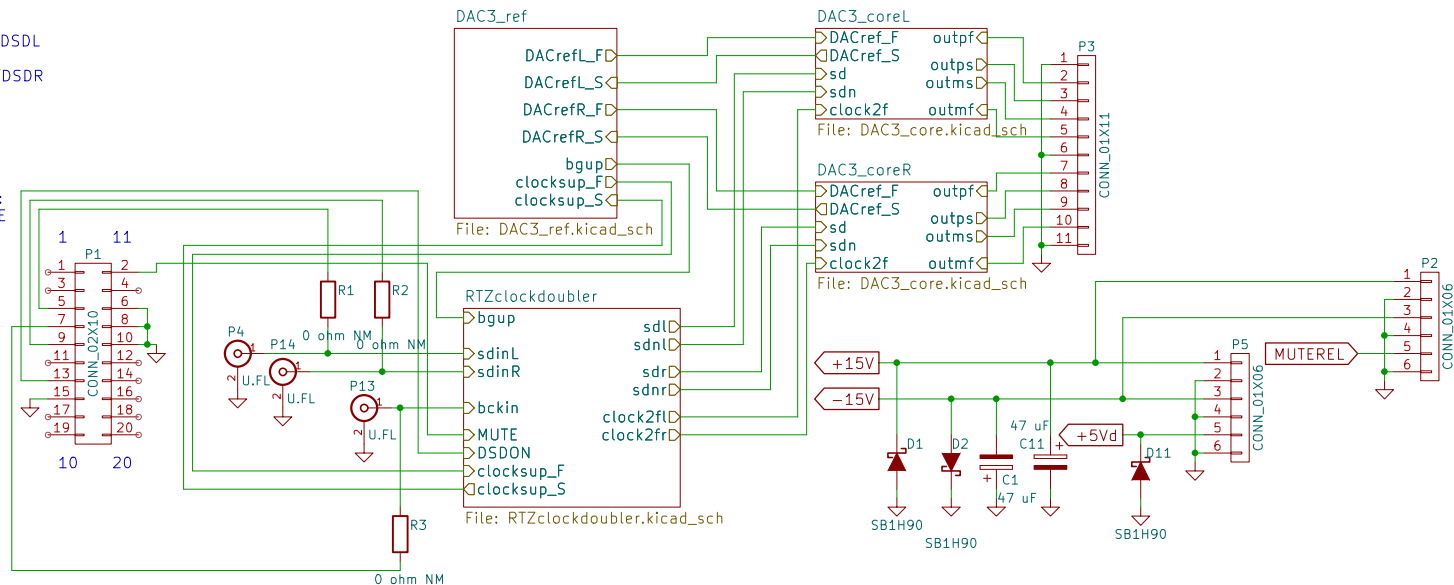


Amanero Combo384:  
side of pin 1:  
XTMS  
XTDO  
OUT\_I2S\_DATA/DSDL  
OUT\_I2S\_CLK  
OUT\_I2S\_FSCL/DSDR  
OUT\_MCLK  
OUT\_DSD\_ON  
GND  
VCC\_3.3V  
VCC\_3.3V

Side of pin 20:  
XTDI  
GND  
GND  
GND  
DSD64\_128  
FS0  
FS1  
FS2  
FS3



P6 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P7 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P8 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P9 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P10 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P11 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P12 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

P15 TST  
Mounting\_Holes:MountingHole\_3.2mm\_M3

Sheet: /  
File: DAC3.kicad\_sch

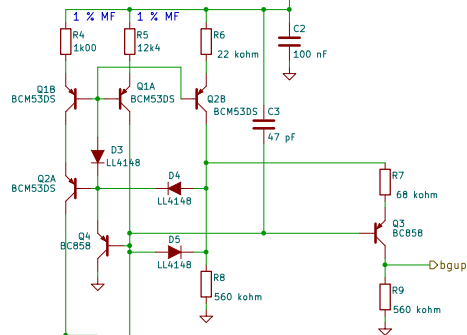
**Title:**

Size: A4  
KiCad E.D.A. 8.0.1

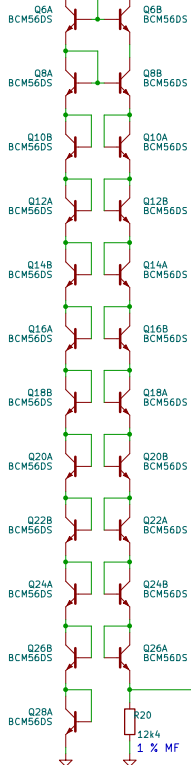
Date:

**Rev:**  
Id: 1/5

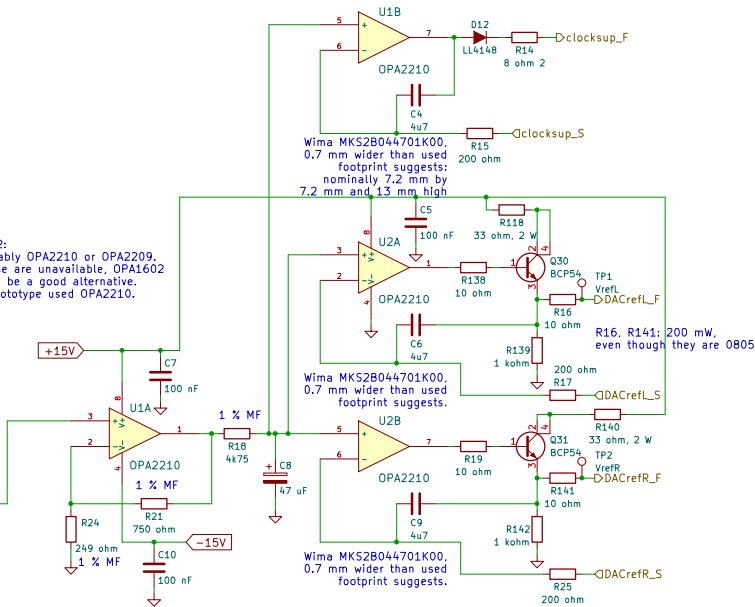
R4:  
1k004298009 with BCM's -> 1 kohm E96



1 % MF:  
+/- 1 %, 0.5 W or 0.6 W through-  
hole metal film resistors



U1, U2:  
preferably OPA2210 or OPA2209.  
If those are unavailable, OPA1602  
should be a good alternative.  
The prototype used OPA2210.



Sheet: /DAC3_ref/		
File: DAC3_ref.kicad_sch		
<b>Title:</b>		
Size: A3	Date:	Rev:
KiCad E.D.A. 8.0.1		Id: 2/5

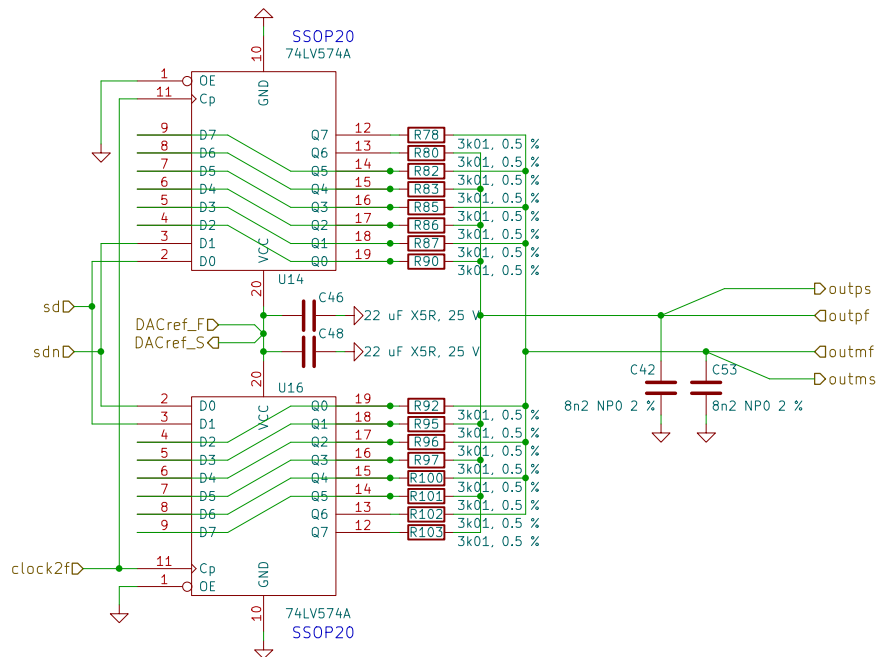


Sheet: /DAC3\_coreL/  
File: DAC3\_core.kicad\_sch

Size: A4	Date:
KiCad E.D.A. 8.0.1	

Rev:  
Id: 5/5

All DAC resistors thin film



The 22 uF X5R capacitors can have a lower voltage rating (16 V or even 10 V) if their nonlinearity is not too extreme, that is, if they have at least 70 % of their nominal capacitance at 5 V. 1206 capacitors should also fit on the 1210 PCB footprints.

Sheet: /DAC3\_coreR/  
File: DAC3\_core.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. 8.0.1

Date:

**Rev:**  
Id: 4/5