Capacitor data table

What is a capacitor data sheet?

This makes a data sheet one of the most useful resources for circuit designers and engineers. Despite their usefulness, data sheets can contain a lot of information making it difficult for users to extract the details they require for a given component. A typical capacitor data sheet provides the following information about a component:

What is a capacitor in a circuit?

(Electrolytic, Ceramic, SMD) A capacitor is an electrical device that stores energy in the form of an electric field and provides it back to the circuit when necessary. Before using them in the circuit, we need to identify the capacitors as per our circuit requirements.

How is a capacitor measured?

A capacitor is measured by the size of its capacitance. A capacitance is the electric capacity of a capacitor,i.e. the amount of electrically charged carriers it can store. er . The relative dielectric constant can have values between er = 1 (air) and er ~ 10,000 (special ceramic materials).

What are the characteristics of a capacitor?

For most types of capacitors, manufacturers specify voltage characteristics in terms of rated voltage, surge voltage, operating voltage, transient voltage, reverse voltage, and ripple voltage. The rated voltage specifies the maximum peak voltage value that may be applied between the terminals of a component.

What is the operating voltage of a ceramic capacitor?

The operating voltage range for a ceramic capacitor is 16 volts to 15 kV. There are different types of representations for the voltage rating of these capacitors. Sometimes it is written clearly on the enclosure of the capacitor with its unit. For some disk capacitors,it is represented by a single underline after the capacitance value.

What are capacitors used for?

Capacitors are used in electronic circuits for a wide range of applications including coupling,timing,filtering,decoupling,and wave shaping. These passive components come in a wide array of shapes,sizes,and designs,and it is usually not easy to identify a component that meets the specific requirements of an application.

Judging by a capacitors size and type, you will quickly learn to determine if the value on the capacitor is given in pF, nF or uF.

In this article, we will explain how to read capacitor values that are available in the market. Although some capacitor types may not follow these methods, so do not get confused. An electrolytic capacitor is a type that

uses ...

Les règles du mécanisme de capacité, dans leur version... Date saisie: date_saisie[date] Date de saisie d"une cession dans le registre des garanties de capacité.; Type: type[text] Type de la cession porté : transfert, transaction, transfert à terme, transaction à terme. Un transfert est une cession sans prix associé. Année livraison: annee_livraison[date] Année de livraison des ...

Refer to standard products table (120 Hz, +105°C) Correction factor for frequency. For capacitance value > 1,000 uF, Add 0.5 per another 1,000 uF for -25°C / +25°C. Add 1 per another 1,000 uF for -40°C / +20°C.

A capacitor is an electronic component that stores electrical energy in an electric field. It consists of two conductive plates separated by an insulating material called a dielectric. When a voltage is applied across the conductive plates, an electric field ...

Typical values are, for example, ±3% for KT-/MKT capacitors and ±0.5 or ±1% for KP-/MKP capacitors according to type. Dielectric absorption A capacitor which has been charged for a long time and then been completely discharged, has a ...

Aluminum Electrolytic Capacitors Axial Standard Fig. 1 FEATURES o Polarized aluminum electrolytic capacitors, non-solid electrolyte o Axial leads, cylindrical aluminum case, insulated with a blue sleeve o Taped version available for automatic insertion o Charge and discharge proof o Useful life: 3000 h at 85 °C o Standard dimensions

RATING FACTOR FOR AMBIENT AIR TEMPERATURE. Maximum conductor temperature (º C) Ambient air temperature (º C) 20 25 30 35 40 45 50 55 60 90 11.08 1.04 0.96 0.91 0.87 0.82 0.76 0.71

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