

Aluminum electrolytic capacitors

Greater ripple current capability and reduced height

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TDK Corporation presents three new series of EPCOS aluminum electrolytic capacitors. The B43743*/B43763* series of screw terminal capacitors features a 40 percent higher ripple current capability than the previous series of the same size. The new capacitors are designed for rated voltages of between 350 V DC and 450 V DC and cover a capacitance range from 1500 μ F to 18,000 μ F. The components withstand a maximum operating temperature of 105 °C, at which a useful life of 6000 h is achieved, when operated at the rated current. Depending on the type, the can diameters range from 64.3 mm to 90 mm, and the heights from 80.7 mm to 221 mm.

The ripple current capability has also been increased for snap-in types, too. It is, for example, about 20 percent higher for the types of the B43544* series that are designed for 400 V DC and 450 V DC. Altogether, this series covers voltages from 200 V DC to 550 V DC and offers capacitances of between 47 μ F and 2700 μ F. At the maximum operating temperature of 105 °C and the rated current, the useful life is 3000 hours. The can diameter ranges from 22 mm to 35 mm, and the heights from 25 mm to 55 mm.

The B43641* series of snap-in capacitors, which is also new, has an impressively compact design. The new capacitors feature an insertion height that is about 5 mm lower than that of the previous series while maintaining the same capacitance. The height ranges from 25 mm to 55 mm, and the can diameter from 22 mm to 35 mm. These capacitors are designed for voltages from 400 V DC to 450 V DC and for a useful life of 2000 hours at 105 °C. The capacitance range extends from 120 μ F to 1200 μ F.

The main applications of the new EPCOS aluminum electrolytic capacitors are frequency converters and power supplies in industrial applications.

Main applications

- Frequency converters and power supplies in industrial applications.

Main features and benefits

- Ripple current capability up to 40 percent higher
- More compact designs due to reduction of height by about 5 mm

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes electronic components, modules and systems* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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