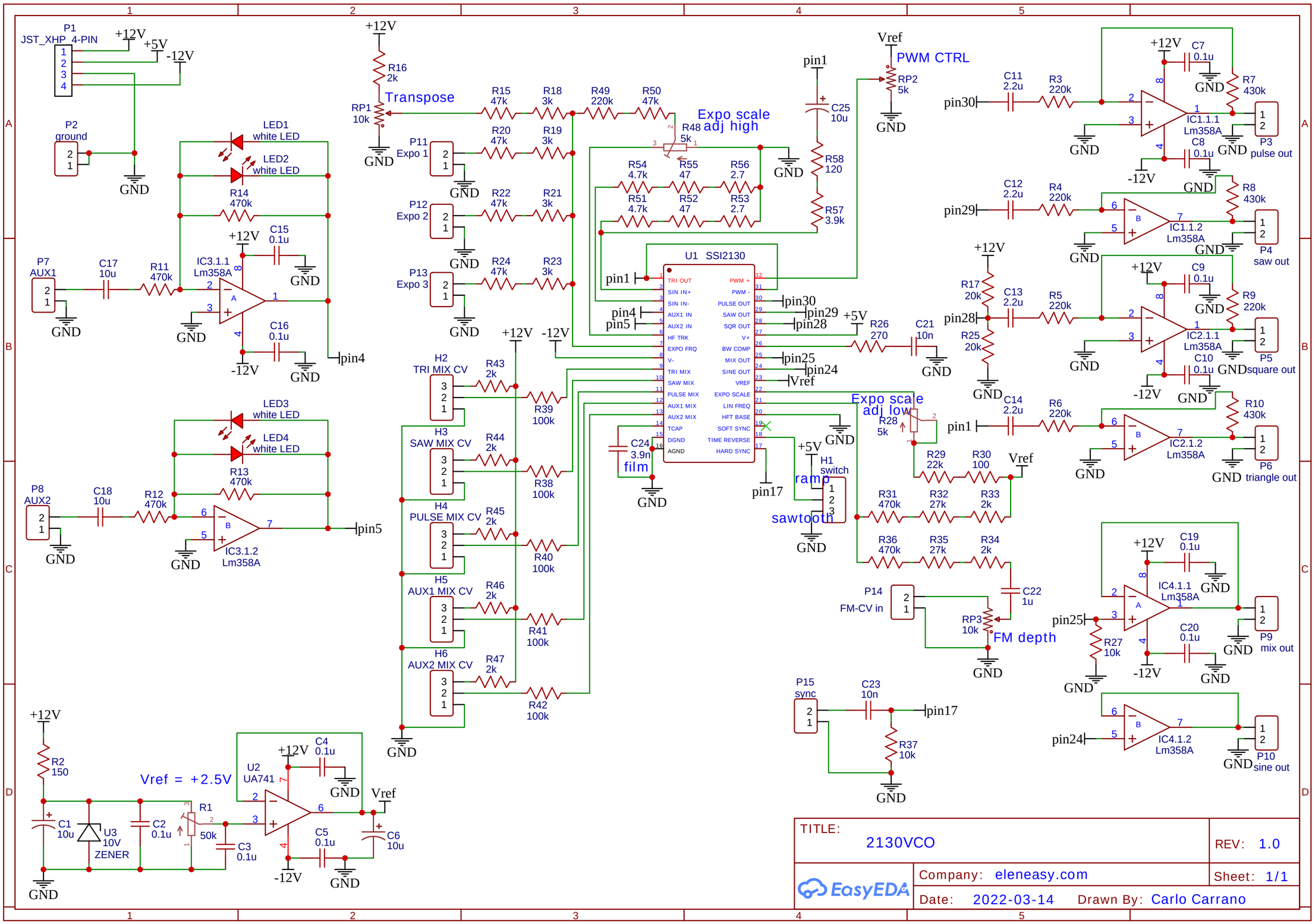
P1
JST_XHP_4-PIN
+12V
+5V
-12V
P2
ground
GND
LED1
white LED
LED2
white LED
R14
470k
P7
AUX1
C17
10u
R11
470k
IC3.1.1
Lm358A
C15
0.1u
C16
0.1u
pin4
LED3
white LED
LED4
white LED
R13
470k
P8
AUX2
C18
10u
R12
470k
IC3.1.2
Lm358A
pin5
R16
2k
RP1
10k
Transpose
R15
47k
R18
3k
R49
220k
R50
47k
P11
Expo 1
R20
47k
R19
3k
P12
Expo 2
R22
47k
R21
3k
P13
Expo 3
R24
47k
R23
3k
Expo scale
adj high
R48
5k
R54
4.7k
R55
47
R56
2.7
R51
4.7k
R52
47
R53
2.7
R58
120
R57
3.9k
C25
10u
Vref
PWM CTRL
RP2
5k
U1 SSI2130
TRI OUT
SIN IN+
SIN IN-
AUX1 IN
AUX2 IN
HF TRK
EXPO FRQ
V-
TRI MIX
SAW MIX
PULSE MIX
AUX1 MIX
AUX2 MIX
TCAP
DGND
AGND
PWM +
PWM -
PULSE OUT
SAW OUT
SQR OUT
V+
BW COMP
MIX OUT
SINE OUT
VREF
EXPO SCALE
LIN FREQ
HFT BASE
SOFT SYNC
TIME REVERSE
HARD SYNC
pin1
pin4
pin5
pin30
pin29
pin28
pin25
pin24
Vref
pin17
H2
TRI MIX CV
R43
2k
R39
100k
H3
SAW MIX CV
R44
2k
R38
100k
H4
PULSE MIX CV
R45
2k
R40
100k
H5
AUX1 MIX CV
R46
2k
R41
100k
H6
AUX2 MIX CV
R47
2k
R42
100k
C24
3.9n
film
+5V
H1
switch
ramp
sawtooth
R26
270
C21
10n
Expo scale
adj low
R28
5k
R29
22k
R30
100
R31
470k
R32
27k
R33
2k
R36
470k
R35
27k
R34
2k
P14
FM-CV in
C22
1u
RP3
10k
FM depth
P15
sync
C23
10n
R37
10k
C11
2.2u
R3
220k
C7
0.1u
R7
430k
IC1.1.1
Lm358A
C8
0.1u
P3
pulse out
C12
2.2u
R4
220k
R8
430k
IC1.1.2
Lm358A
P4
saw out
R17
20k
C13
2.2u
R5
220k
R25
20k
C9
0.1u
R9
220k
IC2.1.1
Lm358A
C10
0.1u
P5
square out
C14
2.2u
R6
220k
R10
430k
IC2.1.2
Lm358A
P6
triangle out
C19
0.1u
IC4.1.1
Lm358A
R27
10k
C20
0.1u
P9
mix out
IC4.1.2
Lm358A
P10
sine out
R2
150
C1
10u
U3
10V
ZENER
C2
0.1u
R1
50k
C3
0.1u
Vref = +2.5V
U2
UA741
C4
0.1u
C5
0.1u
C6
10u
TITLE:
2130VCO
REV: 1.0
Company: eleneasy.com
Sheet: 1/1
Date: 2022-03-14
Drawn By: Carlo Carrano
EasyEDA