

## Resistors

Resistors are used in electronics to control the flow of c..... Current is the amount of electricity in a c..... and if there is too much then a circuit may be destroyed or badly damaged. Resistance is measured in o..... and the symbol used is  $\Omega$ . We need a way of identifying how many ohms a resistor is and to do this coloured bands are used around the body of the r..... Ten colours are used and each one represents a different number. Three bands are used, each band represents a different part of the value. There is fourth g..... band and that is used for t..... which is how much under and over the calculated value it can be.

Number	Colour
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

- 1<sup>st</sup> band – first number
- 2<sup>nd</sup> band – second number
- 3<sup>rd</sup> band – number of zeros

### Example

What is the value of a resistor with yellow violet and red bands?

First band is yellow so the first number is 4  
Second band is violet so the second number is 7  
The third band is red so there are 2 zeros

Put them together.....  $4700\Omega$

Now work out the values of the resistors you have been given using the colour bands around them, answers below.