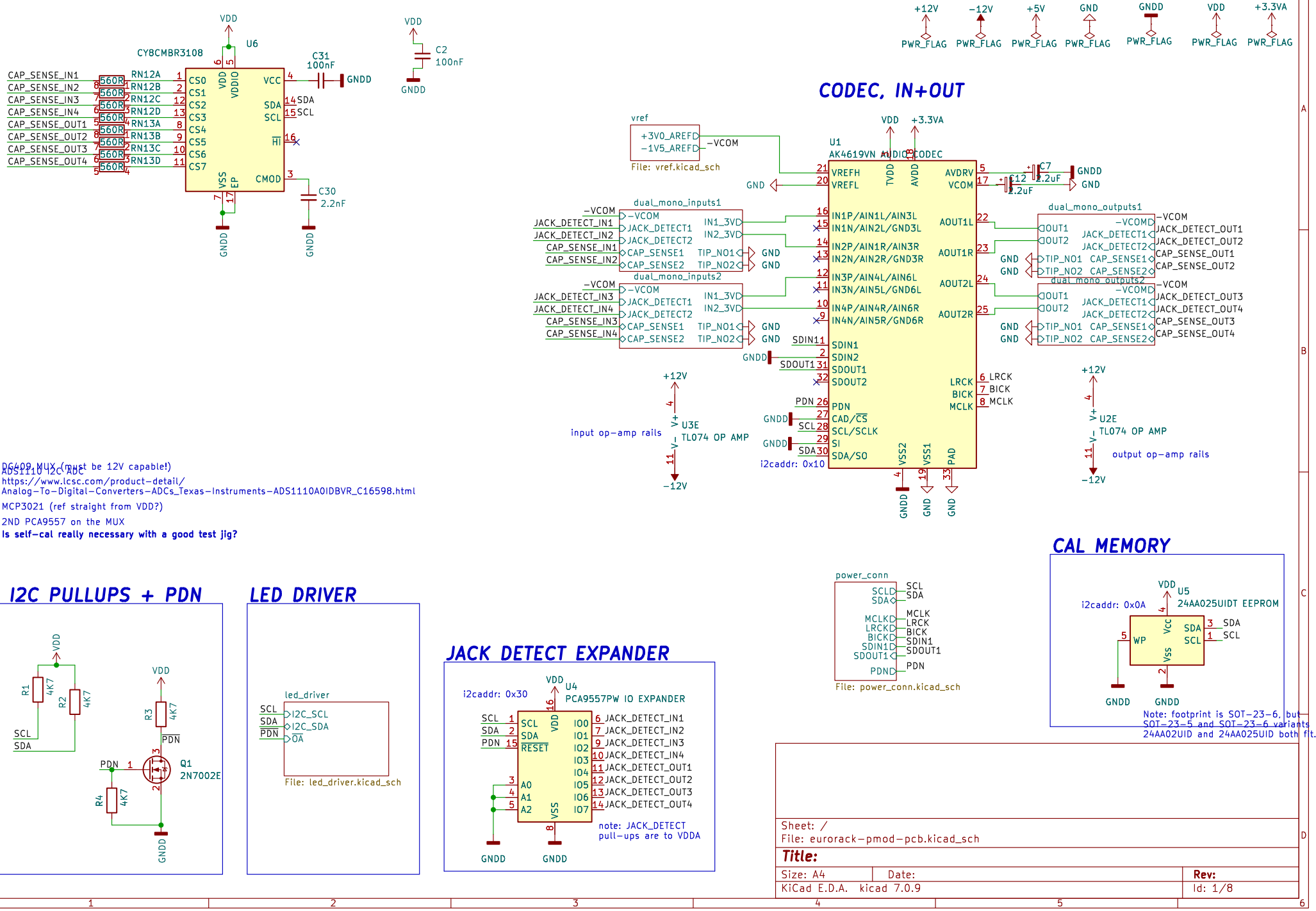
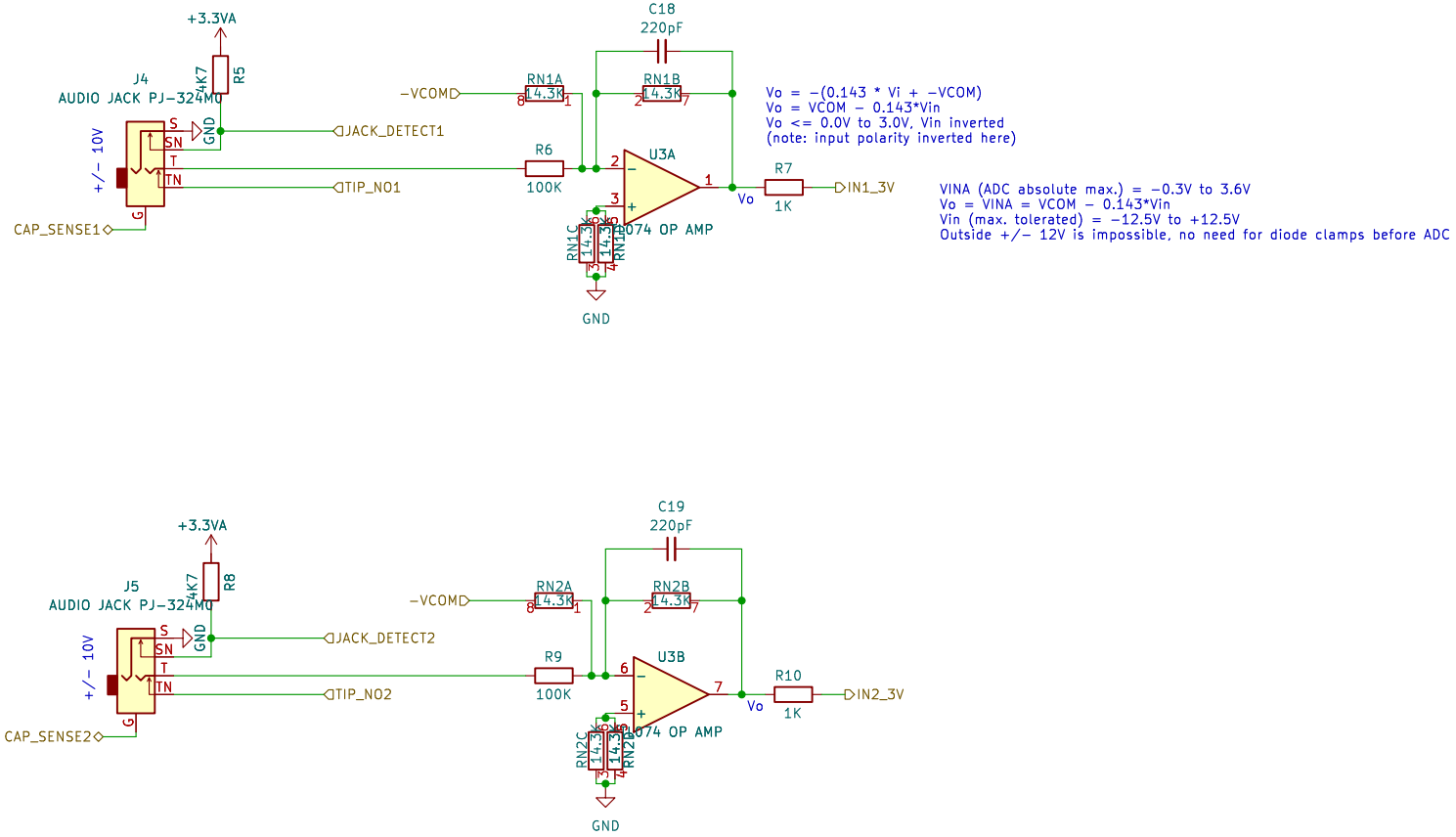
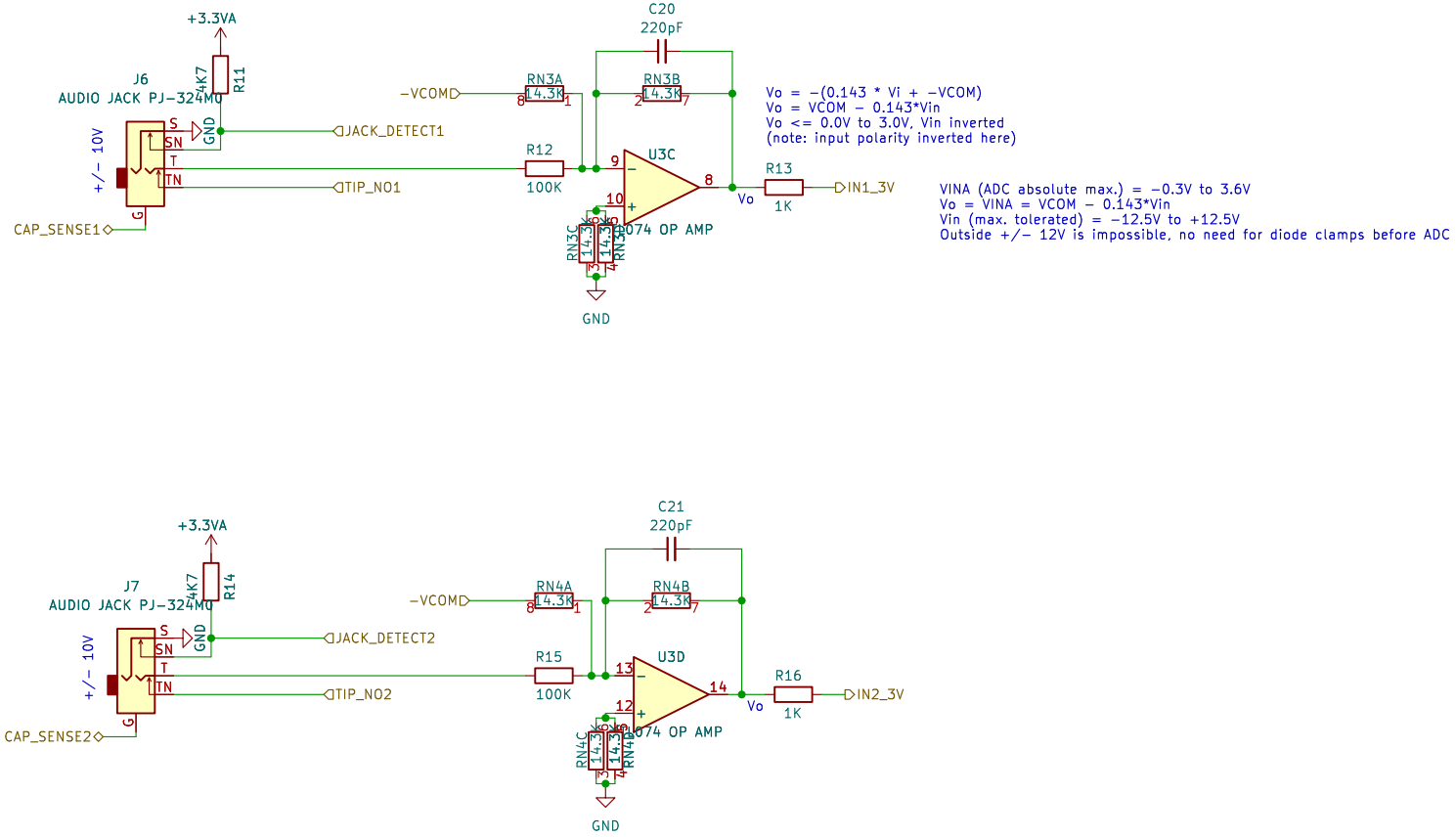

CY8CMBR3108
U6
CAP_SENSE_IN1
CAP_SENSE_IN2
CAP_SENSE_IN3
CAP_SENSE_IN4
CAP_SENSE_OUT1
CAP_SENSE_OUT2
CAP_SENSE_OUT3
CAP_SENSE_OUT4
RN12A
RN12B
RN12C
RN12D
RN13A
RN13B
RN13C
RN13D
560R
C31
100nF
C2
100nF
C30
2.2nF
VDD
GNDD
SDA
SCL
+12V
-12V
+5V
GND
+3.3VA
PWR_FLAG
CODEC, IN+OUT
U1
AK4619VN AUDIO CODEC
vref
+3V0_AREFD
-1V5_AREFD
-VCOM
File: vref.kicad_sch
dual_mono_inputs1
dual_mono_inputs2
JACK_DETECT_IN1
JACK_DETECT_IN2
JACK_DETECT_IN3
JACK_DETECT_IN4
dual_mono_outputs1
dual_mono_outputs2
JACK_DETECT_OUT1
JACK_DETECT_OUT2
JACK_DETECT_OUT3
JACK_DETECT_OUT4
input op-amp rails
U3E
TL074 OP AMP
U2E
output op-amp rails
i2caddr: 0x10
DG409 MUX (must be 12V capable!)
ADS1110 I2C ADC
https://www.lcsc.com/product-detail/Analog-To-Digital-Converters-ADCs_Texas-Instruments-ADS1110A0IDBVR_C16598.html
MCP3021 (ref straight from VDD?)
2ND PCA9557 on the MUX
Is self-cal really necessary with a good test jig?
I2C PULLUPS + PDN
LED DRIVER
led_driver
I2C_SCL
I2C_SDA
OA
File: led_driver.kicad_sch
JACK DETECT EXPANDER
i2caddr: 0x30
U4
PCA9557PW IO EXPANDER
note: JACK_DETECT pull-ups are to VDDA
power_conn
File: power_conn.kicad_sch
CAL MEMORY
i2caddr: 0x0A
U5
24AA025UIDT EEPROM
Note: footprint is SOT-23-6, but SOT-23-5 and SOT-23-6 variants 24AA02UID and 24AA025UID both fit.
Sheet: /
File: eurorack-pmod-pcb.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 7.0.9
Id: 1/8

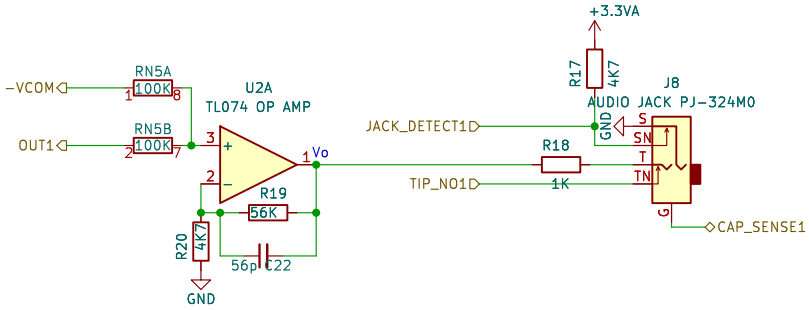


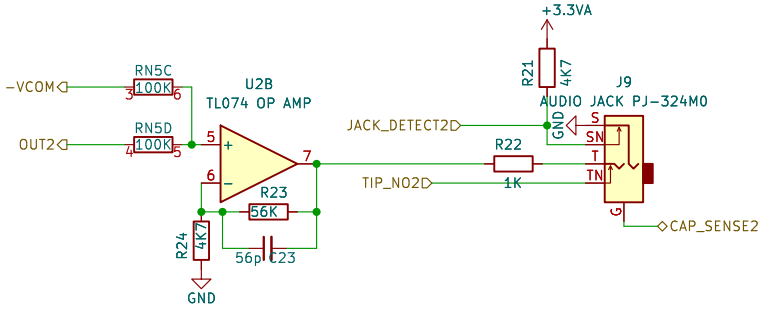
Sheet: /dual_mono_inputs1/	
File: dual_mono_inputs.kicad_sch	
Title:	
Size: A4	Date:
KiCad E.D.A. kicad 7.0.9	Id: 2/8



Sheet: /dual_mono_inputs2/		
File: dual_mono_inputs.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.9		Id: 3/8

Vo = (1 + 56/4.7)(AOUT - VCOM)/2
Vo = 6.46 * (AOUT - 1.65V)
0.1V in => -10V out, 3.2V in => +10V out

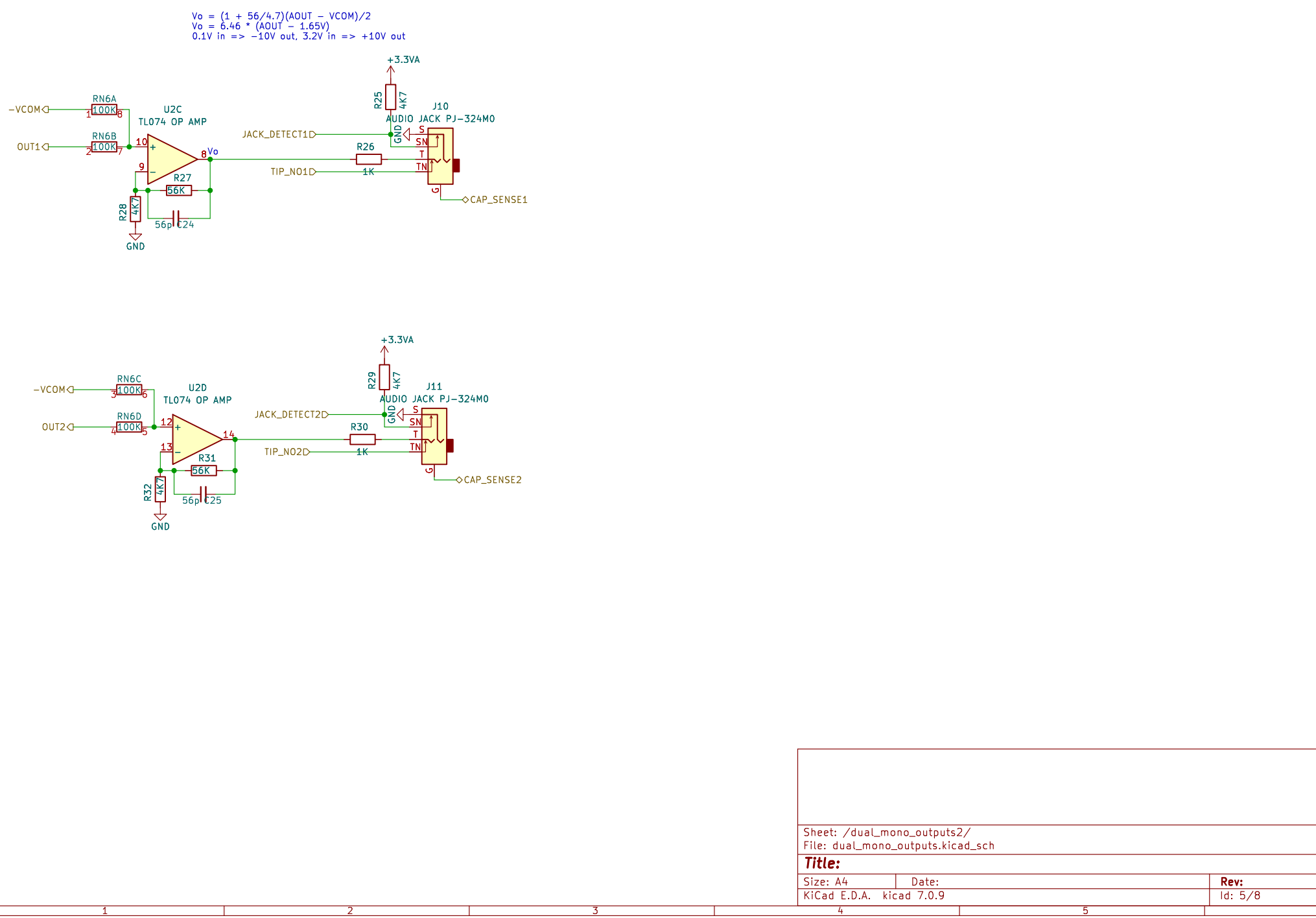




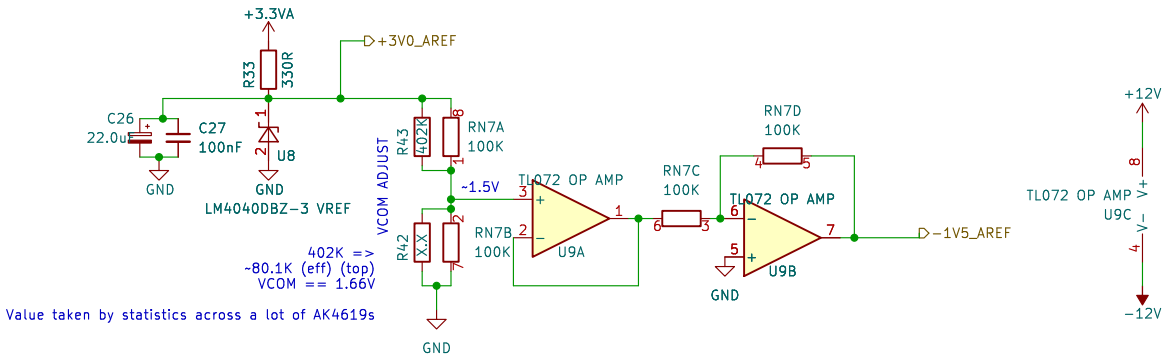
Sheet: /dual_mono_outputs1/
File: dual_mono_outputs.kicad_sch

Title:

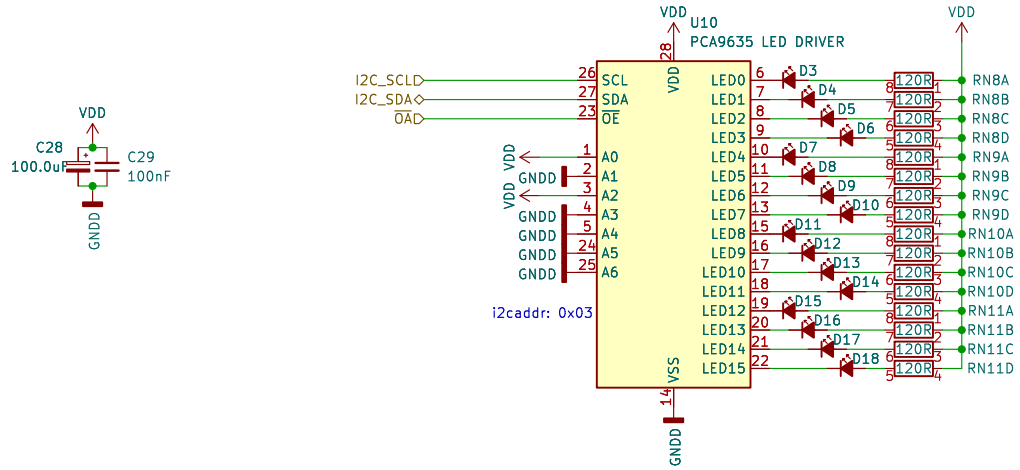
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.9		Id: 4/8



Sheet: /dual_mono_outputs2/		
File: dual_mono_outputs.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.9		Id: 5/8



Sheet: /vref/		
File: vref.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.9		Id: 6/8

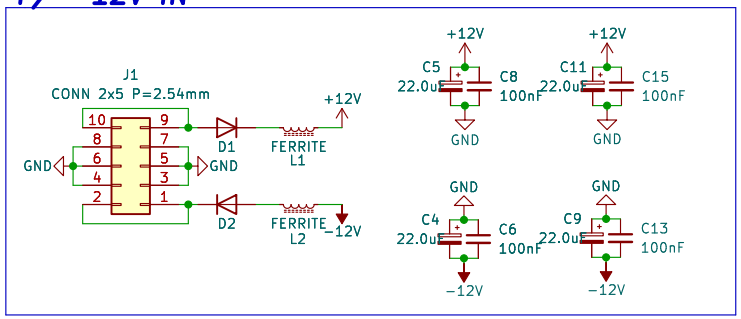


Sheet: /led_driver/
File: led_driver.kicad_sch

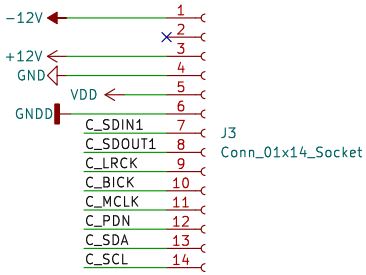
Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.9		Id: 7/8

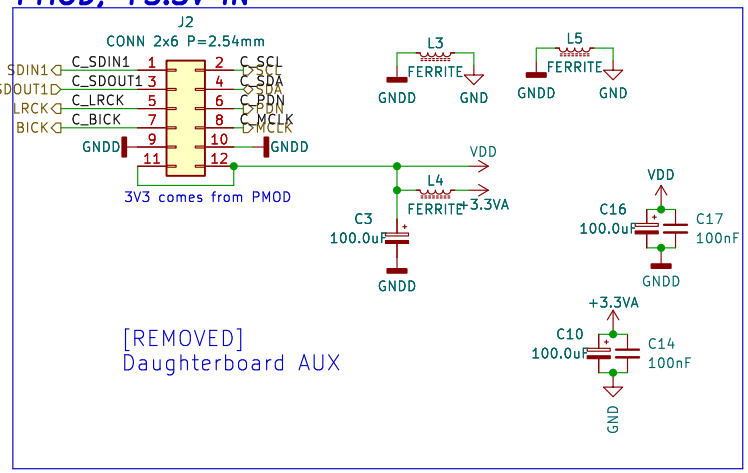
+/- 12V IN



FFC INGRESS or AUX BOARD
AUX could recieve OR provide +/- 12V
Must supply 3V3



PMOD, +3.3V IN



Sheet: /power_conn/		
File: power_conn.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.9		Id: 8/8