Supplemental Material: Example Circuit Elements

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Resistor Types

Wirewound Resistors

Carbon Film Resistors

Metal Foil Resistors

Carbon Resistors
Resistor Color Code

![Resistor Color Code Diagram]

- **First colour band**
  - Black: 0
  - Brown: 1
  - Red: 2
  - Orange: 3
  - Yellow: 4
  - Green: 5
  - Blue: 6
  - Violet: 7
  - Grey: 8
  - White: 9

- **Second colour band**
  - Black: 0
  - Brown: 1
  - Red: 2
  - Orange: 3
  - Yellow: 4
  - Green: 5
  - Blue: 6
  - Violet: 7
  - Grey: 8
  - White: 9

- **Third colour band**
  - Silver multiply by 0.01
  - Gold multiply by 0.1
  - Black multiply by 1
  - Brown multiply by 10
  - Red multiply by 100
  - Orange multiply by 1,000
  - Yellow multiply by 10,000
  - Green multiply by 100,000
  - Blue multiply by 1,000,000

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Battery