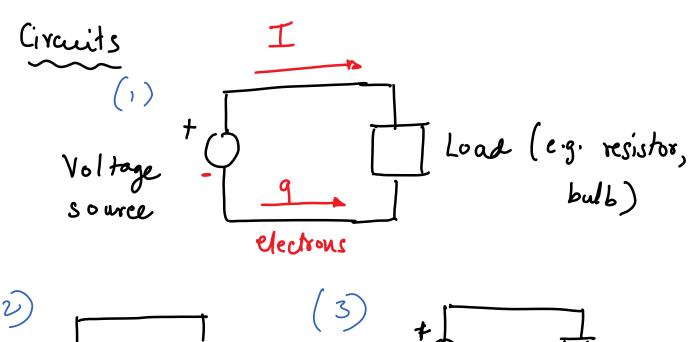
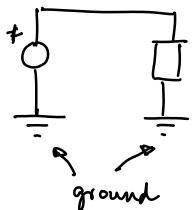
2.1 Introduction

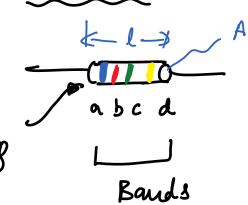


ground (1), (2), (3) Equivalent



2.2 Basic electric elements

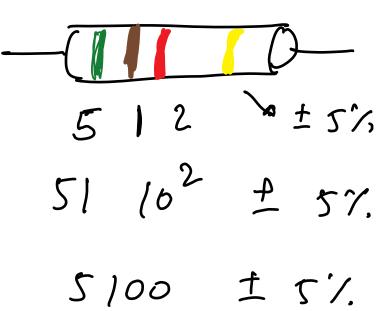
1.) Resistor



R (resistance)

A= (ross-section

tol band (d 8) ack Brown Gold ±5%. Red Silver ± 10% Orange 3 Nothing + 20%. Yellow 5 Green Blue L Violet 7 Grants Gray 8 White 9



Potentioneters - Variable resistor Trim pot - "

Symbols for potentioneter

Z A

L

->=

Units of resistance (Ohm) _

50 SL (50 Ohms)

Capacitor

g = CV

Negative change dielectric waterial

9= charge V= voltage

C= capacitame

Units

Either in pf (picofarad) 10¹² f m f (micro farad) 10⁶ f

Q ~ capacitor

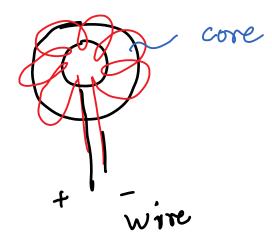
Capacitors - 3 values willen on them e.g. 102 => 10 x 102 pf Sometimes capacitors home only 2 numbers. Assume 3rd number is zero.

e.g. 22 \Rightarrow 220 \Rightarrow 22 $\times (10^{\circ}) = 22 pf$

Symbol

 $\frac{1}{1}$ or $\frac{1}{1}$

Inductor (stores energy)



$$V = L \frac{dI}{dt}$$

lower case

Voltage source:

e.g. battery

+

Current Source

