Environmental Assessment of Aluminum Electrolytic Capacitors

The aim of this study is to compare the environmental impact due to the stages of production (from the raw materials supply to the assembly) and end-of-life (recycle or disposal of wastes) of two aluminum electrolytic ...

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Article "Environmental impact assessment of aluminum electrolytic capacitors in a product family from the manufacturer"s perspective" Detailed information of the J-GLOBAL is an information ...

Polymer hybrid aluminum electrolytic capacitors (PHAECs) are a new generation of aluminum electrolytic capacitors (AECs) following traditional liquid AECs ...

More environmental sustainable approaches also should be developed urgently. In this article, aluminum electrolytic capacitors (AECs) are focused on. Capacitors, mounted ...

Environmental impact assessment of aluminum electrolytic capacitors in a product family from the manufacturer"s perspective. https://doi /10.1007/s11367-022-02117-x Journal: The ...

Due to their substantial energy density and economical pricing, switching-mode power supplies (SMPSs) often utilize electrolytic capacitors. However, their ability to function ...

identification check and visual assessment, examination of papers accompanying the batch. ... The finish of aluminum electrolytic capacitors is assessed in compliance with TDK Electronics ...

? A cradle-to-gate life cycle assessment is performed for a capacitor product family. ? Fossil depletion, climate change, and terrestrial ecotoxicity are key impact categories. ? ...

The electricity used (798,545 kWh per 100,000 capacitors) and the raw material aluminum ingots (5130 kg per 100,000 capacitors) are the environmental hotspots for high-voltage AECs" life...

It is obvious that further progress in performance and reliability of Polymer Tantalum capacitors requires an understanding of the nature of the environmental effects on ...

A novel annealing process of controlled heating rate is used to produce severe cold-formed aluminum plates, which are processed into aluminum foil and mainly used for high ...

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A lifetime model of a 100uF 63 V hybrid polymer aluminium electrolytic capacitor rated for 125 °C is presented. The capacitors were tested in a voltage range between 0 V and ...

Environmental impact assessment of aluminum electrolytic capacitors in a product family from the manufacturer"s perspective Purpose. Aluminum electrolytic capacitors ...

Aluminum electrolytic capacitors (AECs) are widely used in electric circuits with various functions of filtering, power storage, decoupling, and circuit smoothing. High-voltage ...

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The importance of such devices cannot be underestimated. Modern society depends on a number of devices for which capacitors are used; the functional materials ...

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