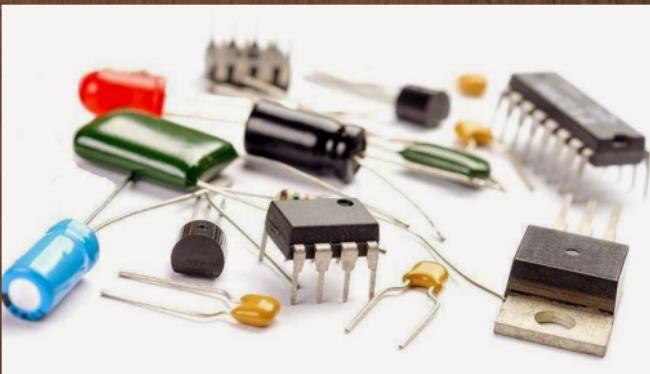




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ELECTRONICS SNIPPETS- CAPACITORS





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WHY CAPACITORS ARE IMPORTANT?





- Capacitors are one of the passive components and also one of the basic components in electronics such as resistors, inductors and semiconductors.
- Capacitors are playing an important role in almost all circuits, because they provide energy storage and also have some important filtering applications.
- Capacitors are mainly used in power supply applications, in power factor correction circuits, and also used as decoupling capacitors in consumer electronics.





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- However one of their main uses is, in timing circuits as the discharge time for that energy can be calculated.
- The capacitor's greatest limitation is that it can only store a limited voltage.
- Mainly one of its benefits is it can release a whole lot of charge at a rapid rate.
- They are made with a preferably thin insulating material between two metal plates which will fail under high voltage.

