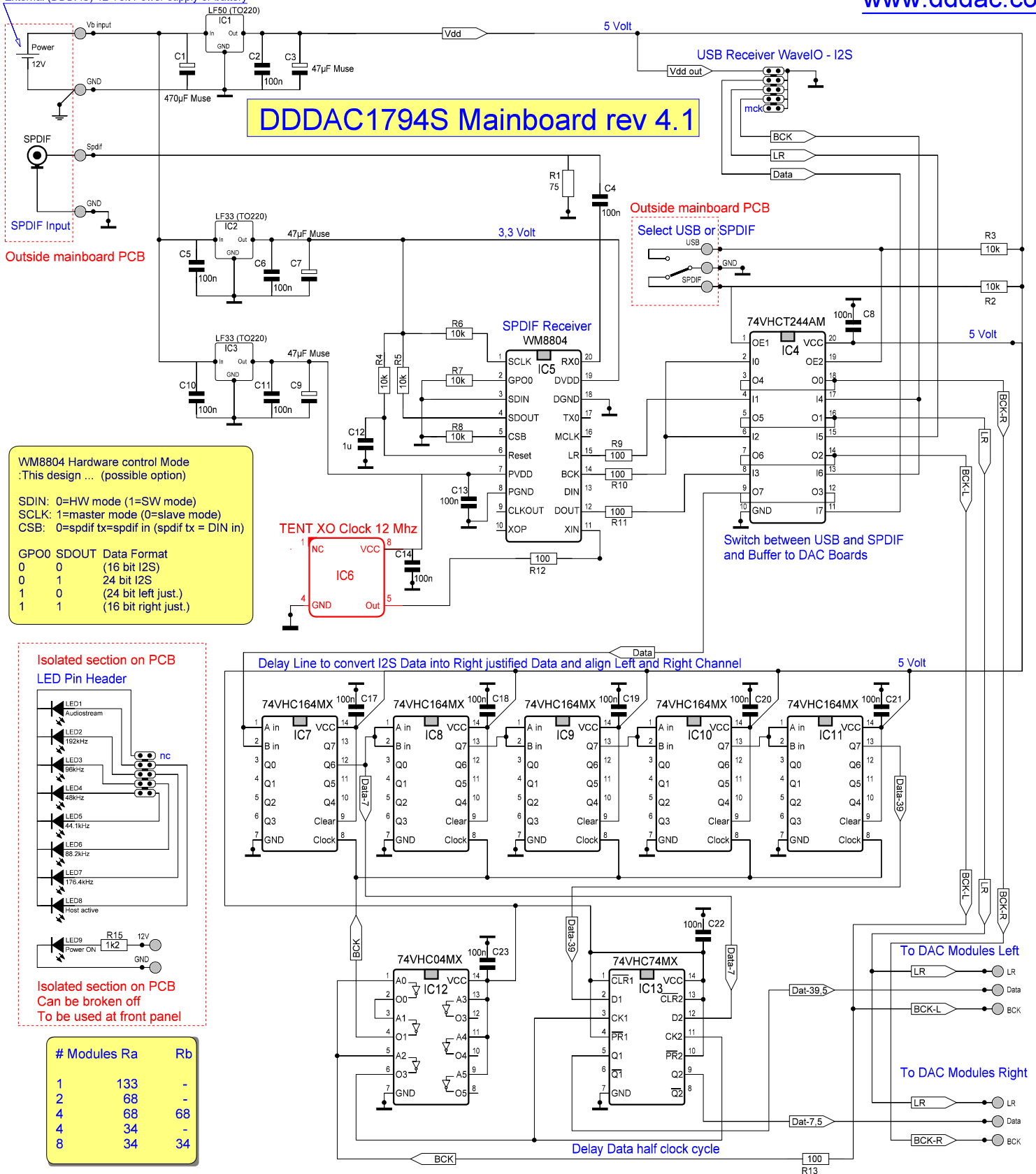


Notes for data delay section:

Data delay is needed to convert I2S data into right justified datastream to work with "no digital filter" mode
 Datastream must be delayed by 7 clock cycles (31 - 24)
 Left Channel must be delayed another 32 clock cycles to align left and right channel sample

DDDAC 1794S PBT NOS DAC

Update: 12-04-2016		Author: Doede Douma	
Revision: 5.0	Built: YES	Design ready: YES	Page: 1 # 7



Analog Out options / Only one Channel shown

Outside mainboard PCB

Analog Out single ended or symmetrical

Capacitor coupled

Outside mainboard PCB

Transformer coupled

DDDAC 1794S NOS DAC

Update: 12-04-2016

Author: Doede Douma

Revision: 5

Built: YES

Design ready: YES

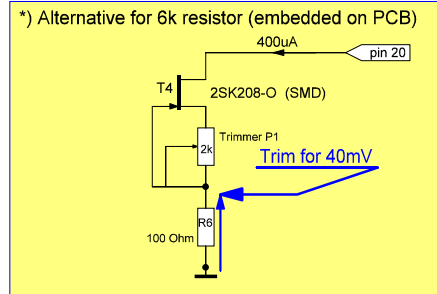
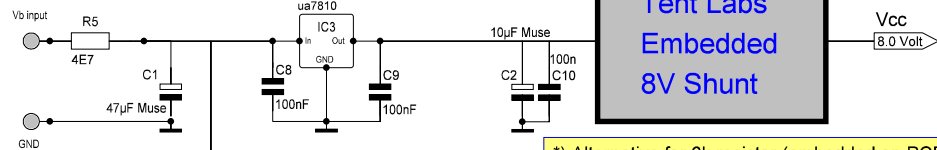
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DDDAC1794 DAC Module Powered By Tent

www.dddac.com

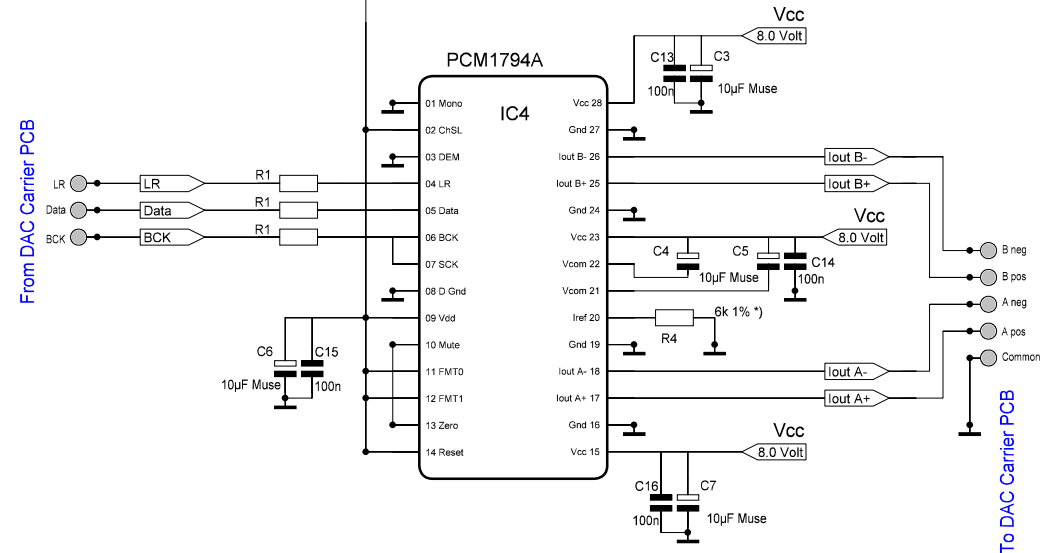
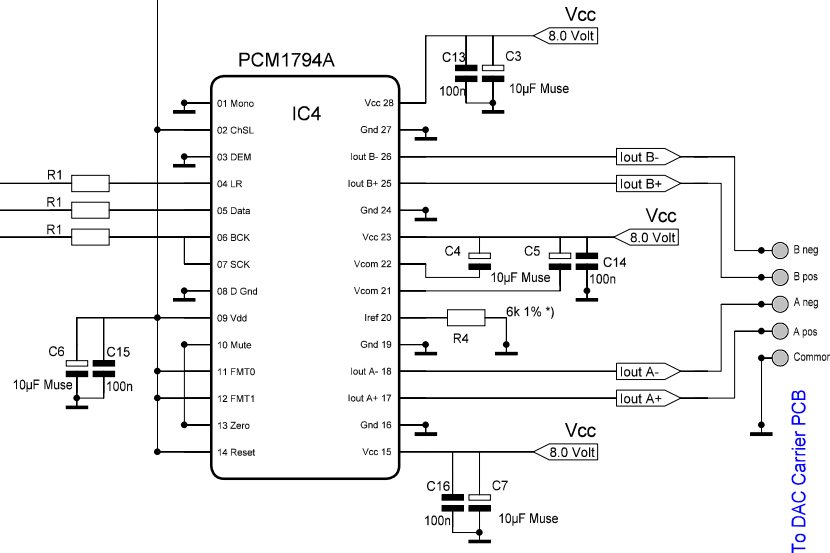
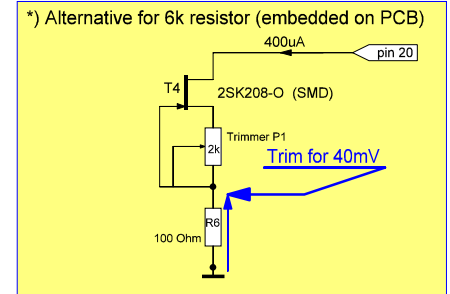
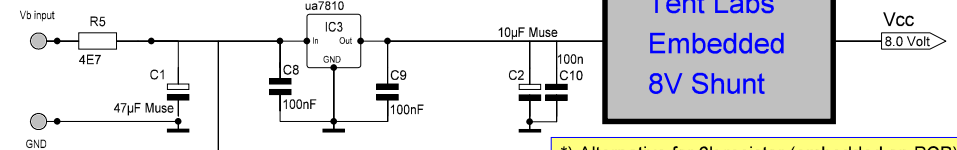
Left Channel

Tent Labs
Embedded
8V Shunt



Right Channel

Tent Labs
Embedded
8V Shunt



Groundplanes are separated

Notes:

All Film capacitors are Wima MKS2

All Electrolyte capacitors Nichicon Muse KZ

Optional HF Decouple capacitors are Wima MKP4 or MKP10

*) Per Deck use multiples of ~ 4,7nF, i.e 4 Decks 22nF

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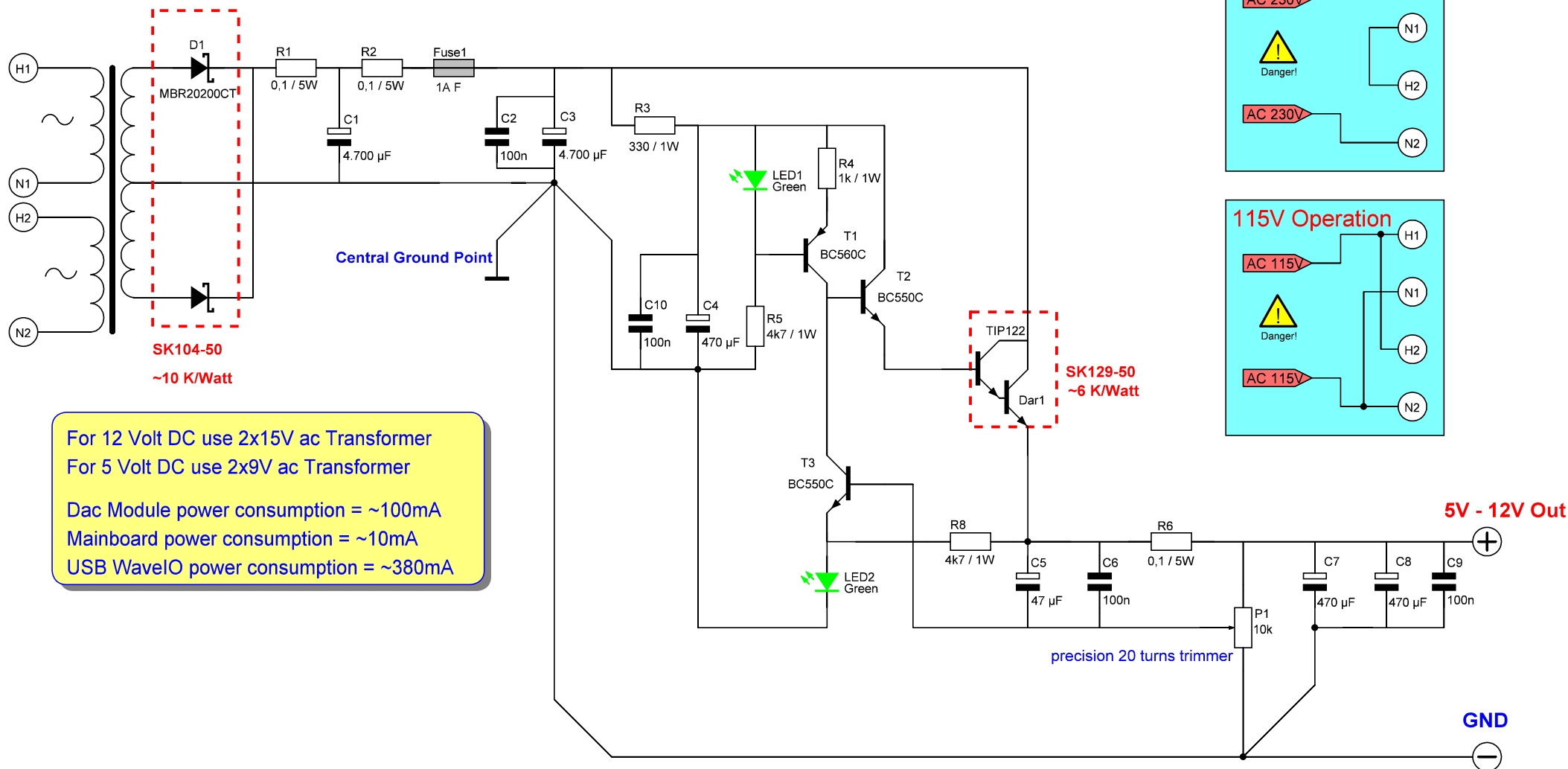
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DDDAC1794 Power Supply 5V / 12V 1A

www.dddac.com

Tr / 25VA

2 x9V or 2x15V



Notes:

Use Trimmer P1 to adjust output at 5.0 Volt or 12 Volt

Actual Output current is limited by Fuse and rating of Transformer

47uF and 470uF are Nichicon Muze Audio Grade KZ series Capacitors - (25 or 50 Volts)

4.700uF are Nichicon Long Life Capacitors. Series HE (25 Volts)

DDDAC 1794 NOS DAC

Update: 14-11-2012

Author: Doede Douma

Revision: 3.1

Built:
YES

Design ready:
YES

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