

THE FIXED RESISTOR - REVISION CARDS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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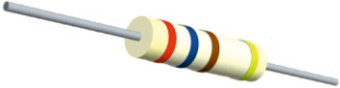
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THE FIXED RESISTOR

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FIXED RESISTORS




Resistors regulate the flow of current in an electrical circuit. Resistors are found in almost every electronic circuit. They are used to protect sensitive components, such as transistors and LEDs (see diagram below).



The most common type of resistor consists of a small ceramic (clay) tube covered partially by a conducting carbon film.

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FIXED RESISTORS - VALUES



When a resistor has a high value, the flow of current through it is small.

When a resistor has a low value, the flow of current through it is large.

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The value of a resistor is measured in ohms. Ω ohms symbol

R = value up to 100 ohms
e.g. 50 ohms = 50R

K = value up to 1000 ohms and over
e.g. 10 000 ohms = 10K

M = value of 1000 000 ohms and over
e.g. 1000 000 ohms = 1M

1. What is the function of a fixed resistor?

3 marks

2. Complete the following sentences by adding the missing words.

When a resistor has a _____ value, the flow of current through it is small.

3 marks

When a resistor has a low value, the flow of _____ through it is _____.

3. Draw / write the symbol for 'ohm'.

1 mark