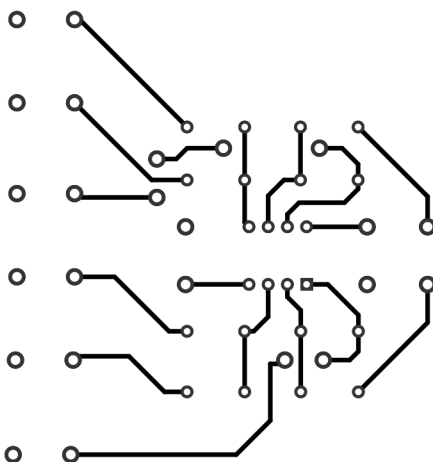
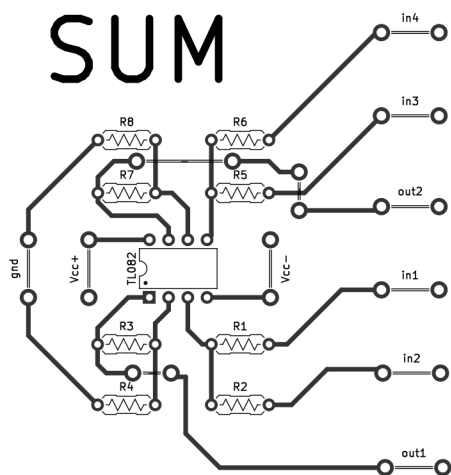


SUM



Summation Paper Circuit

Sums two signals' voltage.

$$V_{out} = V_1 + V_2$$

Recommended values:

R#: 10kΩ

Vcc+: +12V

Vcc-: -12V

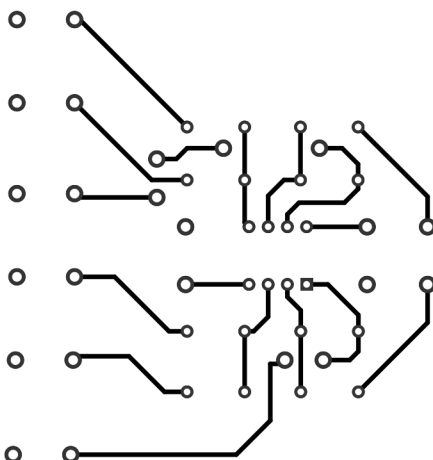
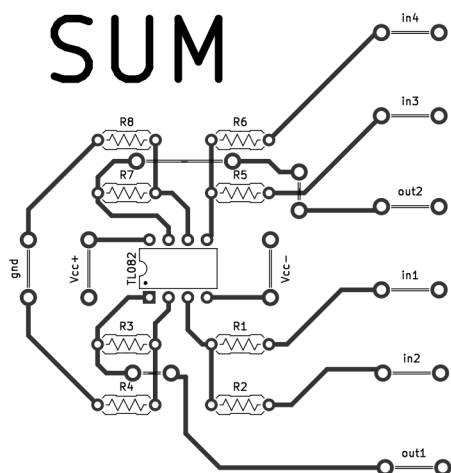
Try to use low tolerances.

TL082 max voltage output is:

$$\pm[|supply| - 2]V$$

Using ±12V supply means ±10V out.

SUM



Differential Paper Circuit

Takes the difference of two signals' voltage.

$$V_{out} = V_1 - V_2$$

Recommended values:

R#: 10kΩ

Vcc+: +12V

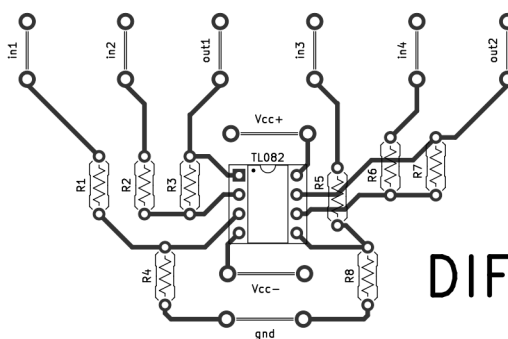
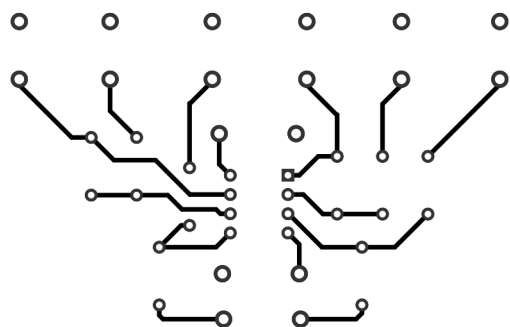
Vcc-: -12V

Try to use low tolerances.

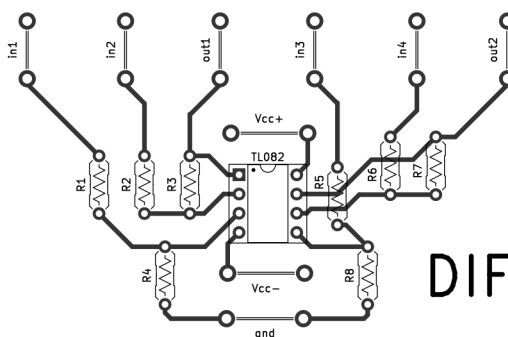
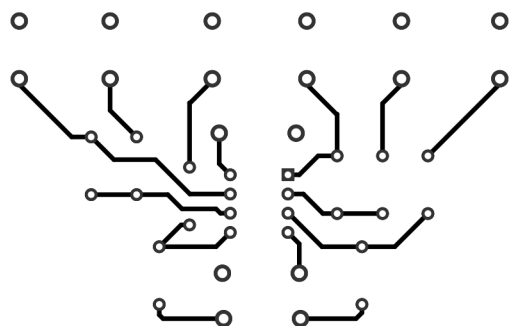
TL082 max voltage output is:

$$\pm[|supply| - 2]V$$

Using ±12V supply means ±10V out.



DIFF



DIFF