

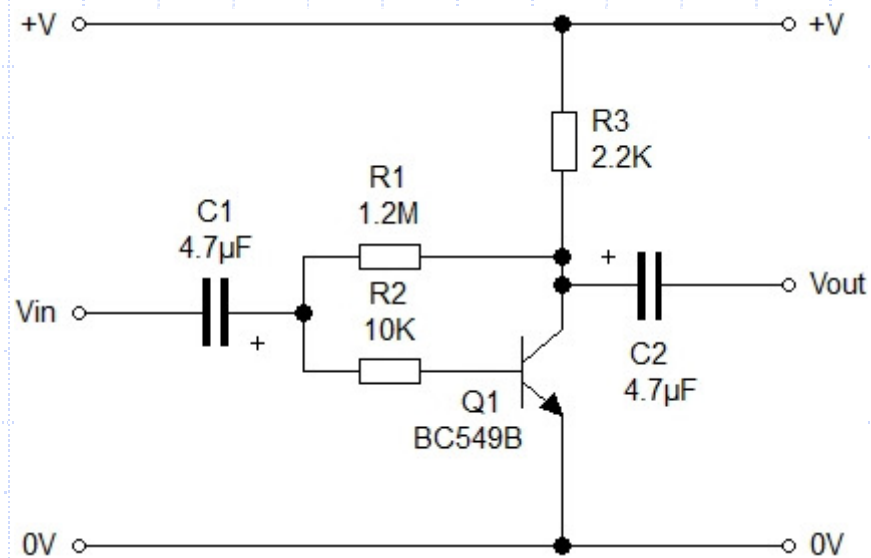
# AC AMPLIFIER BLOK

## PCB ASSEMBLY INSTRUCTIONS



# Circuit Details

The circuit is shown below with a parts list of components.  
Check through this list and identify each component.

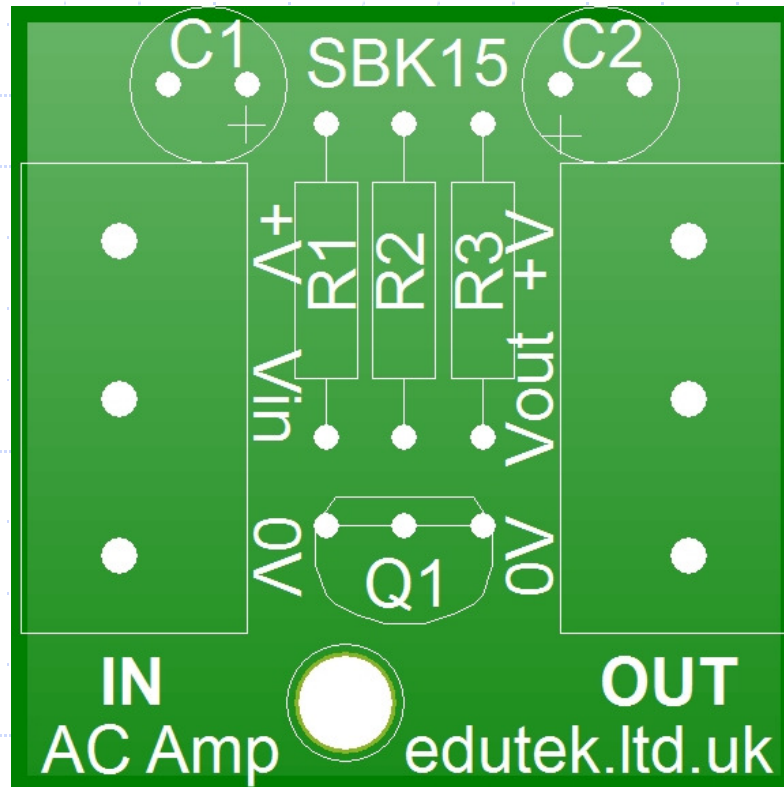


Label	Component Name	No.
R1	1.2MΩ resistor	1
R2	10KΩ resistor	1
R3	2.2KΩ resistor	1
C1,2	4.7uF electrolytic capacitor	2
Q1	BC549 transistor	1
Miscellaneous		No.
	3 way PCB terminal block	2

# ASSEMBLY

Below is the PCB with no components.

The markings show the number and outline of each component.

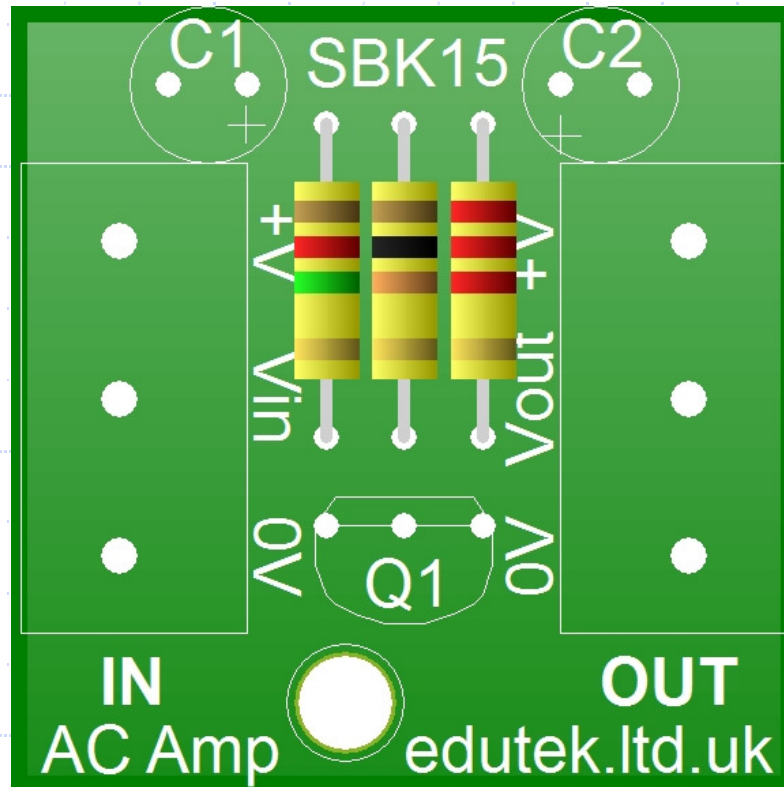


Before starting, check through the following:

- Ensure you have safety goggles and adequate ventilation.
- Use a soldering iron stand with a damp sponge to clean the iron tip regularly.
- Use some small Wire-cutters to remove excess wire and have some snipe -nose pliers.

# Resistors

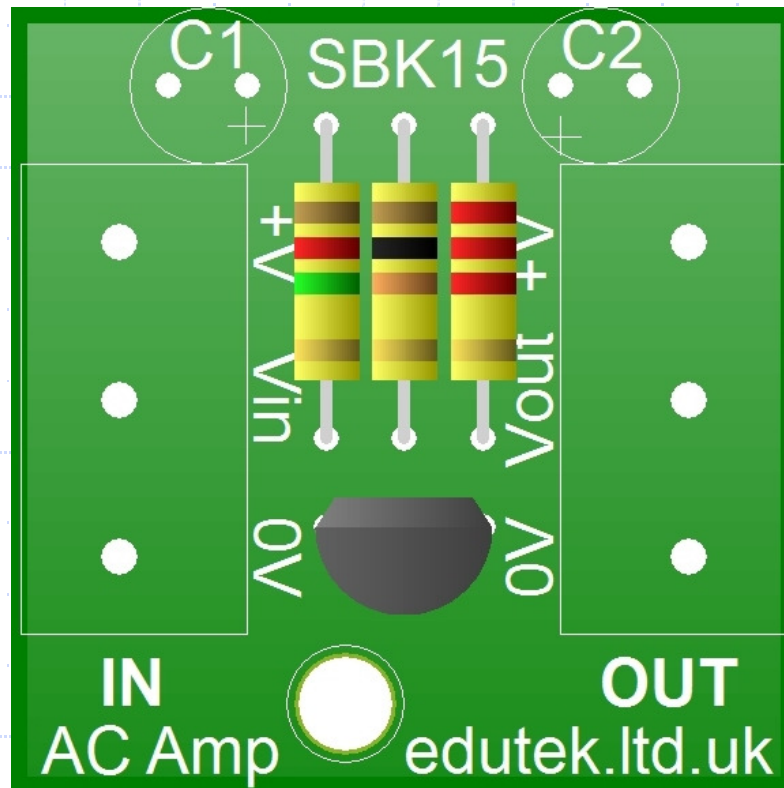
There are 2 resistors. They must be inserted in the correct place but can be inserted either way round. Bend the legs near to the resistor body at 90 degrees to ease fitting into the PCB.



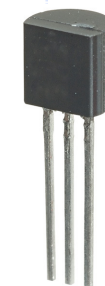
- R1 = 1.2M $\Omega$ , (Brown, red, green, gold)
- R2 = 10K $\Omega$ , (Brown, black, orange, gold)
- R3 = 2.2K $\Omega$ , (Red, red, red, gold)

# Transistor

There is one NPN transistor, Q1 = BC549. The legs should already be bent to shape. It must be inserted with the flat face upwards as shown.



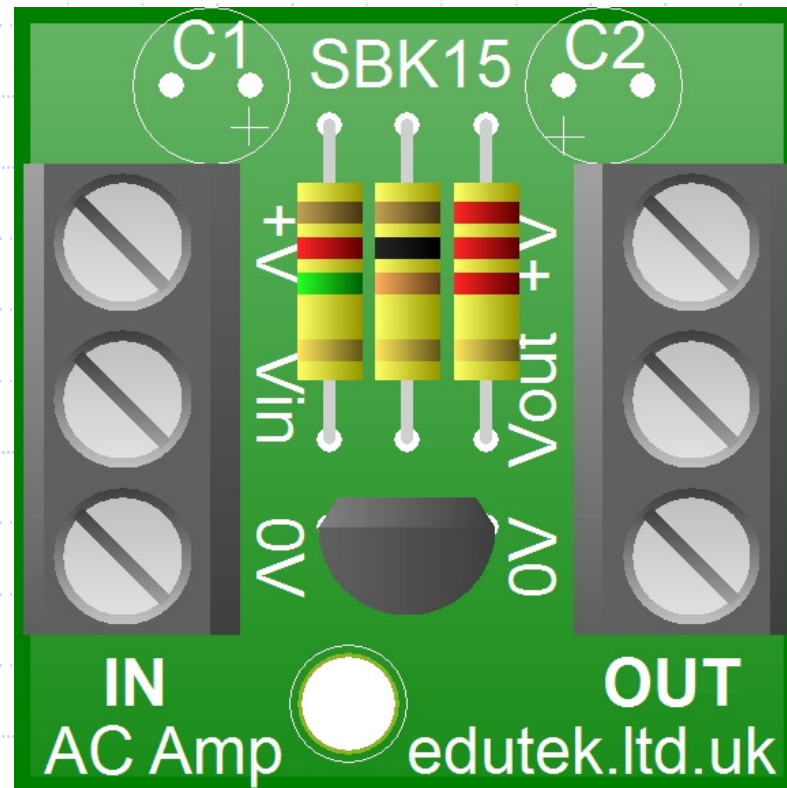
If the legs of the transistor are close together, bend the legs outwards slightly before inserting into the PCB.





# Terminal Connector Blocks

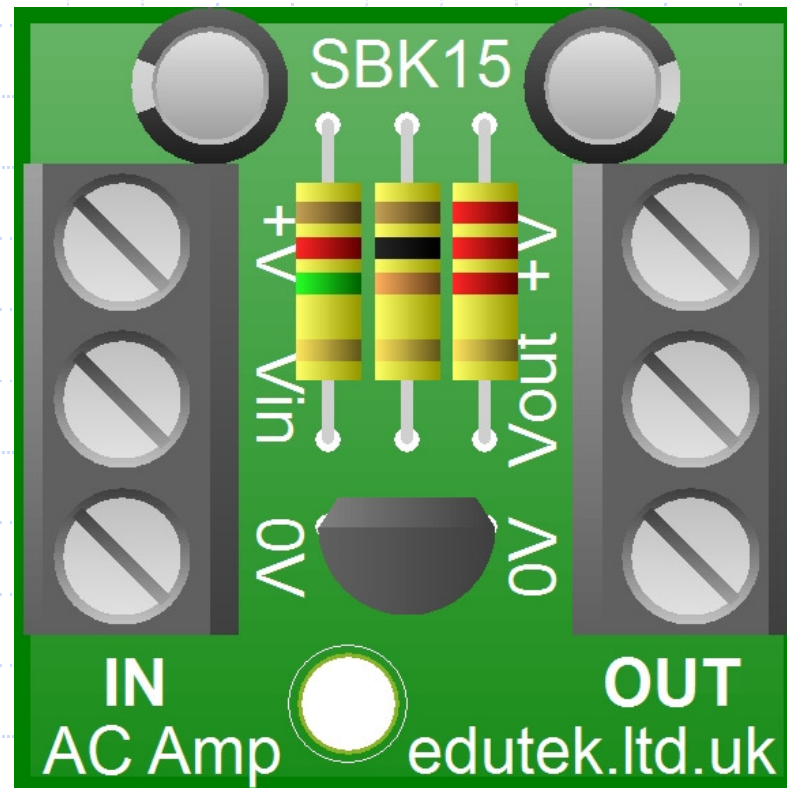
There are two 3-way terminal blocks that fit at either end of the PCB.  
Ensure the openings are facing outwards.



# Capacitors

There are 2 polarised capacitors, C1 and C2.

They have polarity and MUST be inserted the correct way round with the longer wire inserted into the hole marked “+”.



C1,2 = 4.7µF elec.

There are 2 ways to identify the polarity of an electrolytic capacitor:

- The positive connection is the longest wire.
- The negative connection has a silver stripe above it on the casing of the capacitor.