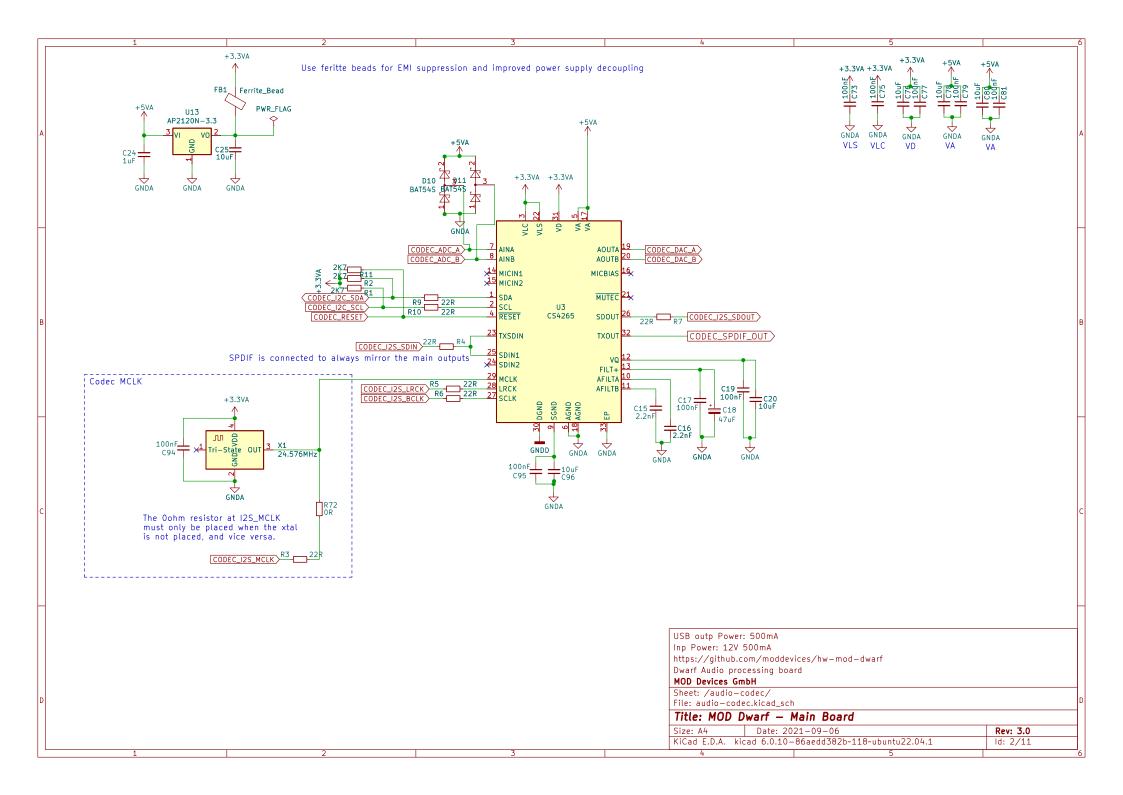
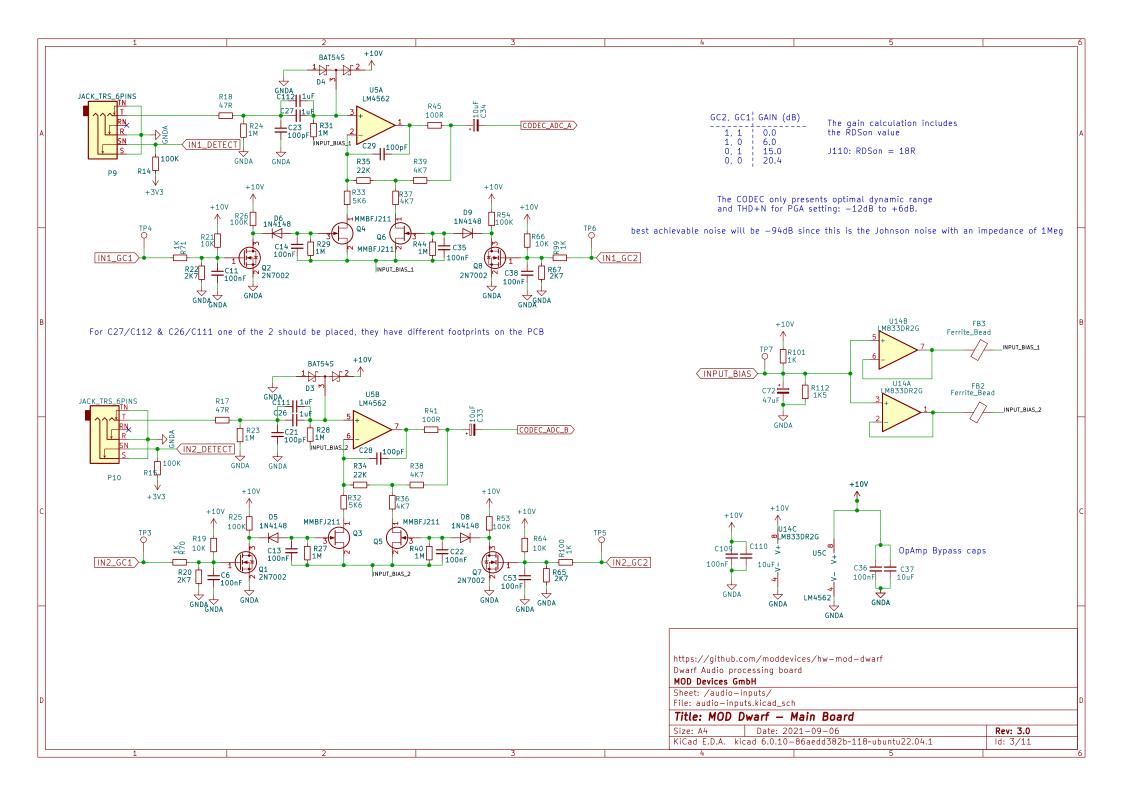
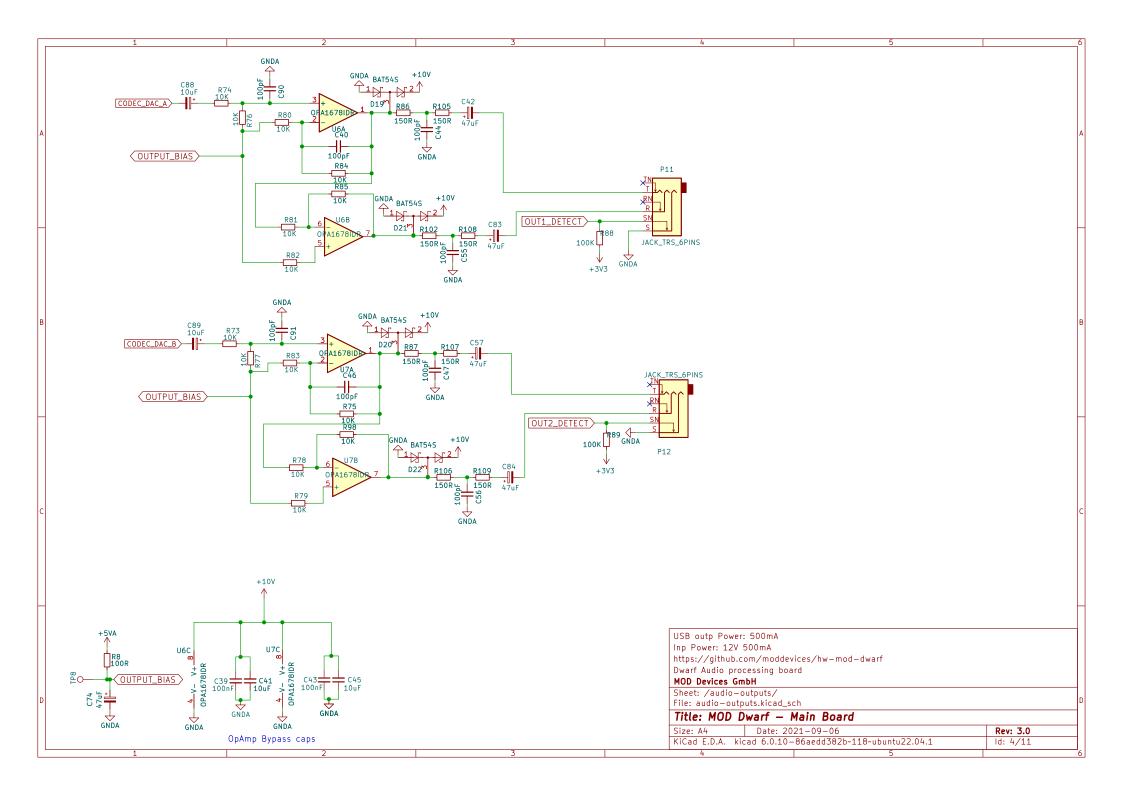
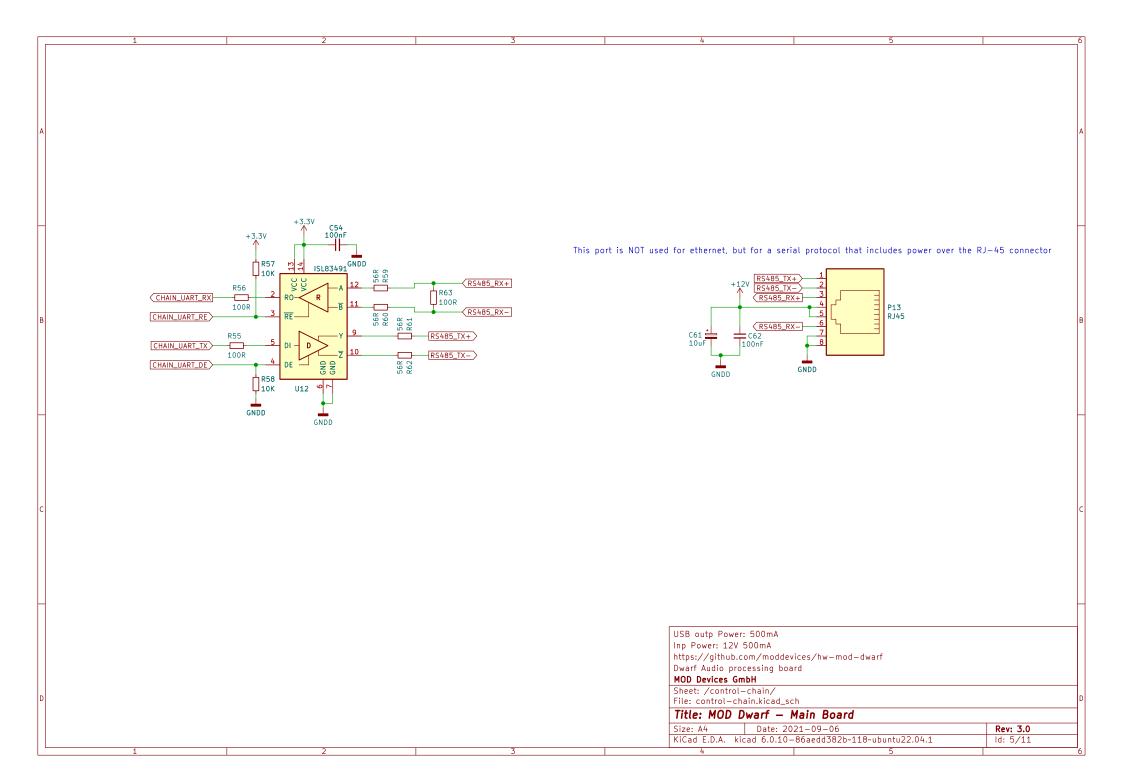
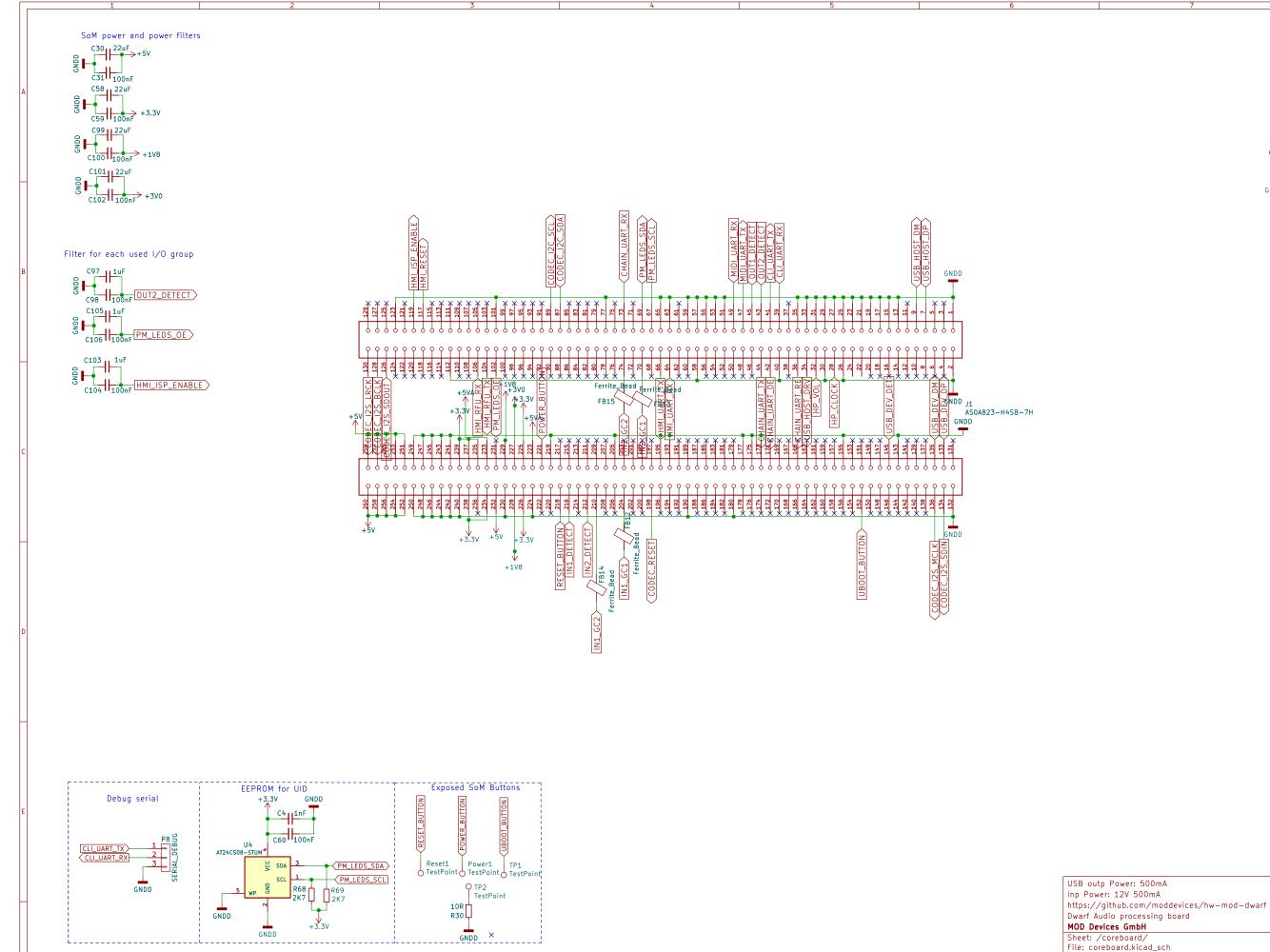
	1 2	3		4 5	
		<u> </u>			
	power	audio-codec	usb		
		File: audio—codec.kicad_sch	File: usb.kicad_		
N.	File: power.kicad_sch			SCN	A
	coreboard	audio—inputs	midi		
	File: coreboard.kicad_sch	File: audio—inputs.kicad_sch	File: midi.kicad_	sch	
	mechanics	audio-outputs	control-chain		
	File: mechanics.kicad_sch	File: audio-outputs.kicad_sch	File: control-ch	nain.kicad_sch	
		headphone			
3					В
		File: Headphone.kicad_sch			-
	,				
_	Notes				
	<ul> <li>All resistors named as RA* must have 1% tolerance</li> <li>All non-polarized capacitors named as CA* must use NPO Temp. Coef.</li> <li>All other non-polarized capacitors should use X7R Temp. Coef.</li> <li>Decoupling caps must be placed as close as possible of the IC power pins</li> </ul>				
	l	as exose as possible of the to power p			
					C
1	<b></b>				
				USB outp Power: 500mA	
				Inp Power: 12V 500mA	
				https://github.com/moddevices/hw-mod-dwarf	
				Dwarf Audio processing board	
				MOD Devices GmbH Sheet: /	
				File: bottom-board.kicad_sch	D
				Title: MOD Dwarf — Main Board	
				Size: A4 Date: 2021-09-06	Rev: 3.0
				KiCad E.D.A. kicad 6.0.10-86aedd382b~118~ubuntu22.04.1	ld: 1/11
	1 I 2	1 3	1	4 5	Ι 6'











Conn\_01x25

Title: MOD Dwarf — Main Board

Size: A3 Date: 2021-09-06 KiCad E.D.A. kicad 6.0.10-86aedd382b-118-ubuntu22.04.1 Controller connector

LM4811 has adjustable gain of -33dB to +12dB, this is applied to the main out signal Minimal load of 16 ohm with 0.1% THD+N Max power 105mW GNDA 100F C664 MT R110 C67 CODEC\_DAC\_B MMBFJ211 10uF R91 C66 D17 BAT54S U8 GNDA R93 56K VOUT1 10uF C70 R103 6R8 /IN1 GNDA 100uF LM4811 C85 R96 VIN2 VOUT2 √ 75K AudioJack3 SHDN UP/DN BYPASS GNDA GNDA 4 CLOCK Q9 MMBFJ211 GNDA C69 CODEC\_DAC\_A GNDA D18 R95 22R 10uF BAT54S C71 R104 6R8 GNDA C86 + GNDA GNDA GNDA **↓** GNDA USB outp Power: 500mA Inp Power: 12V 500mA https://github.com/moddevices/hw-mod-dwarf Dwarf Audio processing board MOD Devices GmbH Sheet: /headphone/ File: Headphone.kicad\_sch Title: MOD Dwarf - Main Board Date: 2021-09-06 Size: A4 Rev: 3.0 KiCad E.D.A. kicad 6.0.10-86aedd382b~118~ubuntu22.04.1 ld: 7/11

