

DDDAC 2000

Digital to Analog Converter

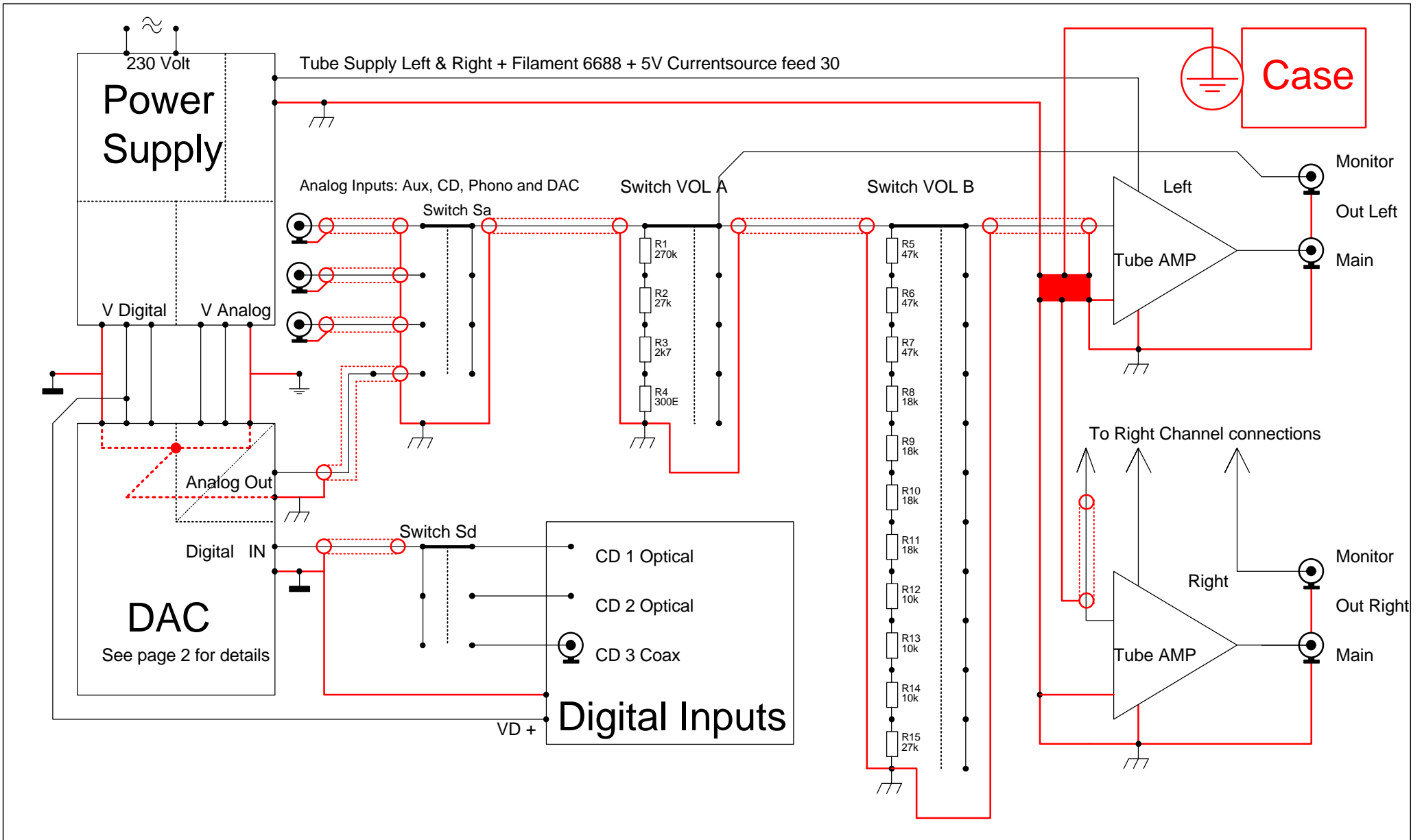
And




Tube Line AMP

By Doede Douma

Version 2.2 Updated November 21, 2001

www.dddac.de



 Analog Ground Line AMP
 Analog Ground DAC
 Digital Ground DAC

Switch VOL A: Pre Volume Range 0dB, -20dB, -40dB, -60dB

Switch VOL B: Volume Range 0dB, -2dB, -4dB, -6dB, -8dB, -9dB, -11dB, -14dB, -15dB, -17dB, -20dB, -99dB

DDDAC 2000, Block Diagram

Update: 24-12-2000

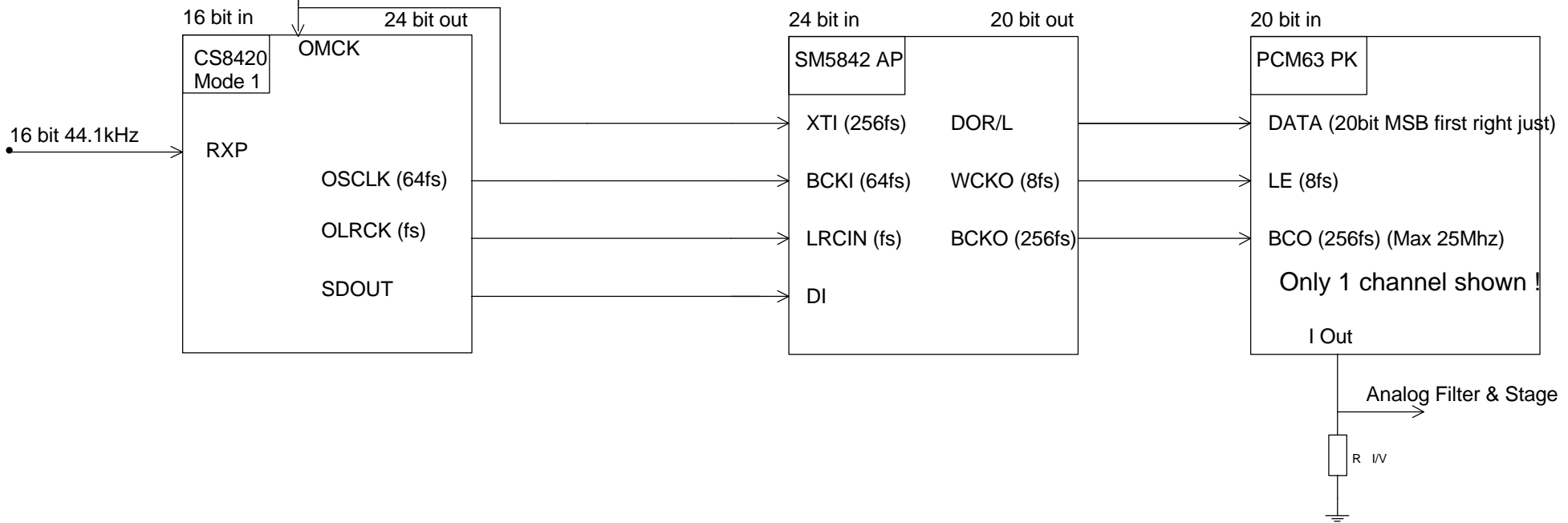
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XClock Oscillator
 256 x fs
 fs = 44.1 - 50 kHz

fs	8 fs freq	64 fs freq	256 fs freq
44.1 kHz	352,8Hz	2.8224 MHz	11.2896 MHz
50.78125 kHz	406.25 kHz	3.2500 MHz	13.0000 MHz



At Clockspeeds of 256fs clocked data is 32 bit wide

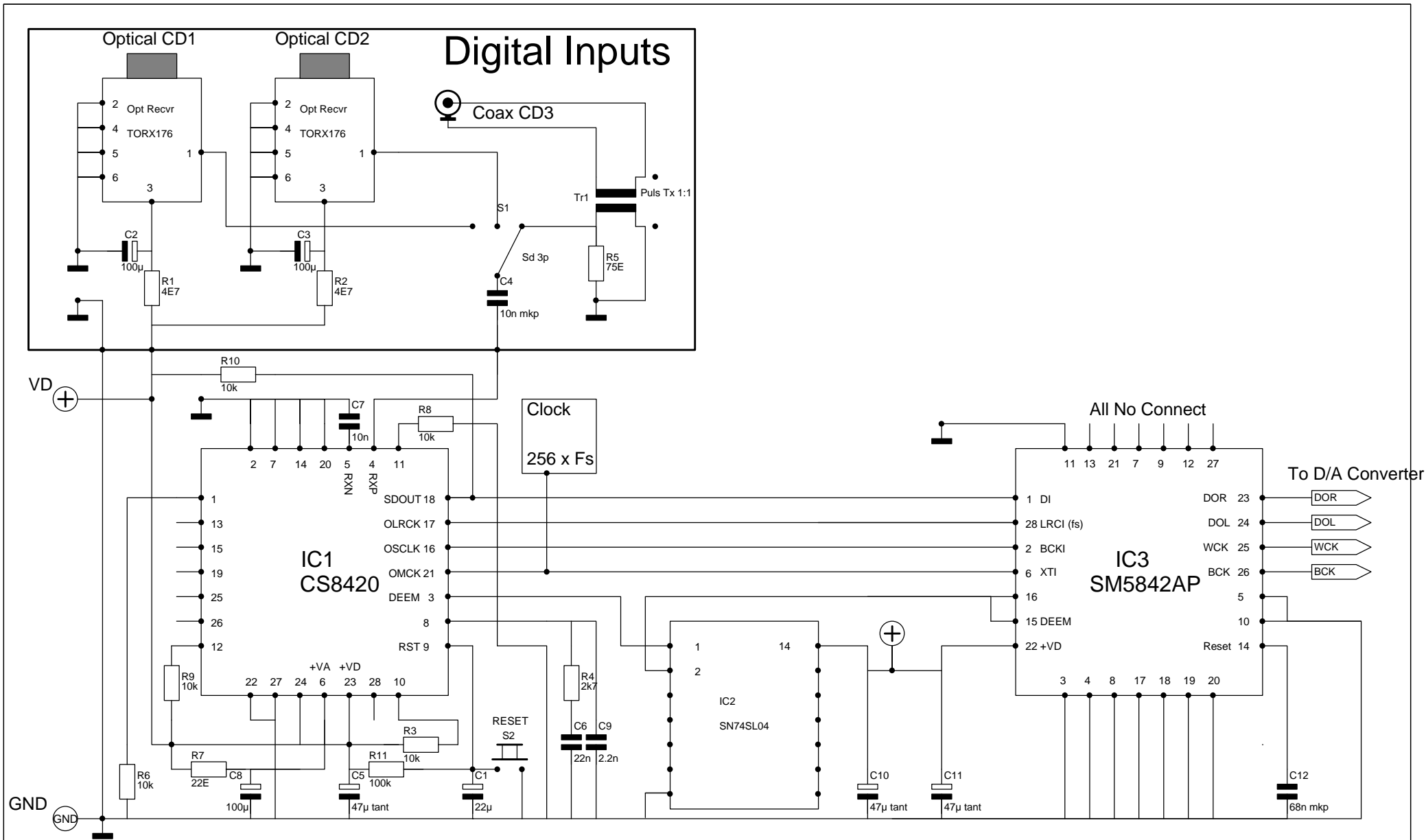
DDDAC 2000, DAC Basics

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S2: RESET

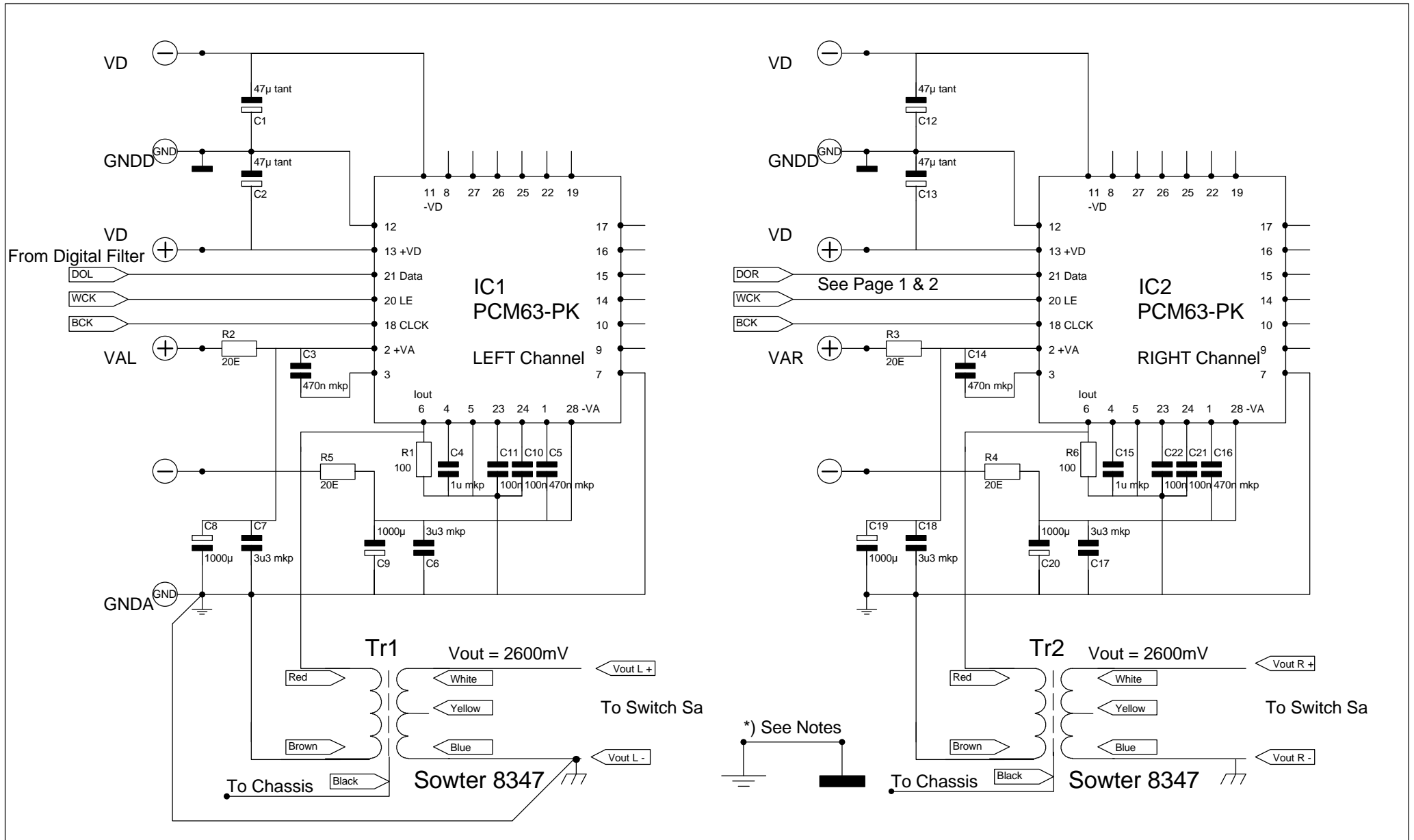
DDDAC 2000, Digital Filter

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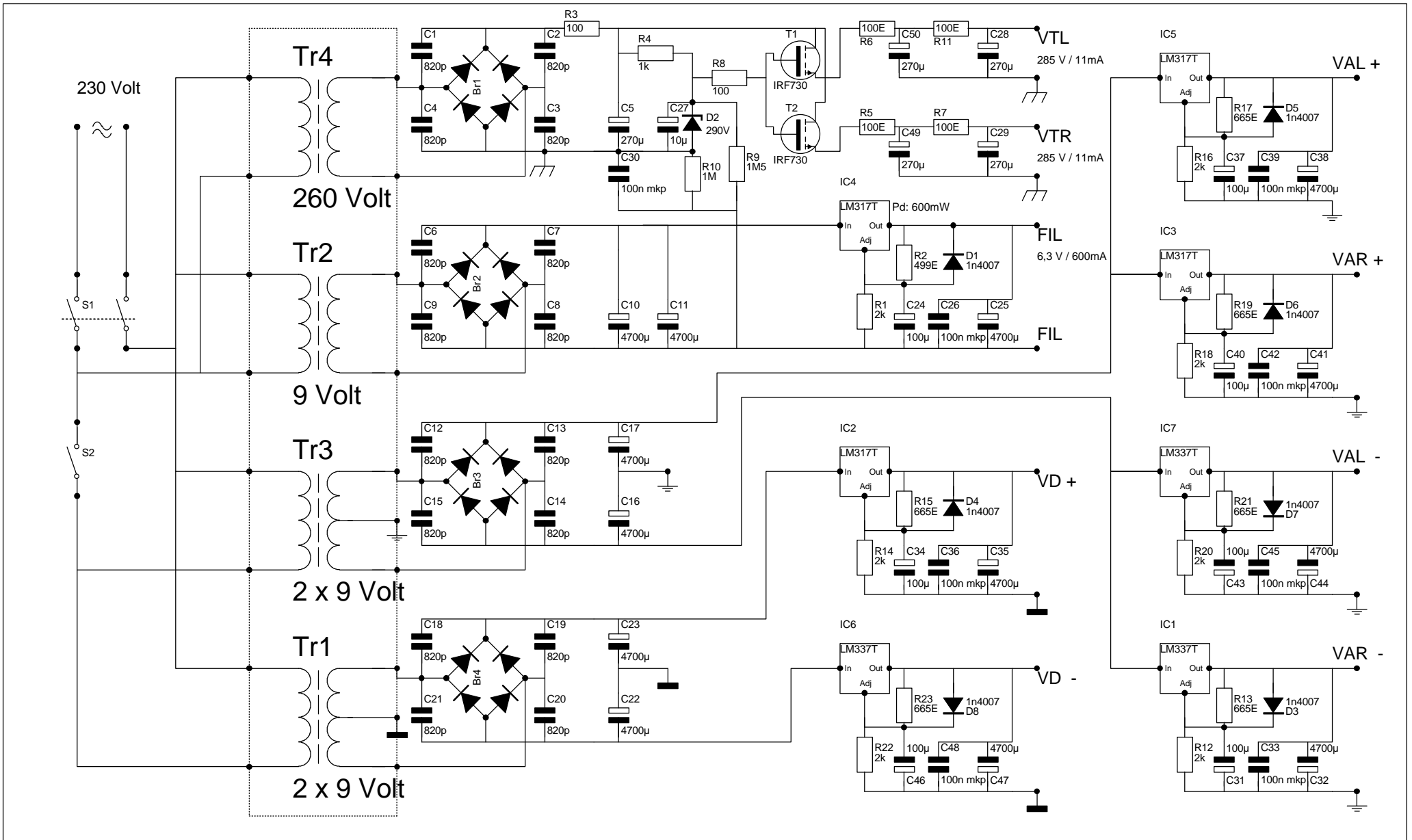





 Digital Ground
  Analog Ground Line AMP
 Analog Ground

DDDAC 2000, DAC Stage

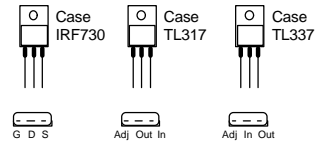
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*) Connect both grounds at one point close to PCM63P



-  Analog Ground Line AMP
-  Analog Ground DAC
-  Digital Ground DAC

VTL: 285 Volt
 FIL: 6,3 Volt
 VD/VA: 5,0 Volt



DDDAC 2000, Power Supply	
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