

What is a safety capacitor?

Safety capacitors are capacitors specifically designed to suppress electromagnetic interference and filter, providing safety protection for electronic products. What is X capacitor? X capacitors (also known as X1, X2, and X3 capacitors) are designed to be connected across the line (live to neutral) in an AC mains circuit.

What are x & y safety capacitors?

X and Y safety capacitors filter AC signals and reduce EMI, so they are directly connected to hazardous AC mains voltages and must be certified as "safety capacitors" to ensure safe operation under these conditions. There are various types of safety capacitors used in safety filter circuits.

How do I choose a Class X & Y safety capacitor?

To be clear, you should select your Class-X and Class-Y capacitors according to your design's purpose and requirements. Whereas X2 and Y2 caps are appropriate for household applications, X1 and Y1 safety capacitors are used in industrial settings.

Are Vishay safety capacitors UL compliant?

All safety capacitors are approved according to IEC 60384-14.4, UL, and CQC, while all series are compliant with RoHS and the REACH regulations. Vishay's line of X1 / Y2 and X2 surface-mount safety capacitors offers devices for operating voltages up to 250 VAC. As surface-mount devices, the capacitors simplify circuit board assembly.

What are Kemet X/Y capacitors used for?

KEMET's X/Y capacitors are used in mains-connected applications to minimize the amount of conducted EMI common in many electrical devices. The self-healing characteristics of film and paper, as well as the high dv/dt capabilities, make them an excellent choice to reduce conducted emissions.

What are Vishay x1 / y2 & x2 safety capacitors?

Vishay's line of X1 / Y2 and X2 surface-mount safety capacitors offers devices for operating voltages up to 250 VAC. As surface-mount devices, the capacitors simplify circuit board assembly. The components are supplied in tape and reel packages and are picked and placed the same as all other surface-mount components.

Class-X and Class-Y capacitors are safety-certified and generally designed and used in AC line filtering in many electronic device applications. These safety capacitors are also known by other names, including EMI/RFI suppression capacitors and ...

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DK1 Series Y1 Safety Capacitor Murata's IEC 60384-14 Y1 class safety certified, surface mount ceramic capacitors for AC/DC power supplies. Co-Browse By using the Co-Browse feature, you are agreeing to allow a support representative from ...

Ultimate Guide to Safety Capacitors X and Y: Detailed explanation of functions, differences, and applications in electronic products, including core functions such as EMI suppression and filtering of X capacitors.

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