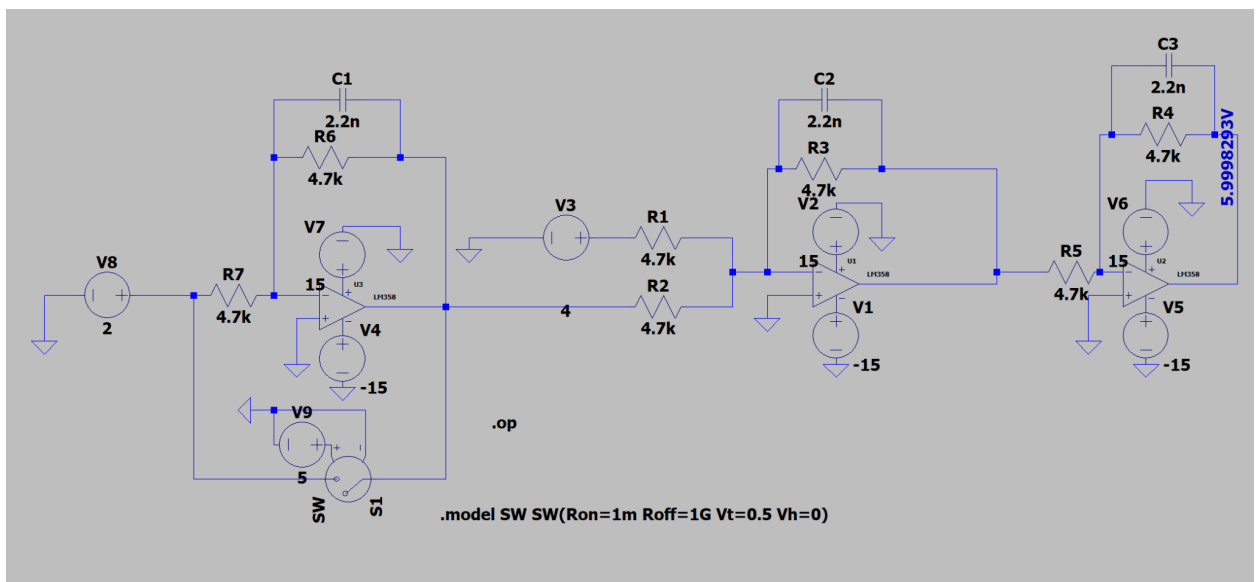# Analog Calculator
LT SPICE CIRCUIT &
SIMULATION

1. ADDER/SUBTRACTOR
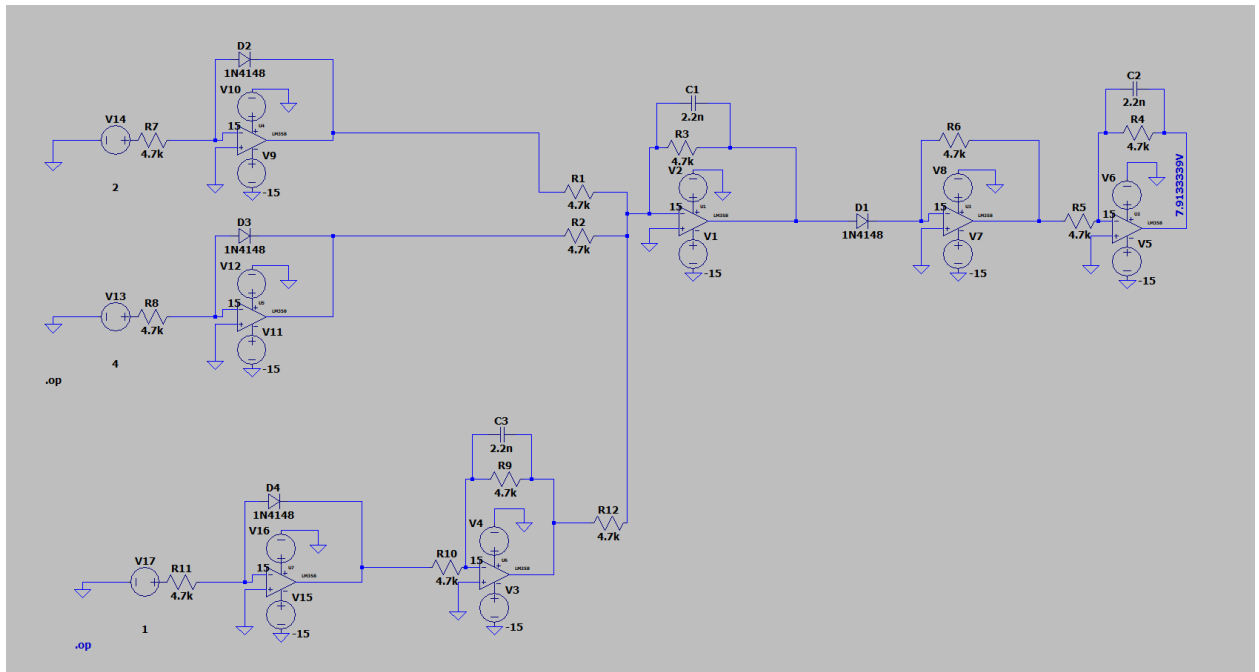

4+2=5.99
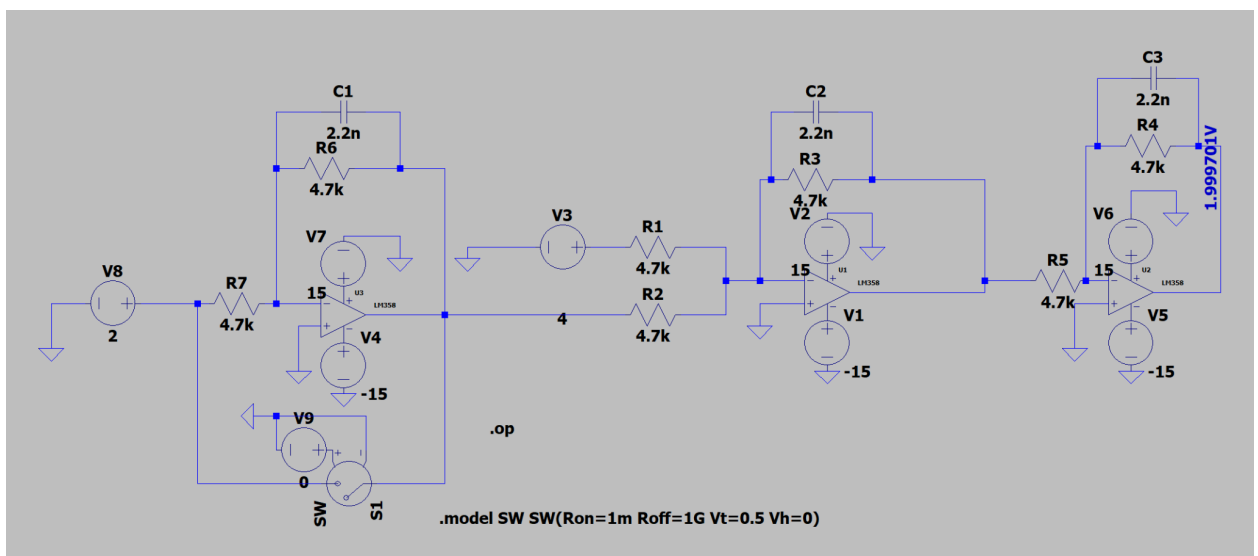
4-2=1.99

2. MULTIPLIER/DIVIDER

2*4=7.91   NOTE 1V IS TAKEN AS REFERENCE
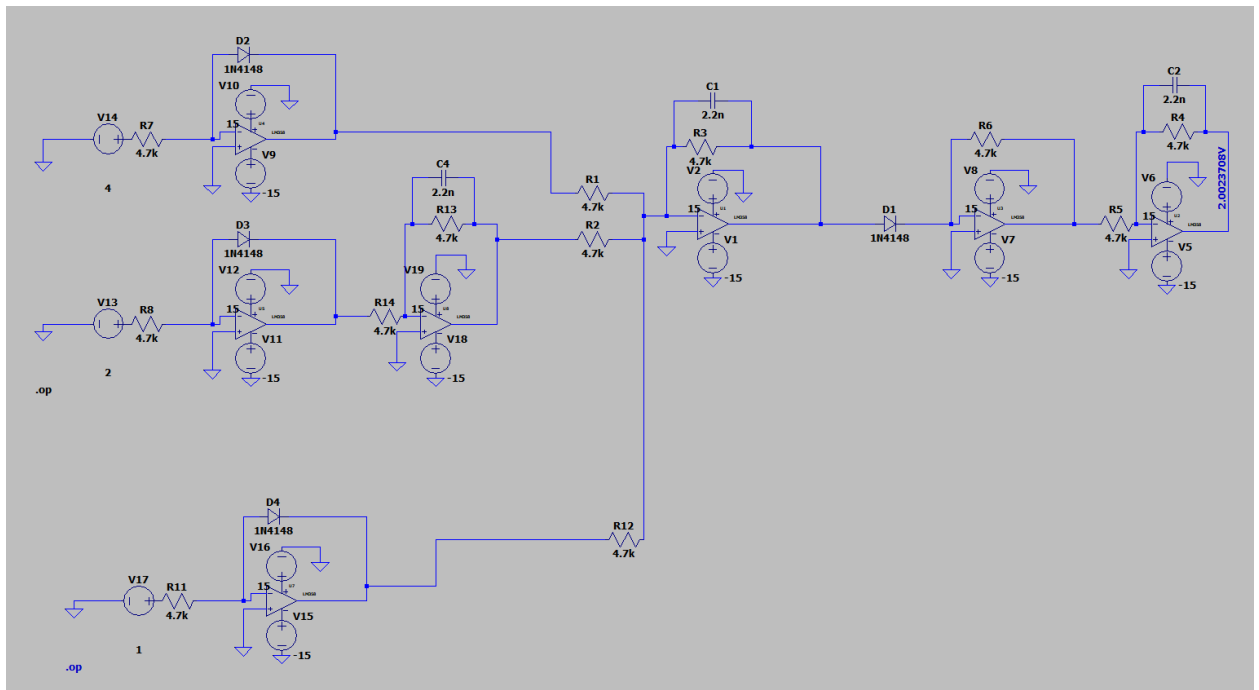
4/2=2 NOTE 1V IS TAKEN AS REFERENCE

3. INTEGRATOR
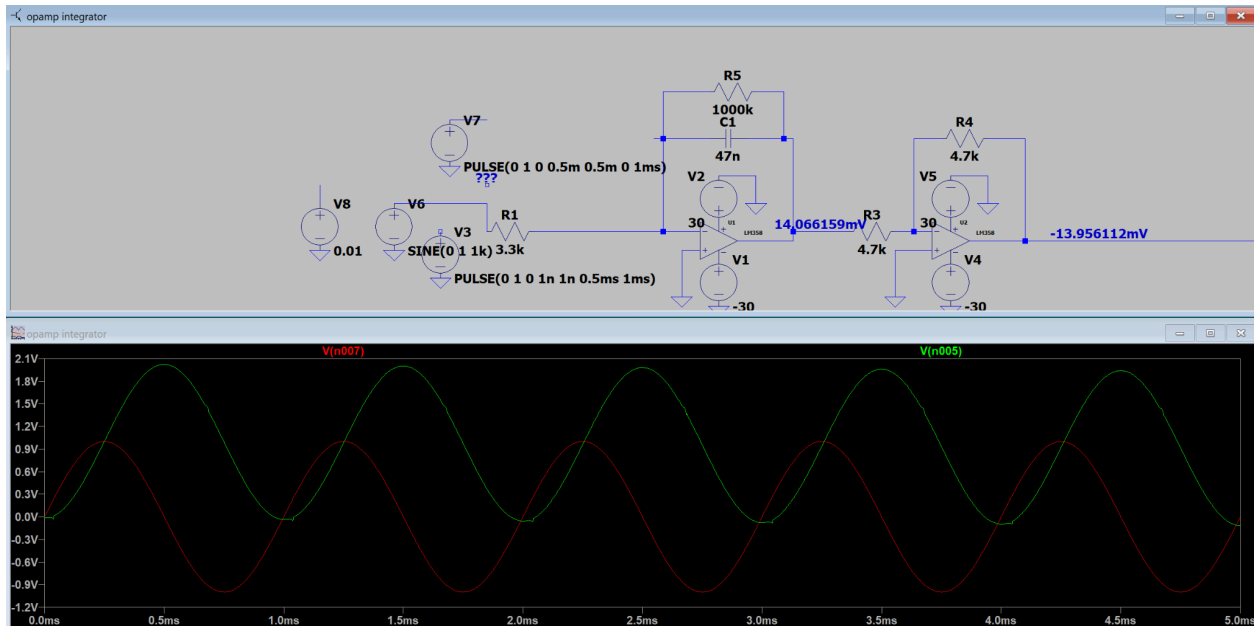
INTEGRATION OF SINX = -COSX
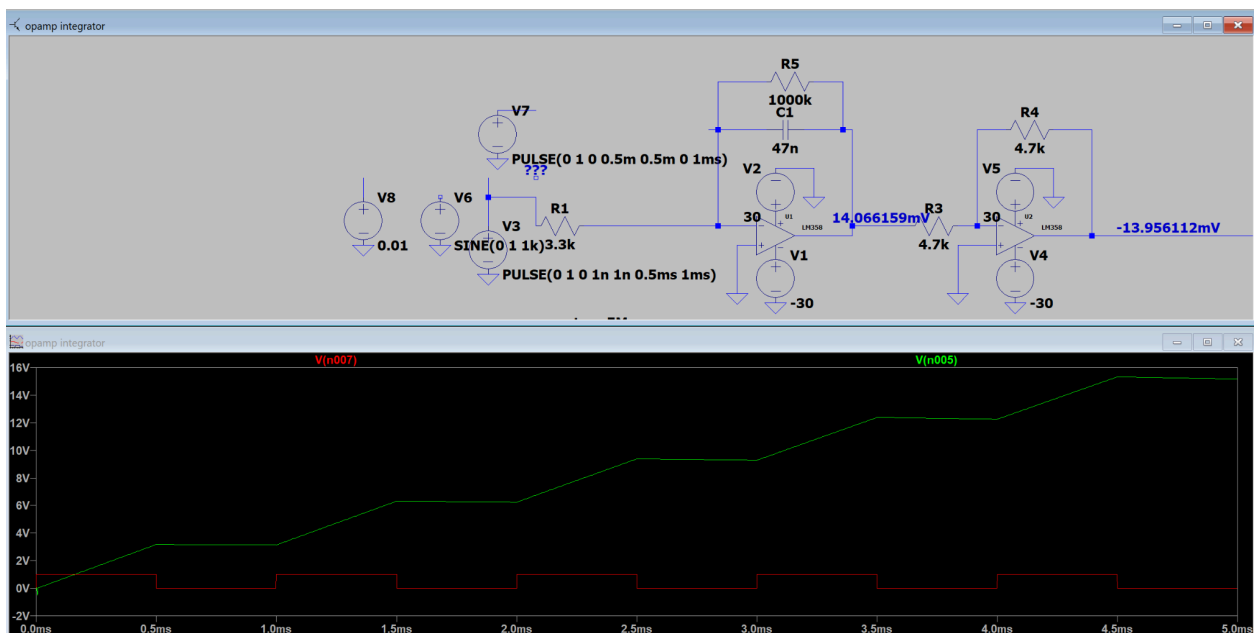
INTEGRATION OF SQUARE WAVE = CONSTANT INCREASE FUNCTION

4. DIFFERENTIATOR
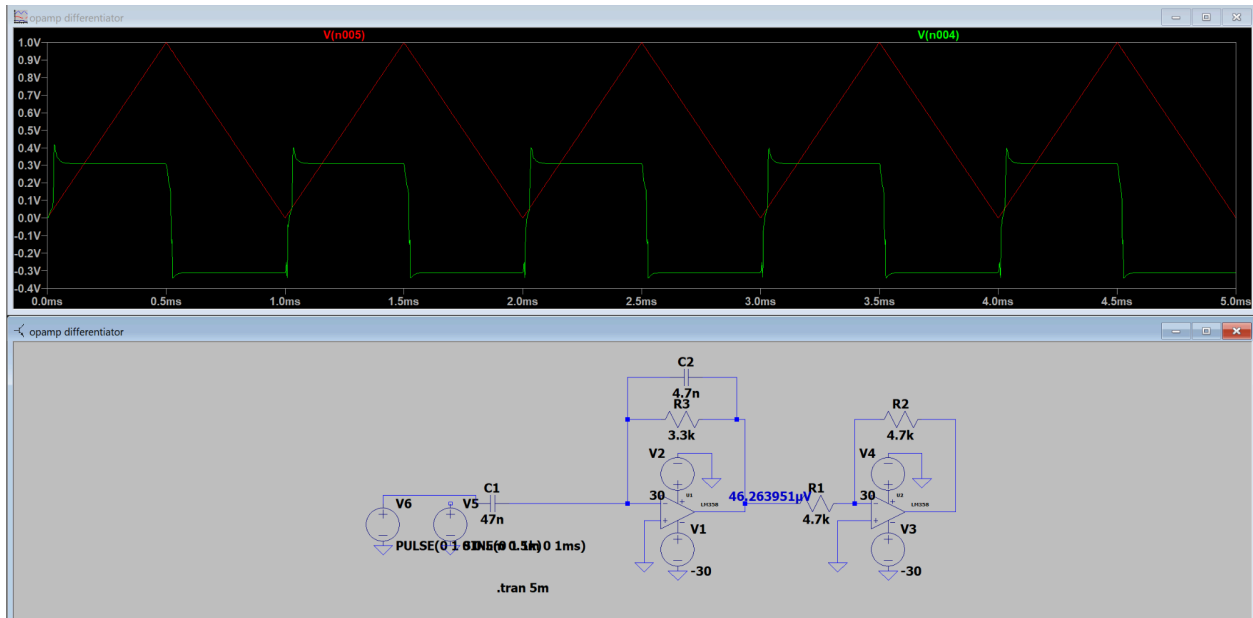
DIFFERENTIATION OF TRIANGLE WAVE = SQUARE WAVE
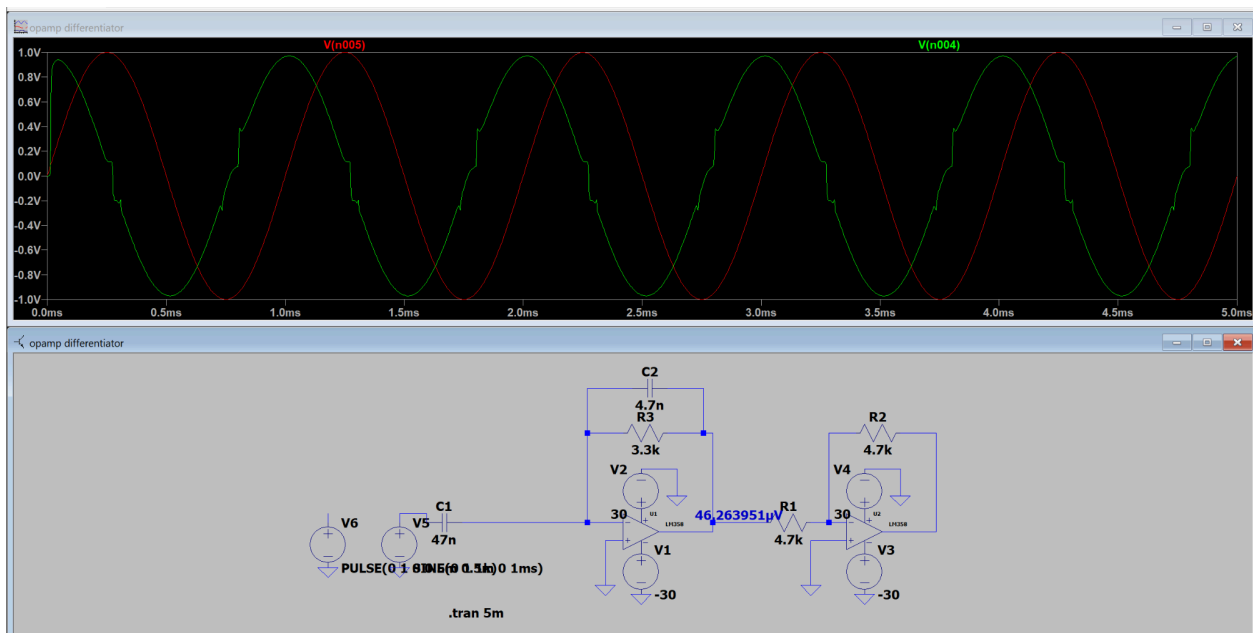
DIFFERENTIATION OF SINX = COSX

5. MODE

MODE OF -4 = 3.99

MODE OF 4 = 3.99

6. LOG

LOG 7 BASE 49 = 2.05   NOTE 1 IS TAKEN AS REFERENCE

7. ANTI LOG

ANTILOG OF 0.69 (LN2) = 2.01

8. ANY ROOT

SQUARE ROOT OF 4 = 2.02

CUBE ROOT OF 27 = 3.1

1. SCHEMATIC DESIGN:

2. FOOTPRINT ASSIGNMENTS:

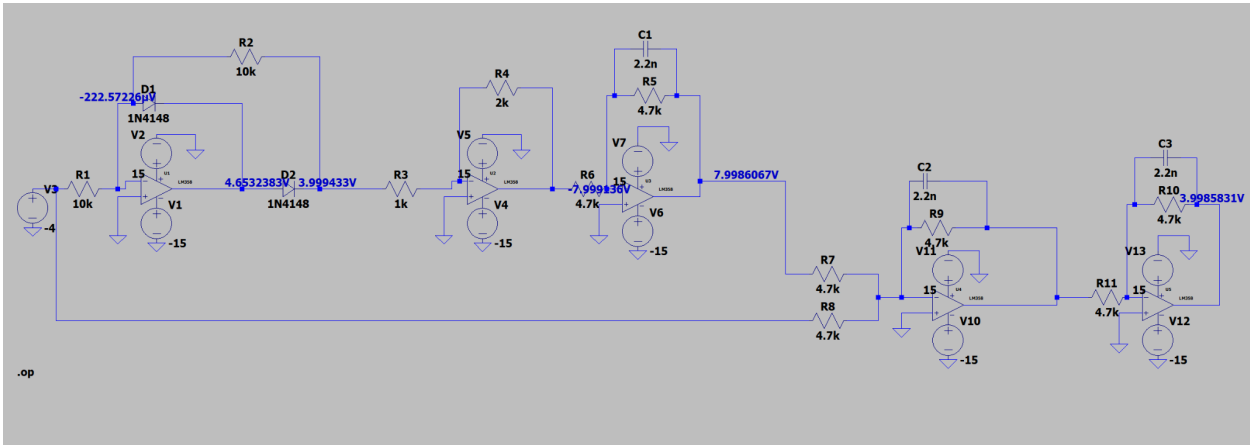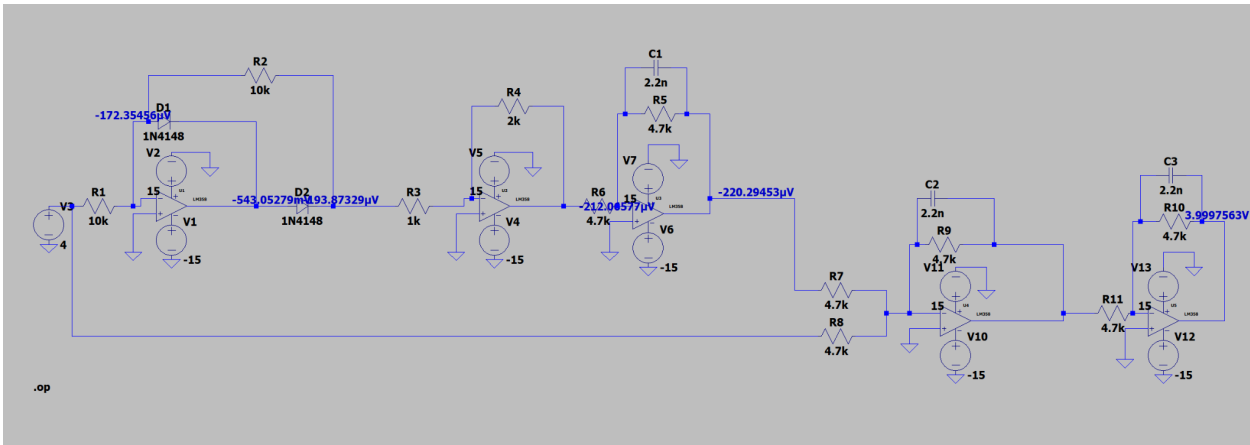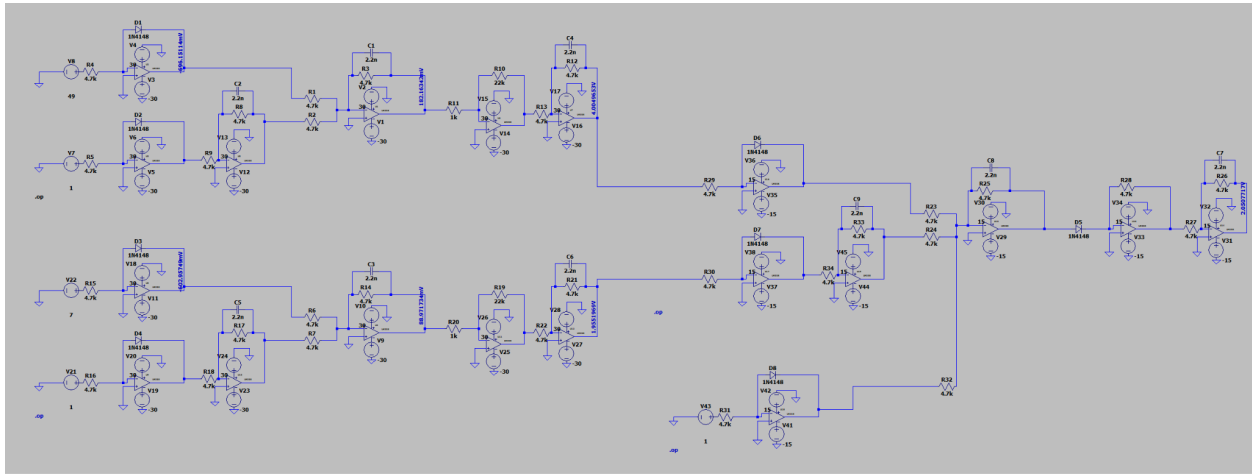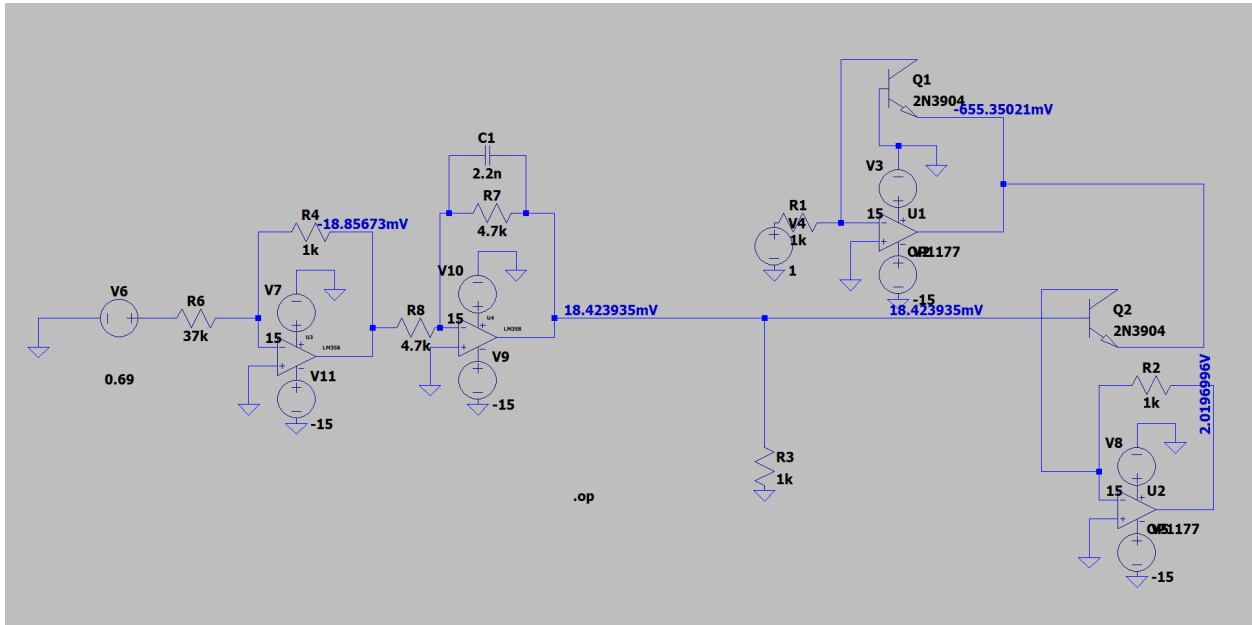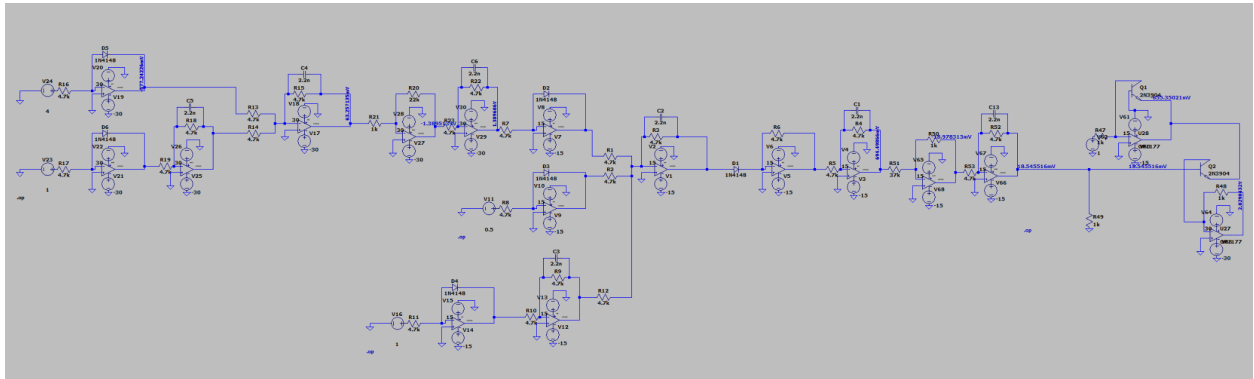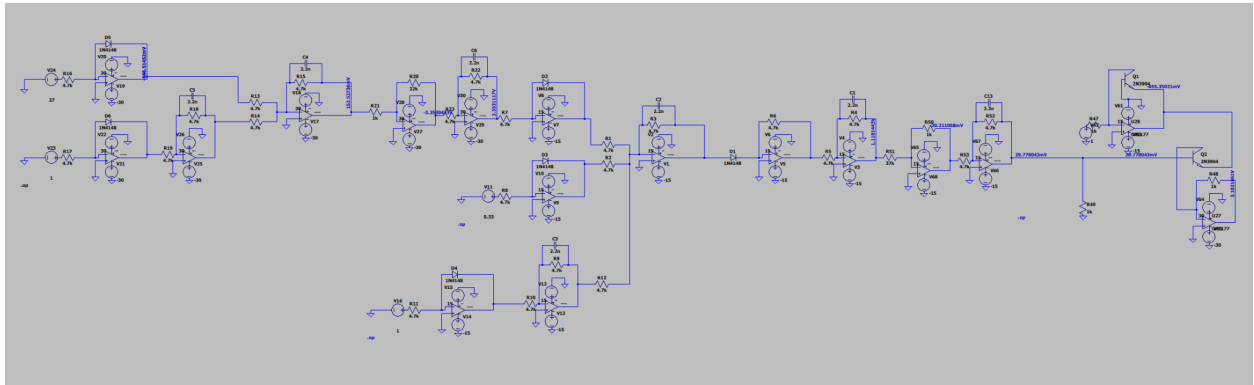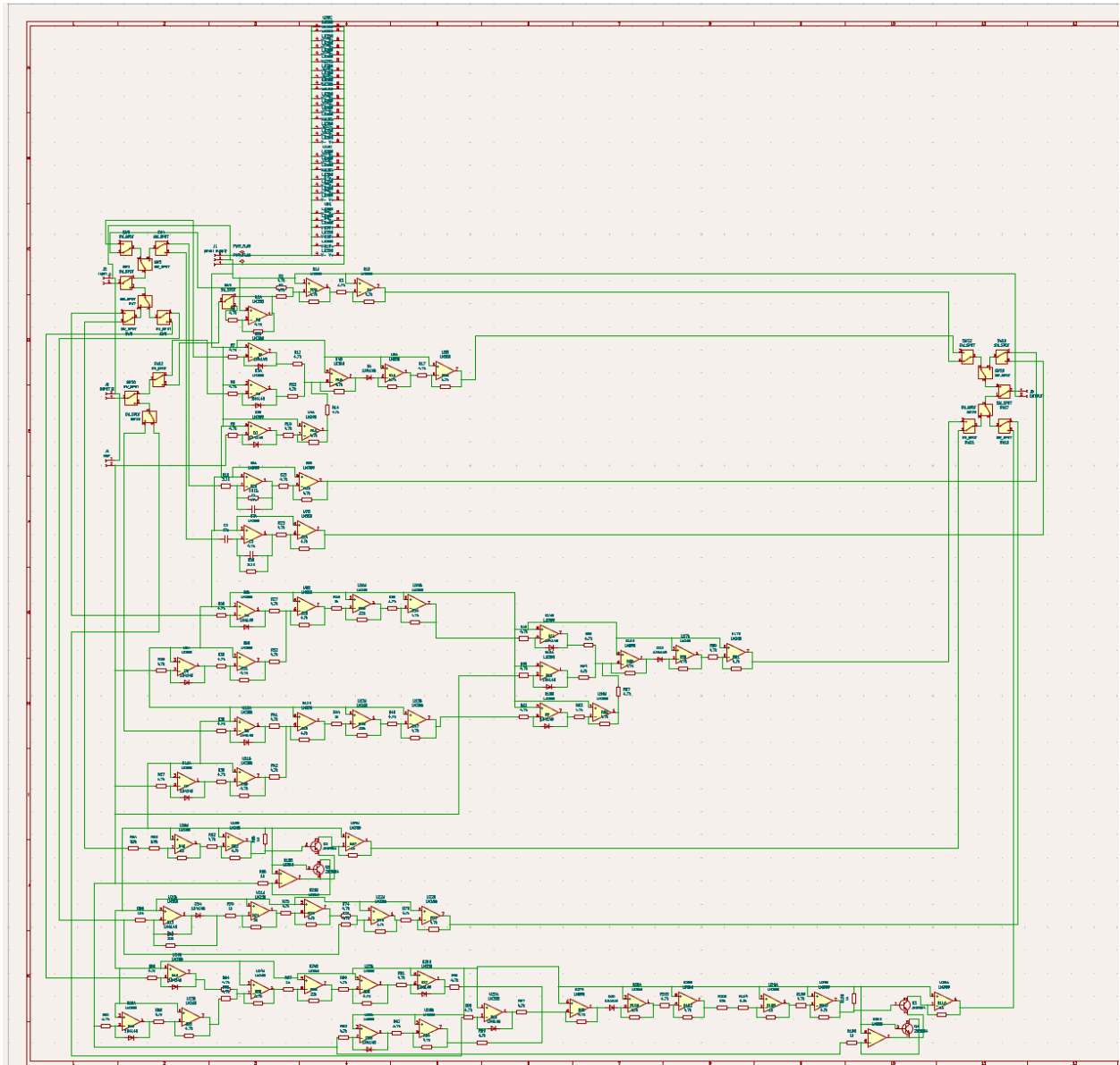|	Symbol : Footprint Assignments		
1	C1 –	47n :	Capacitor_THT:C_Disc_D7.5mm_W5.0mm_P7.50mm
2	C2 –	47n :	Capacitor_THT:C_Disc_D7.5mm_W5.0mm_P7.50mm
3	C3 –	4.7n :	Capacitor_THT:C_Disc_D7.5mm_W5.0mm_P7.50mm
4	D1 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
5	D2 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
6	D3 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
7	D4 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
8	D5 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
9	D6 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
10	D7 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
11	D8 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
12	D9 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
13	D10 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
14	D11 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
15	D12 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
16	D13 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
17	D14 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
18	D15 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
19	D16 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
20	D17 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
21	D18 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
22	D19 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
23	D20 –	1N4148 :	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
24	J1 –	power supply :	Connector_PinSocket_2.54mm:PinSocket_1x03_P2.54mm_Vertical
25	J2 –	input A :	Connector_PinSocket_2.54mm:PinSocket_1x02_P2.54mm_Vertical
26	J3 –	INPUT B :	Connector_PinSocket_2.54mm:PinSocket_1x02_P2.54mm_Vertical
27	J4 –	REF :	Connector_PinSocket_2.54mm:PinSocket_1x02_P2.54mm_Vertical
28	J5 –	OUTPUT :	Connector_PinSocket_2.54mm:PinSocket_1x02_P2.54mm_Vertical
29	Q1 –	2N3904 :	Package_TO_SOT_THT:TO-92_Inline
30	Q2 –	2N3904 :	Package_TO_SOT_THT:TO-92_Inline
31	Q3 –	2N3904 :	Package_TO_SOT_THT:TO-92_Inline
32	Q4 –	2N3904 :	Package_TO_SOT_THT:TO-92_Inline
33	R1 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
34	R2 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
35	R3 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
36	R4 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
37	R5 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
38	R6 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
39	R7 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
40	R8 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
41	R9 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
42	R10 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
43	R11 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
44	R12 –	4.7k :	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder

```
43          R11 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
44          R12 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
45          R13 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
46          R14 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
47          R15 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
48          R16 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
49          R17 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
50          R18 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
51          R19 -            3.3K : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
52          R20 -            1MEG : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
53          R21 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
54          R22 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
55          R23 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
56          R24 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
57          R25 -            3.3K : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
58          R26 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
59          R27 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
60          R28 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
61          R29 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
62          R30 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
63          R31 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
64          R32 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
65          R33 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
66          R34 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
67          R35 -              1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
68          R36 -             22k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
69          R37 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
70          R38 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
71          R39 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
72          R40 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
73          R41 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
74          R42 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
75          R43 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
76          R44 -              1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
77          R45 -             22k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
78          R46 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
79          R47 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
80          R48 -              1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
81          R49 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
82          R50 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
83          R51 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
84          R52 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
85          R53 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
86          R54 -            4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
```

```
 85        R53 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 86        R54 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 87        R55 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 88        R56 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 89        R57 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 90        R58 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 91        R59 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 92        R60 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 93        R61 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 94        R62 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 95        R63 -         3.9k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 96        R64 -          33k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 97        R65 -           1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 98        R66 -           1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
 99        R67 -           1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
100        R68 -          10k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
101        R69 -          10k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
102        R70 -           1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
103        R71 -           2k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
104        R72 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
105        R73 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
106        R74 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
107        R75 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
108        R76 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
109        R77 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
110        R78 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
111        R79 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
112        R80 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
113        R81 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
114        R82 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
115        R83 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
116        R84 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
117        R85 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
118        R86 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
119        R87 -           1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
120        R88 -          22k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
121        R89 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
122        R90 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
123        R91 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
124        R92 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
125        R93 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
126        R94 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
127        R95 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
128        R96 -         4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
```

```
127      R95 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
128      R96 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
129      R97 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
130      R98 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
131      R99 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
132     R100 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
133     R101 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
134     R102 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
135     R103 -            33k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
136     R104 -           3.9k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
137     R105 -             1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
138     R106 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
139     R107 -           4.7k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
140     R108 -             1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
141     R109 -             1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
142     R110 -             1k : Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
143      SW1 -         SW_SPDT : custom_Library_footprint:spdt
144      SW2 -         SW_SPDT : custom_Library_footprint:spdt
145      SW3 -         SW_SPDT : custom_Library_footprint:spdt
146      SW4 -         SW_SPDT : custom_Library_footprint:spdt
147      SW5 -         SW_SPDT : custom_Library_footprint:spdt
148      SW6 -         SW_SPDT : custom_Library_footprint:spdt
149      SW7 -         SW_SPDT : custom_Library_footprint:spdt
150      SW8 -         SW_SPDT : custom_Library_footprint:spdt
151     SW10 -         SW_SPDT : custom_Library_footprint:spdt
152     SW12 -         SW_SPDT : custom_Library_footprint:spdt
153     SW13 -         SW_SPDT : custom_Library_footprint:spdt
154     SW16 -         SW_SPDT : custom_Library_footprint:spdt
155     SW17 -         SW_SPDT : custom_Library_footprint:spdt
156     SW18 -         SW_SPDT : custom_Library_footprint:spdt
157     SW19 -         SW_SPDT : custom_Library_footprint:spdt
158     SW20 -         SW_SPDT : custom_Library_footprint:spdt
159     SW21 -         SW_SPDT : custom_Library_footprint:spdt
160     SW22 -         SW_SPDT : custom_Library_footprint:spdt
161       U1 -          LM358 : Package_DIP:DIP-8_W7.62mm
162       U2 -          LM358 : Package_DIP:DIP-8_W7.62mm
163       U3 -          LM358 : Package_DIP:DIP-8_W7.62mm
164       U4 -          LM358 : Package_DIP:DIP-8_W7.62mm
165       U5 -          LM358 : Package_DIP:DIP-8_W7.62mm
166       U6 -          LM358 : Package_DIP:DIP-8_W7.62mm
167       U7 -          LM358 : Package_DIP:DIP-8_W7.62mm
168       U8 -          LM358 : Package_DIP:DIP-8_W7.62mm
169       U9 -          LM358 : Package_DIP:DIP-8_W7.62mm
170      U10 -          LM358 : Package_DIP:DIP-8_W7.62mm
171      U11 -          LM358 : Package_DIP:DIP-8_W7.62mm
172      U12 -          LM358 : Package_DIP:DIP-8_W7.62mm
173      U13 -          LM358 : Package_DIP:DIP-8_W7.62mm
174      U14 -          LM358 : Package_DIP:DIP-8_W7.62mm
175      U15 -          LM358 : Package_DIP:DIP-8_W7.62mm
176      U16 -          LM358 : Package_DIP:DIP-8_W7.62mm
177      U17 -          LM358 : Package_DIP:DIP-8_W7.62mm
178      U18 -          LM358 : Package_DIP:DIP-8_W7.62mm
179      U19 -          LM358 : Package_DIP:DIP-8_W7.62mm
180      U20 -          LM358 : Package_DIP:DIP-8_W7.62mm
181      U21 -          LM358 : Package_DIP:DIP-8_W7.62mm
182      U22 -          LM358 : Package_DIP:DIP-8_W7.62mm
183      U23 -          LM358 : Package_DIP:DIP-8_W7.62mm
184      U24 -          LM358 : Package_DIP:DIP-8_W7.62mm
185      U25 -          LM358 : Package_DIP:DIP-8_W7.62mm
186      U26 -          LM358 : Package_DIP:DIP-8_W7.62mm
187      U27 -          LM358 : Package_DIP:DIP-8_W7.62mm
188      U28 -          LM358 : Package_DIP:DIP-8_W7.62mm
189      U29 -          LM358 : Package_DIP:DIP-8_W7.62mm
190      U30 -          LM358 : Package_DIP:DIP-8_W7.62mm
```

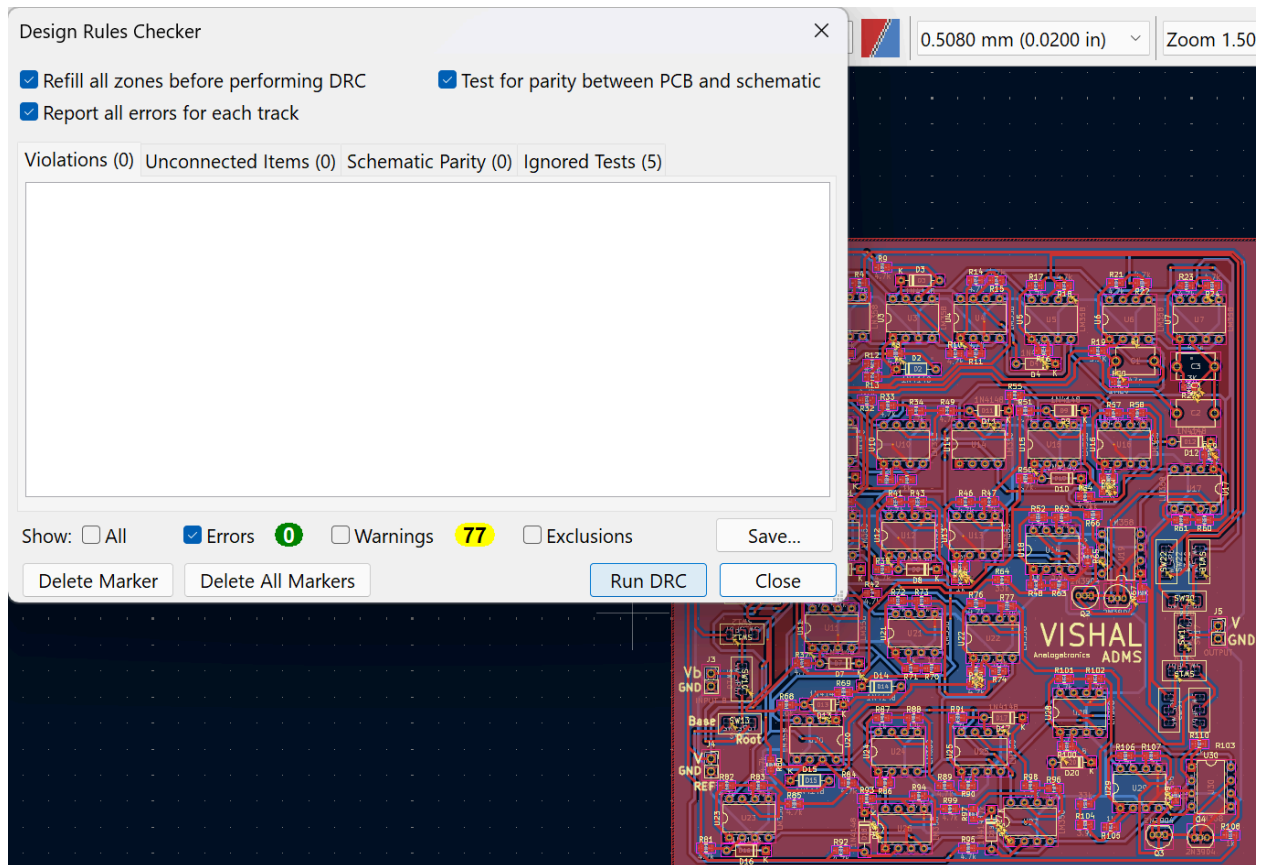# 3. Electrical Rules Checker
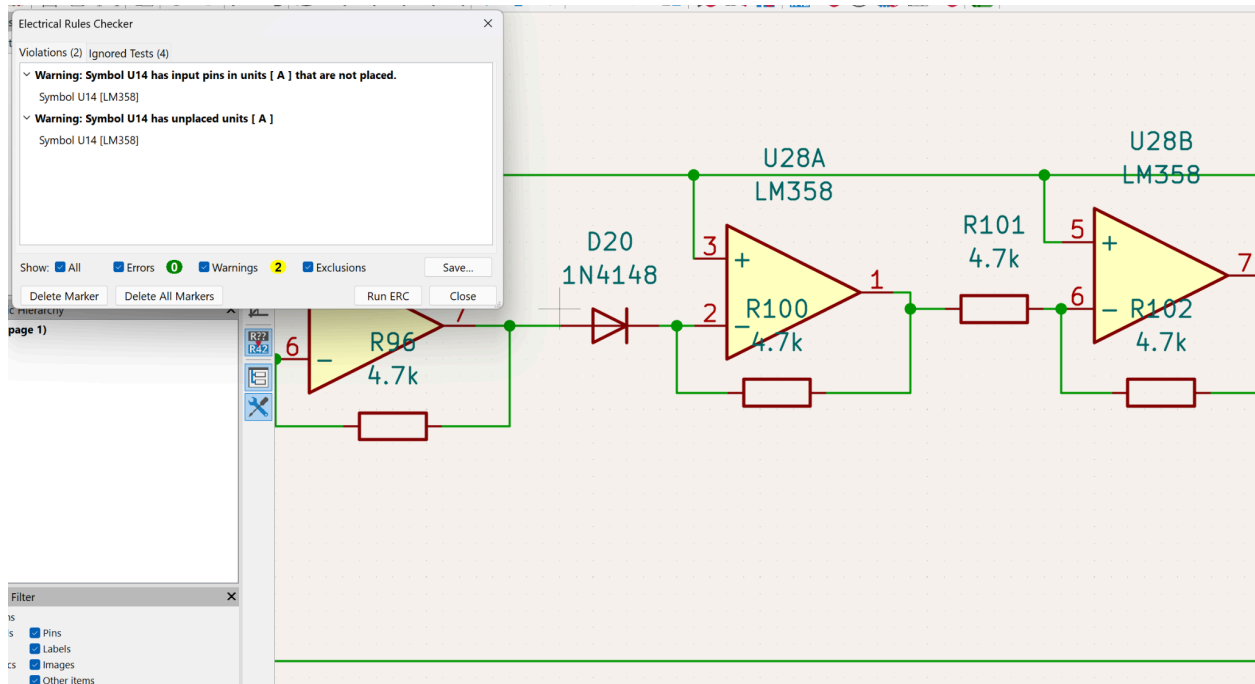
Note: The warning is due to an unplaced component; it is not an error as the number of opamps used is odd, and I have used dual opamp IC LM358, so one opamp is left unused.
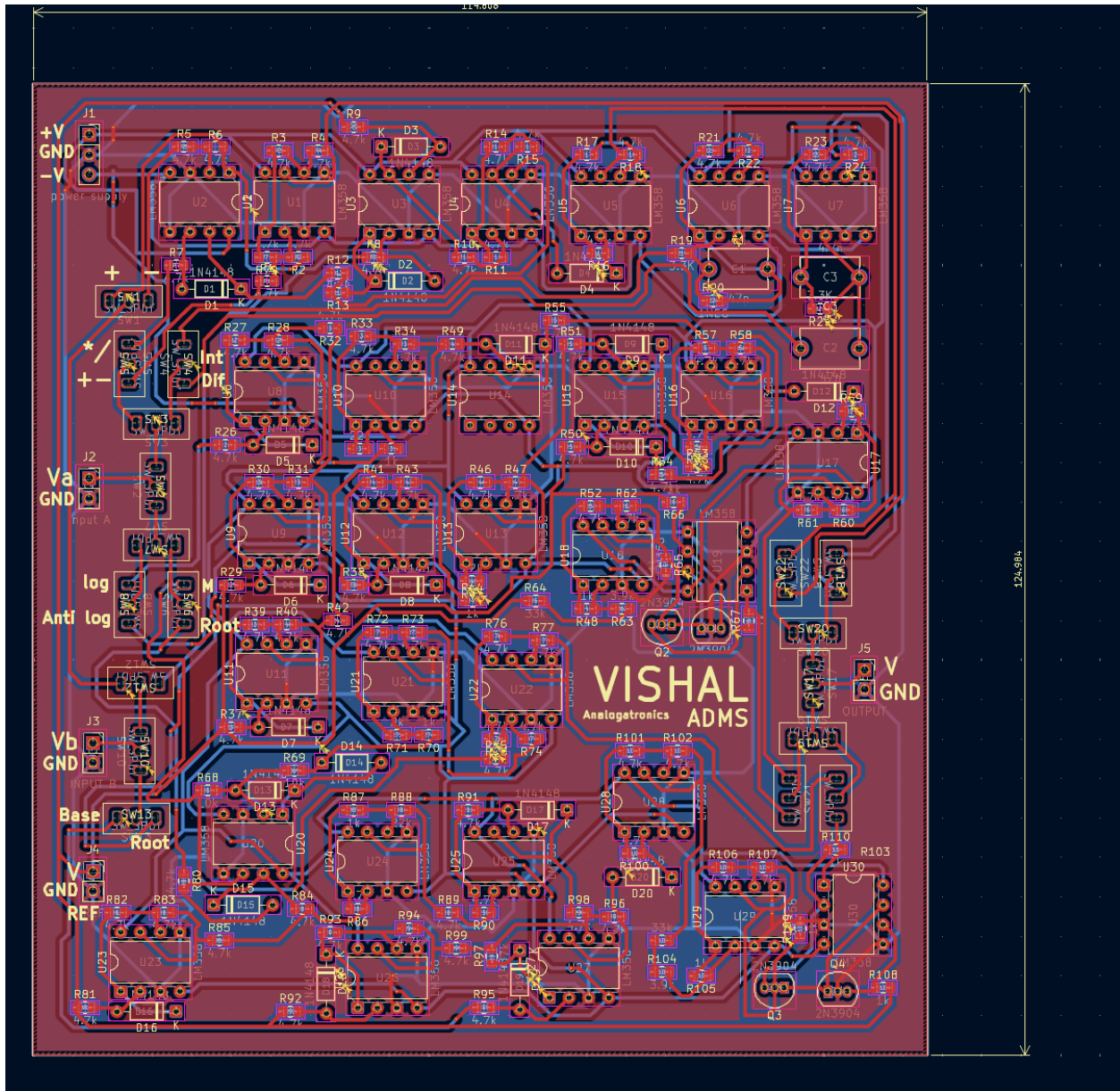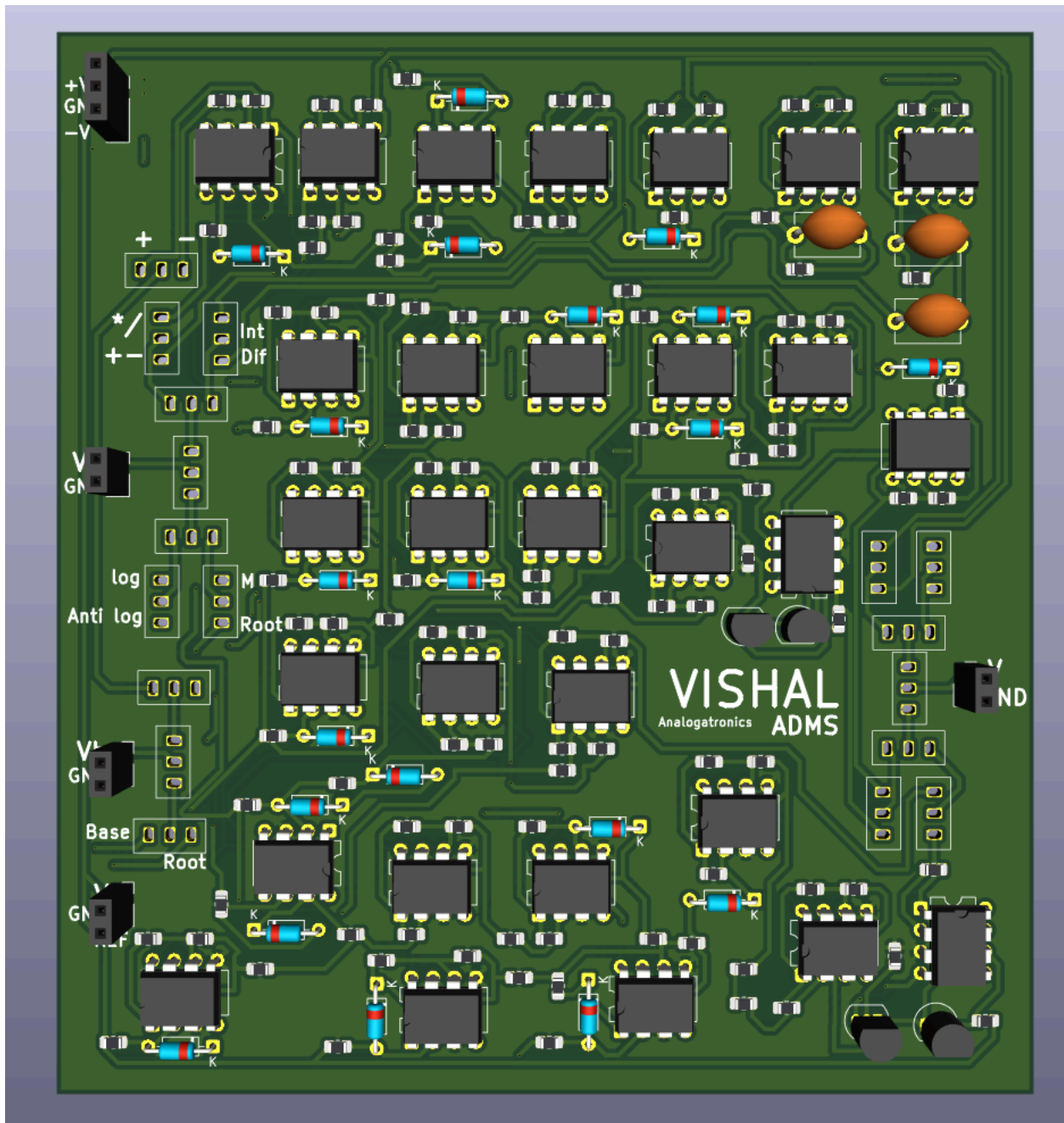
4. Layout Screenshot
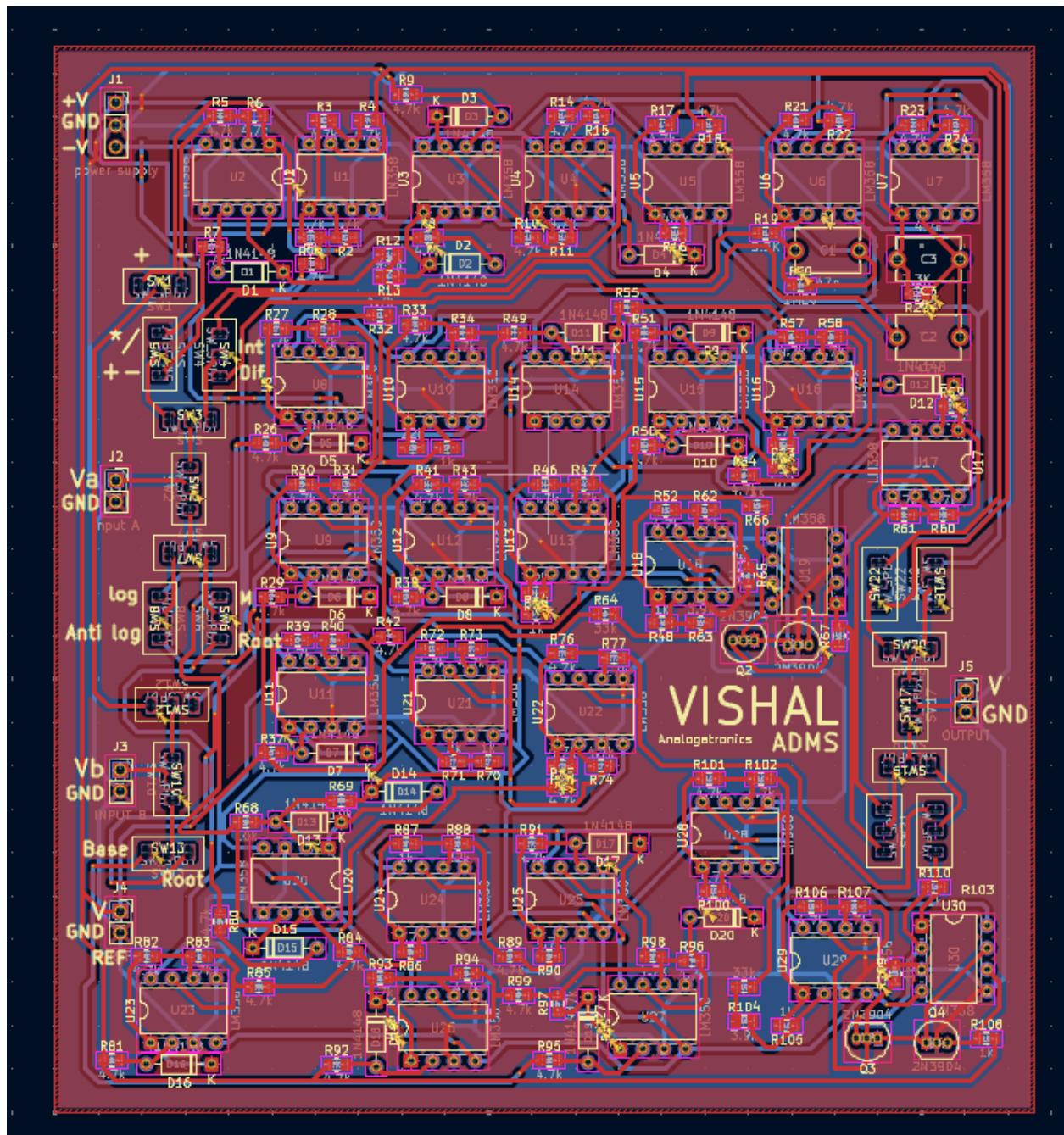
5. DRC report list

6. The size of layout 11.5CM*12.5CM

7. Screenshot of 3D rendering of designed PCB

8. Screenshot of the list of the Generate Gerber Files (including drill files)

Name	Type	Compressed size	Password ...	Size	Ratio	Date modified
analog calc-B_Mask.gbr	GBR File	3 KB	No	15 KB	80%	02-11-2025 18:42
analog calc-B_Paste.gbr	GBR File	1 KB	No	1 KB	32%	02-11-2025 18:42
analog calc-B_SilkS.gbr	GBR File	1 KB	No	1 KB	32%	02-11-2025 18:42
analog calc-Back.gbr	GBR File	161 KB	No	675 KB	77%	02-11-2025 18:42
analog calc-Edge_Cuts.gbr	GBR File	1 KB	No	1 KB	42%	02-11-2025 18:42
analog calc-F_Mask.gbr	GBR File	5 KB	No	23 KB	81%	02-11-2025 18:42
analog calc-F_Paste.gbr	GBR File	3 KB	No	10 KB	78%	02-11-2025 18:42
analog calc-F_SilkS.gbr	GBR File	63 KB	No	418 KB	86%	02-11-2025 18:42
analog calc-Front.gbr	GBR File	199 KB	No	793 KB	75%	02-11-2025 18:42
analog calc-NPTH.drl	DRL File	1 KB	No	1 KB	24%	02-11-2025 18:42
analog calc-PTH.drl	DRL File	3 KB	No	11 KB	74%	02-11-2025 18:42

9. Screenshot of the zip Gerber file uploaded on lioncircuits.com showing the price in INR
for their standard 5 PCB service

Price : ₹2432

vishal_adms_gerber files

Project Name can include alphanumeric, '-' and '_' only

File Format : Zip
Size Limit : 50MB or less
Sample File Download

Your File Is Secure And Confidential.

Enter Project Description

vishal_adms_gerber files.zip

Reset

Base Material	FR4
Layers	2 4 6 8 10 12 14 18 20 22
Dimensions	115 x 125 mm
Quantity	5

Discrete Design	1 2 3 4 5
Delivery Format	Single PCB Panel By Customer Panel By LionCircuits
PCB Thickness (mm)	0 4 0 8 1 2 1 6 2 0 2 4

Charge Details

Make In India

Price Estimate

Per Unit Cost	₹412.20 × 5
NRE Cost	₹0
Sub Total	₹2061

Build Time

● 5-6 Days   ○ 4-5 Days

Shipping Method

● DTDC Standard   ○ DTDC Plus
2-3 Working Days   1-2 Working Days

New Sub Total	₹2061
GST	₹371
Shipping Cost	₹0
Total Cost	₹2432

Save to Cart

LION CIRCUITS   Search MPN # or by Keyword   Services   Capabilities   Resources   Instant Quote | Shop Components   Login   Sign Up