Board Interconnection

J1
Conn_01x10_Male
1. −12V
2. AUDIO_BUFF2
3. AUDIO_BUFF4
4. FREQ_POT_5V
5. FREQ_POT
6. GND
7. FREQ_V_OCT1
8. Q_POT
9. AUDIO_MIX
10. AUDIO_IN2

J2
Conn_01x10_Male
1. +12V
2. AUDIO_BUFF1
3. AUDIO_BUFF3
4.
5.
6.
7. GND
8. AUDIO_IN1
9. FREQ_CV_DAMP2
10. FREQ_V_OCT2

J3
Conn_01x10_Male
1. AUDIO_IN3
2. FREQ_V_OCT4
3. FREQ_CV_DAMP4
4. GND
5. AUDIO_IN4
6. GND
7. FREQ_CV_DAMP1
8. FREQ_JACK
9. FREQ_CV_DAMP3
10. FREQ_V_OCT3

Sockets

J11
Freq_In
1
3   FREQ_JACK
2
GND

J6
Audio_Mix
1
3   AUDIO_MIX
2
GND

Potentiometers

FREQ_POT_5V

FREQ_POT ——— FREQ_POT1
10k

GND

+12V

Q_POT ——— Q_CTRL1
10k

GND

12v x 10k / (10k + 14k) = 5V

Reverse Audio taper pot

J4
Audio_In
8
7
6
5
4 AUDIO_IN4
3 AUDIO_IN3
2 AUDIO_IN2
1 AUDIO_IN1

J7
Freq_V_Oct
8
7
6
5
4 FREQ_V_OCT4
3 FREQ_V_OCT3
2 FREQ_V_OCT2
1 FREQ_V_OCT1

J5
Audio_Out
8
7
6
5
4 AUDIO_BUFF4
3 AUDIO_BUFF3
2 AUDIO_BUFF2
1 AUDIO_BUFF1

J8
Freq_CV_Damp
8
7
6
5
4 FREQ_CV_DAMP4
3 FREQ_CV_DAMP3
2 FREQ_CV_DAMP2
1 FREQ_CV_DAMP1
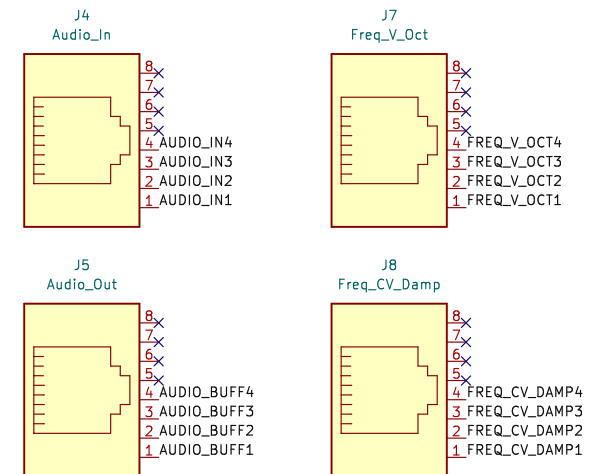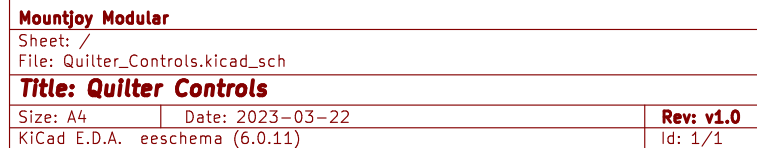
RJ45 Sockets

Connectors and Test Points

TestPoint TP1 ———> +12V
TestPoint TP2 ———> −12V
TestPoint TP3 ———> GND
TestPoint TP4 ———> GND

J9
Conn_02x04_Top_Bottom
FREQ_V_OCT1 1   2 AUDIO_IN1
FREQ_V_OCT2 3   4 AUDIO_IN2
FREQ_V_OCT3 5   6 AUDIO_IN3
FREQ_V_OCT4 7   8 AUDIO_IN4

D1
3d_Model_Components

D2
3d_Model_Panel

+12V <——< PWR_FLAG
−12V <——< PWR_FLAG
GND <——< PWR_FLAG

J10
Conn_01x04_Male
1 AUDIO_BUFF1
2 AUDIO_BUFF2
3 AUDIO_BUFF3
4 AUDIO_BUFF4