

What are fixed capacitors used for?

Used for circuits that need high tolerances. Basic Electronics - Fixed Capacitors - The Capacitors whose value is fixed while manufacturing and cannot be altered later are called as Fixed Capacitors. The main classification of fixed capacitors is done as polarized and non-polarized.

What are fixed capacitors whose capacitance value is fixed?

The capacitors whose capacitance value is fixed are known as fixed capacitors. Ex: Mica capacitor, paper capacitor, plastic capacitor, etc. The different fixed capacitors are shown in the figure. Based on the dielectric material used fixed capacitors are further classified into:

Are fixed capacitors polarized or non-polarized?

The main classification of fixed capacitors is done as polarized and non-polarized. Let us have a look at Non-polarized capacitors. These are the capacitors that have no specific polarities, which means that they can be connected in a circuit, either way without bothering about the placement of right lead and left lead.

Which capacitors can be adjusted?

The capacitors whose value can be adjusted are known as adjustable capacitors. These are always connected either in series or in parallel with fixed capacitors. These types of capacitors are used where a small change in capacitance is required. Ex: Trimmer & Padders. The trimmers are shown in the figure.

What are the different types of capacitors?

Among the types of capacitors, let us first go through the Ceramic Capacitors. The common capacitors used among fixed type are Ceramic Capacitors. The Ceramic capacitors are fixed capacitors that have ceramic material as a dielectric. These ceramic capacitors are further classified as class1 and class2 depending upon their applications.

What are the different types of film capacitors?

Depending upon the type of film used, these are classified as Paper and Metal film capacitors. These film capacitors are both paper dielectric capacitors whereas a paper capacitor uses a waxed paper while a metallic film capacitor uses a metallized paper. The arrangement is almost same as shown below.

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Below we present the most common capacitor types, with a sample picture of each. Your capacitor may look slightly different than our pictures. You can browse each capacitor ...

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