

SIMPLECIRCUITBOARDS.COM

Voltage Amplifier Board



This circuit board will take millivolt input and amplify it to a higher voltage that is based on 2 resistors that you mount on the board. These 2 resistors are used to set the GAIN of the amplifier. This GAIN can be calculated with the following equation: $GAIN = 1 + (R2 / R1)$. For instance if you are measuring voltages in the millivolt range and would like to multiply them by 10 (a GAIN of 10) then you would use a 450 ohm resistor for R2 and a 50 ohm resistor for R1... $1 + (450 / 50) = 10$. Now if you had an input voltage of 100 mV, you would read 1000 mV (or 1V) at the output.

Miscellaneous Information:

Specifications:

- Supply Voltage: 9 - 16 VDC
- Number of Outputs: 1
- Output Gain: Dependent upon R1 and R2 Values
- Board Dimensions: 1.8 x 3 inches

Disclaimer:

These boards are designed for educational use only. In no circumstances should these circuit boards be used in critical situations where failure could mean injury or property damage.

For more information, contact us at:

Info@SimpleCircuitBoards.com