

Can a 400V capacitor be used with 230-250v AC?

In various circuits intended for use with 230-250 V AC I've seen capacitors labelled as "400V" (Examples: 1, 2) When I look at Capacitor specifications, they often give separate AC and DC ratings. For example: (I believe an X-rated cap is designed for use across AC supply live-neutral)

How do you know if a capacitor is 2a474j?

If a capacitor is f.ex. marked 2A474J, the capacitance is decoded as described above, the two first signs is the voltage rating and can be decoded from table 2 here below. 2A is 100VDC rating according to the EIA standard. Some capacitors are only marked 0.1 or 0.01, mostly in these cases the values are given in uF.

What is a capacitor marking?

A capacitor marking is a code, which indicates the value of the component. It usually consists of three numbers, which indicates the value, and a letter, which indicates the tolerance. Tables usually provide a means to decode the numbers; however, there are also calculators available as well.

What is a voltage rating on a capacitor?

Chart1: CAPACITOR MARKING CODE STANDARDIZED BY THE ELECTRONIC INDUSTRY ALLIANCE (EIA) The voltage rating on a capacitor indicates the maximum voltage it can safely handle. This parameter is ensuring safety and performance, as it prevents over-voltage failures that can damage both the capacitor and the surrounding circuitry.

Where can I Buy 400 VDC aluminum electrolytic capacitors?

Filter the results in the table by unit price based on your quantity. 400 VDC Aluminum Electrolytic Capacitors are available at Mouser Electronics. Mouser offers inventory, pricing, & data sheets for 400 VDC Aluminum Electrolytic Capacitors.

How do you read capacitor markings?

Reading capacitor markings involves identifying several key attributes. The capacitance value often marked directly in microfarads (uF), nanofarads (nF), or picofarads (pF). The voltage rating indicates the maximum voltage the capacitor can handle, marked as a number followed by "V".

400V1000uf compact capacitor Voltage:400V Capacity:1000uF Size:35*50 Characteristics:RoHS compliant;high ripple resistance;high reliability. Application:for inverters, industrial power supplies and data processing equipment
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For longevity and nonlinear effects at high stresses, it is recommended to keep ample margin on these ratings, especially on the voltage rating. For 230VAC applications, even though typical you wouldn't expect more than about 325V peak over your lines, choose at least a 400V or better even a 450V capacitor. And yes, even when the manufacturer ...

K-Line capacitors are renowned for the following features: Safe and Environment-friendly Dry type, all materials used are non-toxic and do not contain liquid impregnants.

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