

Who makes aluminum electrolytic capacitors?

Panasonic engineers Capacitors that maximize performance and durability. As a leading supplier of passive components, Panasonic manufactures Aluminum Electrolytic Capacitors in both Surface Mount and Leaded packages. Discover first-hand how Panasonic's Aluminum Electrolytic Capacitors revolutionize circuit designs!

What is the core material of aluminum electrolytic capacitors?

The core material of Aluminum electrolytic capacitors is a high purity 4 N 99.99% etched and formed Aluminum foil with standard thickness with between 80 μm and 125 μm (Ebel, 2003; JCC -Foil). Examples of high and low voltage anode foils are shown in Fig. 3. A high voltage anode foil contains up to 1.2 Mio tunnel of a length of ca 40 μm per cm^2 .

What are high voltage aluminium electrolytic capacitors?

High voltage aluminium electrolytic capacitors are the backbone of industrial and automotive electronics, with working voltages $U_R \geq 400 \text{ V}$. They are used primarily in the DC-link circuit. The advantage of these capacitors is their lower cost compared to other capacitor types, a high CV product, and better cool-ability.

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What is a polymer aluminum electrolytic capacitor?

Polymer aluminum (PA) electrolytic capacitors were developed as an alternative to liquid aluminum electrolytic capacitors. The liquid electrolyte was replaced by a solid conductive polymer electrolyte. Liquid electrolyte tends to evaporate over time, causing a decrease in capacitance and an increase in ESR [1,2].

Are aluminum electrolytic capacitors a good choice?

One of the major axes of research on electrolytic capacitors is the aluminum electrolytic capacitor (AEC). They have higher volume efficiency due to a significantly lower minimum dielectric thickness than all the other capacitors.

Aluminum Electrolytic Capacitors provide a smaller capacitor option when high power ratings and high capacitance values are needed. Vishay offers a broad choice of aluminum capacitors, as well as the product support necessary to specify the ideal products for automotive, medical, alternative energy, and other high-demand applications.



Industrial Power Supply Aluminum Electrolytic Capacitors

Mouser is an authorized distributor for many aluminum electrolytic capacitor manufacturers including Chemi-Con, Cornell Dubilier, KEMET, Nichicon, Panasonic, TDK, Vishay & more. Please view our large selection of aluminum electrolytic capacitors below.

Aluminum electrolytic capacitors store massive amounts of energy in compact packages that are available at an attractive price Click image to enlarge Figure 1: The construction (right) and cross section (left) of an aluminum electrolytic capacitor. #173;A growing number of applications, ranging from solar power converters all the way to miniature power ...

Reduced overall length tolerance (#177; 0.2 mm) for effective heat sink mounting of capacitor banks Suited for use of thin thermal pads. The AlCap tool is a public web-based tool, that allows to consider the operating conditions in the design in process of all industrial databook products.

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Exxelia radial leaded aluminum electrolytic capacitors range included cylindrical capacitors and rectangular low-profile flat packaging products series with operating temperature up to 125#176;C. They can withstand up to 50g vibrations and 92,000 ft altitude while demonstrating a long lifetime thanks to their nearly hermetic sealing, which makes ...

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KEMET aluminum electrolytic capacitors offer excellent ripple current carrying capability coupled with extended life for high energy and power applications. The high capacitance and high ripple current rating are ideal for DC link applications in power converters.

*1 As of February 28, 2024, the industry's highest capacitance models in five major sizes (#248;5 x 5.8 to #248;10 x 10.2) for automotive applications included in the conductive polymer hybrid aluminum capacitors are guaranteed to operate for 4,000 hours at 135#176;C (capacitors in sizes of #248;5 and #248;6 are guaranteed to operate for 2,000 hours at 135#176;C).

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The EEH-ZV Series Conductive Polymer Hybrid Aluminum Electrolytic Capacitors offer high ripple current and low ESR, with double endurance ratings of 125#176;C and 135#176;C at 4,000 hours. AEC-Q200 compliant, they provide up to 150% higher ripple current and 39% lower ESR than the EEH-ZT Series, ensuring high performance and durability for automotive applications.

Reduced overall length tolerance (#177; 0.2 mm) for effective heat sink mounting of capacitor ...

An electrolytic capacitor is a type of polarized capacitor that uses a wet electrolytic solution and an oxide film to store electrical charge. An example is the aluminum electrolytic capacitor which contains two closely spaced spooled strips of aluminum foil for the positive anode and negative cathode. These are separated by a thin spacer ...

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