
Technician Question Pool

July 2018 to June 2022

The MORE Project

<http://n2re.org/m-o-r-e-project>



Electronic Components & Circuit Diagrams

No-Nonsense pages 15 - 16

Resistors, capacitors and capacitance, inductors and inductance, batteries

Resistors control how much current flows in a circuit. Capacitors store energy in an electric field. Inductors are coils of wire that have an electric field around the coil when current flows through the wire. Batteries store energy in the form of chemical potential.



T6A01

What electrical component opposes the flow of current in a DC circuit?

- A. Inductor
- B. Resistor
- C. Voltmeter
- D. Transformer



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Resistors, Capacitors

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T6A01

What electrical component opposes the flow of current in a DC circuit?

- A. Inductor
- B. Resistor**
- C. Voltmeter
- D. Transformer



T6A02

What type of component is often used as an adjustable volume control?

- A. Fixed resistor
- B. Power resistor
- C. Potentiometer
- D. Transformer



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T6A02

What type of component is often used as an adjustable volume control?

- A. Fixed resistor
- B. Power resistor
- C. Potentiometer**
- D. Transformer



T6A03

What electrical parameter is controlled by a potentiometer?

- A. Inductance
- B. Resistance
- C. Capacitance
- D. Field strength



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T6A03

What electrical parameter is controlled by a potentiometer?

- A. Inductance
- B. Resistance**
- C. Capacitance
- D. Field strength



T6A05

What type of electrical component consists of two or more conductive surfaces separated by an insulator?

- A. Resistor
- B. Potentiometer
- C. Oscillator
- D. Capacitor



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T6A05

What type of electrical component consists of two or more conductive surfaces separated by an insulator?

- A. Resistor
- B. Potentiometer
- C. Oscillator
- D. Capacitor**



T6A04

What electrical component stores energy in an electric field?

- A. Resistor
- B. Capacitor
- C. Inductor
- D. Diode



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T6A04

What electrical component stores energy in an electric field?

- A. Resistor
- B. Capacitor**
- C. Inductor
- D. Diode



T5C01

What is the ability to store energy in an electric field called?

- A. Inductance
- B. Resistance
- C. Tolerance
- D. Capacitance



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T5C01

What is the ability to store energy in an electric field called?

- A. Inductance
- B. Resistance
- C. Tolerance
- D. Capacitance**



T5C02

What is the basic unit of capacitance?

- A. The farad
- B. The ohm
- C. The volt
- D. The henry



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T5C02

What is the basic unit of capacitance?

- A. The farad
- B. The ohm
- C. The volt
- D. The henry



T6A07

What electrical component usually is constructed as a coil of wire?

- A. Switch
- B. Capacitor
- C. Diode
- D. Inductor



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T6A07

What electrical component usually is constructed as a coil of wire?

- A. Switch
- B. Capacitor
- C. Diode
- D. Inductor**



T6A06

What type of electrical component stores energy in a magnetic field?

- A. Resistor
- B. Capacitor
- C. Inductor
- D. Diode



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T6A06

What type of electrical component stores energy in a magnetic field?

- A. Resistor
- B. Capacitor
- C. Inductor**
- D. Diode



T5C03

What is the ability to store energy in a magnetic field called?

- A. Admittance
- B. Capacitance
- C. Resistance
- D. Inductance



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T5C03

What is the ability to store energy in a magnetic field called?

- A. Admittance
- B. Capacitance
- C. Resistance
- D. Inductance**



T5C04

What is the basic unit of inductance?

- A. The coulomb
- B. The farad
- C. The henry
- D. The ohm



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T5C04

What is the basic unit of inductance?

- A. The coulomb
- B. The farad
- C. The henry**
- D. The ohm



T6A11

Which of the following battery types is not rechargeable?

- A. Nickel-cadmium
- B. Carbon-zinc
- C. Lead-acid
- D. Lithium-ion



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T6A11

Which of the following battery types is not rechargeable?

- A. Nickel-cadmium
- B. Carbon-zinc**
- C. Lead-acid
- D. Lithium-ion



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T6A10

Which of the following battery types is rechargeable?

- A. Nickel-metal hydride
- B. Lithium-ion
- C. Lead-acid gel-cell
- D. All of these choices are correct



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T6A10

Which of the following battery types is rechargeable?

- A. Nickel-metal hydride
- B. Lithium-ion
- C. Lead-acid gel-cell
- D. All of these choices are correct**



T6A08

What electrical component is used to connect or disconnect electrical circuits?

- A. Magnetron
- B. Switch
- C. Thermistor
- D. All of these choices are correct



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T6A08

What electrical component is used to connect or disconnect electrical circuits?

- A. Magnetron
- B. Switch**
- C. Thermistor
- D. All of these choices are correct



T6A09

What electrical component is used to protect other circuit components from current overloads?

- A. Fuse
- B. Capacitor
- C. Inductor
- D. All of these choices are correct



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T6A09

What electrical component is used to protect other circuit components from current overloads?

- A. Fuse
- B. Capacitor
- C. Inductor
- D. All of these choices are correct





A non-profit initiative by the IEEE and ARDC to increase the numbers of youth (12-18) and non-males in Amateur Radio. Participants earn FCC licenses and receive free 2-way radios.

For MORE information: n2re.org/m-o-r-e-project
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