

What are Trimmer and variable capacitors?

Trimmer and variable capacitors are a group of devices that provide a capacitance that is user-adjustable within some specified, relatively narrow range. Devices covering capacitance ranges of a few picofarads to a few nanofarads are commonly available, with voltage ratings from the tens of volts into the kilovolts.

What is the difference between standard and adjustable capacitors?

Standard capacitors have a fixed value of capacitance, but adjustable capacitors are frequently used in tuned circuits. Different types are used depending on required capacitance, working voltage, current handling capacity, and other properties.

Which type of capacitor is used to adjust the capacitance?

Adjustable capacitors that normally have slotted screw-type adjustment and are used for very fine adjustment in a circuit are called trimmers. Ceramic or mica is a common dielectric in these types of capacitors, and the capacitance usually is changed by adjusting the plate separation.

When should I use a variable capacitor?

Typically used for calibration, tuning, and matching applications, their relatively high cost and potential for maladjustment recommends the use of fixed value devices where feasible. Trimmers, Variable Capacitors are in stock at DigiKey.

Where can I buy a replacement capacitor?

When purchasing a replacement capacitor, consider the brand. If possible, you should get the brand of the capacitor you are replacing. If this is difficult, you may want to call the AC manufacturer and enquire about places to buy the same exact capacitor.

Where can I buy AC capacitors?

AC capacitors can be bought from various online sources such as Amazon and Walmart. If you are in a hurry and do not have time to order, there are also local stores where you may find them.

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Ah, OK - yeah, things get a bit tricky down there. You could probably make AM-style hyperabrupt varicaps (like the KV1235Z someone mentioned) work in the oscillator part of a transistor ...

Variable trimmer capacitors are types of adjustable capacitors (devices that store electrical charge in circuits) where the capacitor capacitance (its ability to store an electrical charge) can be ...

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I see.. Hopefully one day someone will have a nice idea how to make variable capacitors in similar size to fixed capacitors. By using a new structure or newer materials..

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