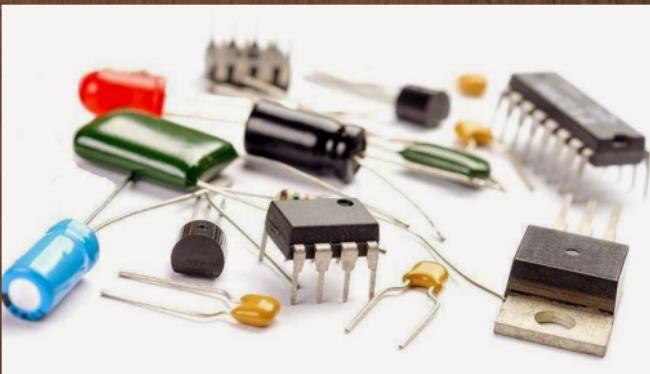




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ELECTRONICS SNIPPETS- CAPACITORS





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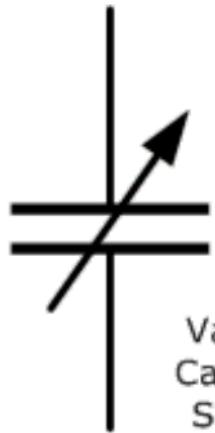
TYPES OF CAPACITORS: DIELECTRIC CAPACITORS



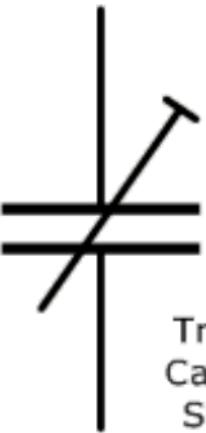


- Variable types of dielectric capacitors are generally available in the market.
- These dielectric capacitors are mainly used in transistor radios, tuning receivers and transmitters.
- The multi-plate air-spaced capacitors are the variable dielectric type capacitors.
- They contain a set of fixed plates and a set of movable plates which move in between the fixed plates.





Variable
Capacitor
Symbol



Trimmer
Capacitor
Symbol





- The overall capacitance values (C) for this type of capacitors are determined according to the position of the moving metal plates with respect to the fixed metal plates.
- In this design when two sets of metal plates fully mesh together then the capacitance value is generally at maximum value.





- The symbols for the variable type and trimmer type capacitors are shown in the above figure.
- A variable type capacitor is a capacitor in which we can vary the capacitance value mechanically or electronically.
- Generally, these variable types of capacitors are used in LC circuits, to set the resonance frequency.
- Like variable type capacitors the preset type variable capacitors are also available, they are called ‘Trimmers’.