

What is a safety capacitor?

Capacitors are essential passive components used in every modern circuit and electronics application for smoothing and filtering power lines and for bypassing signals. In AC/DC EMC filter applications, two special classes of capacitors - Class-X and Class-Y - are used to filter AC power-source noise and are commonly referred to "safety capacitors".

What are the different types of Safety capacitors?

Safety capacitors are grouped into a number of different classes. For X Type capacitors there are class X1, X2 and X3. For Y Type capacitors there is class Y1, Y2, Y3 and Y4. The only types you will probably see for sale are X1 (impulse tested to 4000 Volts), X2 (tested to 2500 V), Y1 (tested to 8000 V) and Y2 (tested to 5000 V).

What types of noise suppression & safety capacitors are available?

We supply a wide range of Noise Suppression & Safety Capacitors to Delta, X1, X2, Y1 and Y2 suppression classes. What is a noise suppression safety capacitor? Class-X and Class-Y noise suppression safety capacitors are safety-certified and generally designed and used in AC line filtering in many electronic device applications.

Which safety capacitors are used in filtering applications?

We usually use the safety capacitors with voltage rating more than double the expected voltage in our filtering applications. X capacitors are available in classes X1 to X3 and Y capacitors are available in classes Y1 to Y4. Among these most commonly available classes are X1, X2, Y1 and Y2.

What are safety capacitors made of?

Construction of Safety Capacitors: Safety capacitors are available in ceramic disc and metalized film or paper. The film type are made of self-healing metalized polyester, polypropylene or paper and usually come in a "box" style casing as the capacitor is encased in a flame retardant or flame-proof case.

What is an example of a 'special' capacitor?

Examples of 'specials' include large suppression capacitors for most of the UK's power filter manufacturers, close tolerance polycarbonate for communications and defence, and fail-safe capacitors for railway signalling.

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