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an electronic component that stores electrical charge its main purpose is to temporarily store electrical energy and then release it when needed capacitors are often used in circuits that require a temporary electrical charge such as in filters timing circuits and power supplies

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the free stem lessons and activities below guide students in designing building testing and troubleshooting circuits in these activities students will learn about series and parallel circuits open closed and short circuits the importance of conductive and insulating materials voltage current resistance and ohm s law and more

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