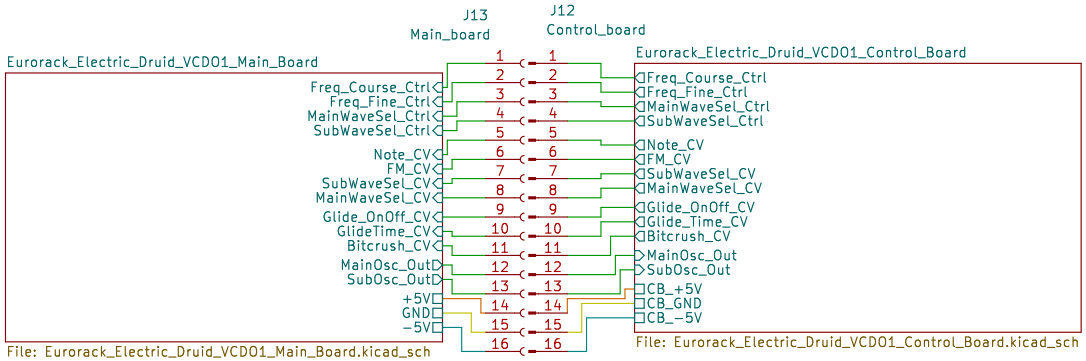

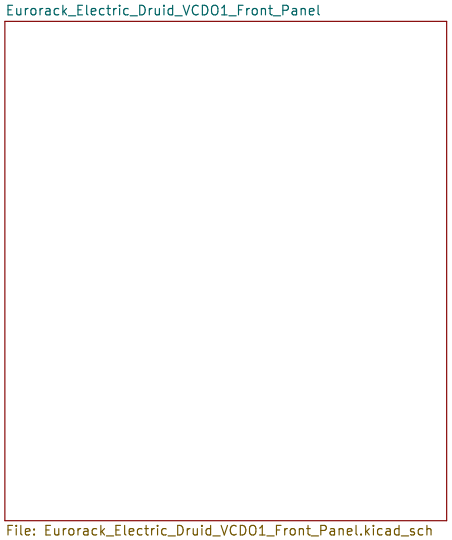

This version is a prototype

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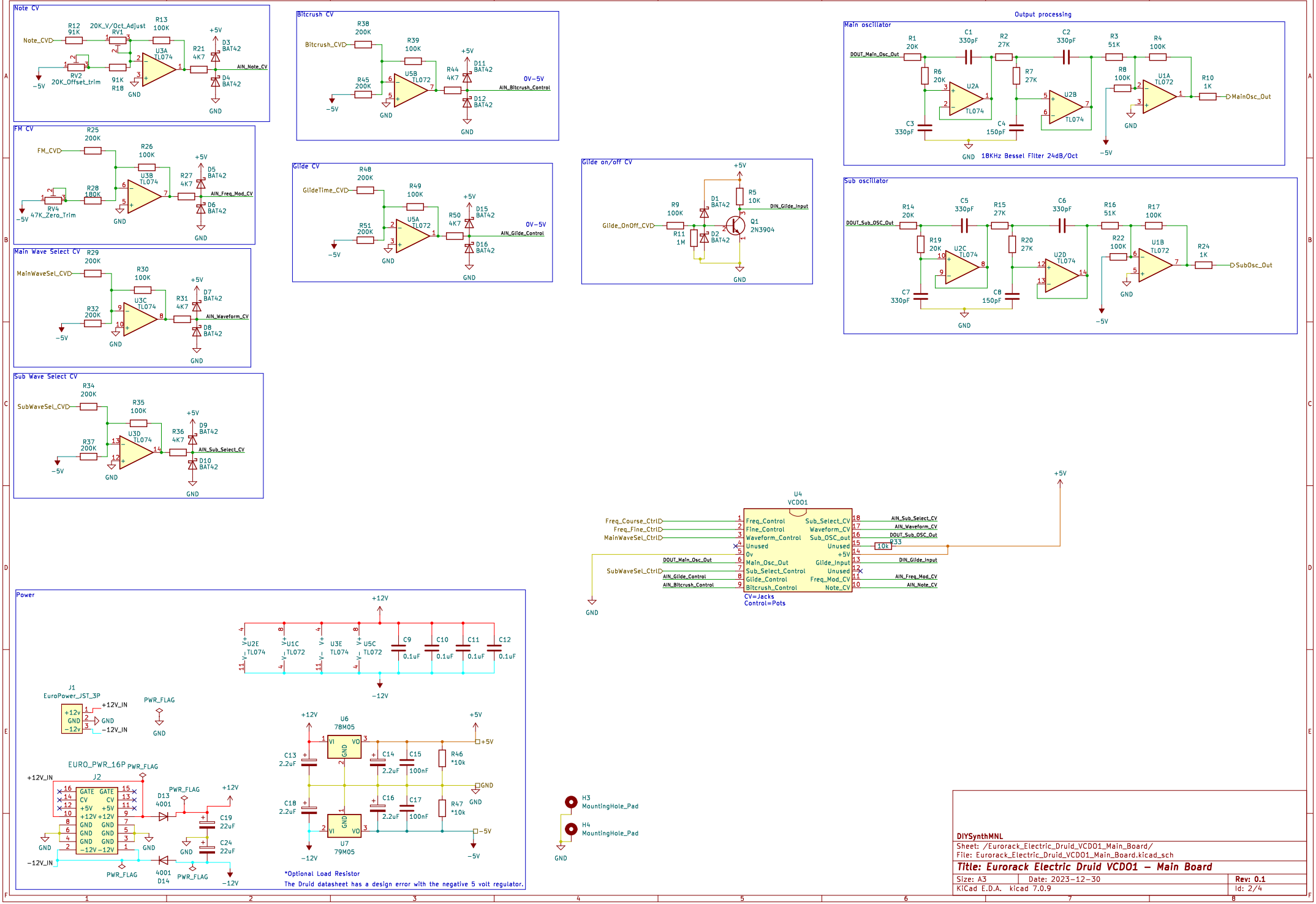
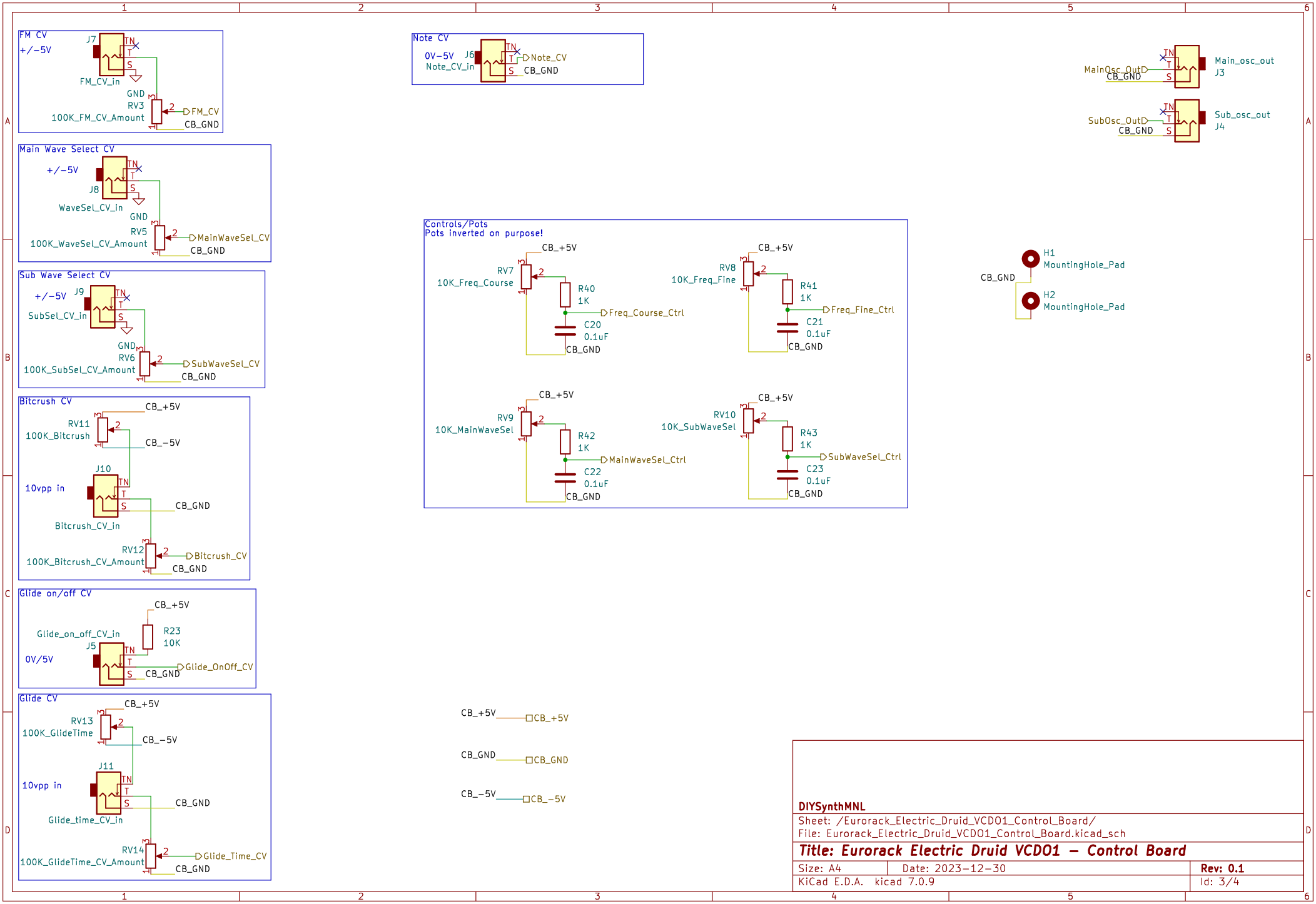
Sheet: /

File: Electric Druid VCDO1.kicad_sch

Title: Eurorack Electric Druid VCDO1 – Root Sheet

Size: A4	Date: 2023-12-30	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.9		Id: 1/4


Note CV
Note_CV
20K_V/Oct_Adjust
20K_Offset_trim
AIN_Note_CV
Bitcrush CV
Bitcrush_CV
AIN_Bitcrush_Control
0V–5V
Glide CV
GlideTime_CV
AIN_Glide_Control
Glide on/off CV
Glide_OnOff_CV
DIN_Glide_Input
Output processing
Main oscillator
DOUT_Main_Osc_Out
MainOsc_Out
18KHz Bessel Filter 24dB/Oct
Sub oscillator
DOUT_Sub_OSC_Out
SubOsc_Out
FM CV
FM_CVD
47K_Zero_Trim
AIN_Freq_Mod_CV
Main Wave Select CV
MainWaveSel_CVD
AIN_Waveform_CV
Sub Wave Select CV
SubWaveSel_CVD
AIN_Sub_Select_CV
U4
VCDO1
Freq_Course_Ctrl
Freq_Fine_Ctrl
MainWaveSel_Ctrl
SubWaveSel_Ctrl
Freq_Control
Fine_Control
Waveform_Control
Unused
0v
Main_Osc_Out
Sub_Select_Control
Glide_Control
Bitcrush_Control
Sub_Select_CV
Waveform_CV
Sub_OSC_out
+5V
Glide_Input
Freq_Mod_CV
Note_CV
CV=Jacks
Control=Pots
Power
J1
EuroPower_JST_3P
+12V_IN
–12V_IN
EURO_PWR_16P
J2
U6
78M05
U7
79M05
*Optional Load Resistor
The Druid datasheet has a design error with the negative 5 volt regulator.
H3
MountingHole_Pad
H4
MountingHole_Pad
DIYSynthMNL
Sheet: /Eurorack_Electric_Druid_VCDO1_Main_Board/
File: Eurorack_Electric_Druid_VCDO1_Main_Board.kicad_sch
Title: Eurorack Electric Druid VCDO1 – Main Board
Size: A3
Date: 2023-12-30
Rev: 0.1
KiCad E.D.A. kicad 7.0.9
Id: 2/4


FM CV
+/−5V
J7
TN
T
S
FM_CV_in
GND
RV3
100K_FM_CV_Amount
FM_CV
CB_GND
Note CV
0V−5V
J6
Note_CV_in
Note_CV
CB_GND
MainOsc_OutD
CB_GND
Main_osc_out
J3
SubOsc_OutD
CB_GND
Sub_osc_out
J4
Main Wave Select CV
+/−5V
J8
WaveSel_CV_in
GND
RV5
100K_WaveSel_CV_Amount
MainWaveSel_CV
CB_GND
Controls/Pots
Pots inverted on purpose!
CB_+5V
RV7
10K_Freq_Course
R40
1K
Freq_Course_Ctrl
C20
0.1uF
CB_GND
RV8
10K_Freq_Fine
R41
1K
Freq_Fine_Ctrl
C21
0.1uF
CB_GND
H1
MountingHole_Pad
CB_GND
H2
MountingHole_Pad
Sub Wave Select CV
+/−5V
J9
SubSel_CV_in
GND
RV6
100K_SubSel_CV_Amount
SubWaveSel_CV
CB_GND
RV9
10K_MainWaveSel
R42
1K
MainWaveSel_Ctrl
C22
0.1uF
CB_GND
RV10
10K_SubWaveSel
R43
1K
SubWaveSel_Ctrl
C23
0.1uF
CB_GND
Bitcrush CV
CB_+5V
RV11
100K_Bitcrush
CB_−5V
J10
10vpp in
CB_GND
Bitcrush_CV_in
RV12
100K_Bitcrush_CV_Amount
Bitcrush_CV
CB_GND
Glide on/off CV
CB_+5V
Glide_on_off_CV_in
R23
10K
J5
0V/5V
Glide_OnOff_CV
CB_GND
Glide CV
CB_+5V
RV13
100K_GlideTime
CB_−5V
J11
10vpp in
CB_GND
Glide_time_CV_in
RV14
100K_GlideTime_CV_Amount
Glide_Time_CV
CB_GND
CB_+5V
CB_+5V
CB_GND
CB_GND
CB_−5V
CB_−5V
DIYSynthMNL
Sheet: /Eurorack_Electric_Druid_VCDO1_Control_Board/
File: Eurorack_Electric_Druid_VCDO1_Control_Board.kicad_sch
Title: Eurorack Electric Druid VCDO1 – Control Board
Size: A4
Date: 2023−12−30
Rev: 0.1
KiCad E.D.A. kicad 7.0.9
Id: 3/4

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Sheet: /Eurorack_Electric_Druid_VCDO1_Front_Panel/

File: Eurorack_Electric_Druid_VCDO1_Front_Panel.kicad_sch

Title: Eurorack Electric Druid VCDO1 – Front Panel

Size: A4	Date: 2023-12-30	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.9		Id: 4/4