

## Aluminum electrolytic capacitors

### Compact screw terminal series with high ripple current capability

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October 23, 2014

TDK Corporation presents three new series of EPCOS aluminum electrolytic capacitors with screw terminals. They are characterized by their high ripple current capability and simultaneously highly compact dimensions. The capacitors of the new B43703\* series are designed for rated voltages from 350 V DC to 450 V DC and cover a capacitance range from 1500  $\mu$ F to 22 000  $\mu$ F. They are up to 20 percent smaller than those of the predecessor series at the same ripple current capability. The new types have diameters of 51.6 mm to 90.0 mm; their heights range from 80.7 mm to 197.0 mm.

The new B43704\* series offers not only a ripple current capability up to 25 percent higher than for the predecessor series, but also smaller dimensions. Their diameters are also between 51.6 mm and 90.0 mm with heights of between 80.7 mm and 221.0 mm. These capacitors are designed for rated voltages from 350 V DC to 550 V DC. Their capacitance extends from 820  $\mu$ F to 22 000  $\mu$ F.

In the new B43705\* series, the ripple current capability was increased by up to 40 percent compared with the predecessor series, while maintaining the same compact dimensions. These capacitors have diameters ranging from 51.6 mm to 90.0 mm and insertion heights from 80.7 mm to 221.0 mm. They are designed for rated voltages from 350 V DC to 450 V DC and their capacitance range extends from 1000  $\mu$ F to 18 000  $\mu$ F.

All three new EPCOS series are designed for a maximum operating temperature of 85 °C and attain a useful life of 12 000 hours. The series are also offered in B43723\*, B43724\* and B43725\* versions. These types additionally have a threaded stud on the base of the can for mounting the capacitors.

The main applications of the new EPCOS aluminum electrolytic capacitors are converters in industrial electronics.

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#### **Main applications**

- Converters for use in industrial electronics

#### **Main features and benefits**

- Significantly higher ripple current capability and more compact dimensions compared with the predecessor series
- Useful life of 12 000 hours at a maximum temperature of 85 °C

## Key data

Series	Diameter [mm]	Height [mm]	Rated voltage [V DC]	Capacitance [μF]	Max. temperature [°C] / Useful life [h]
B43703* / B43723*	51.6 to 90.0	80.7 to 197.0	350 to 450	1500 to 22 000	85 / 12 000
B43704* / B43724*	51.6 to 90.0	80.7 to 221.0	350 to 550	820 to 22 000	
B43705* / B43725*	51.6 to 90.0	80.7 to 221.0	350 to 450	1000 to 18 000	

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## 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 2014, TDK posted total sales of USD 9.6 billion and employed about 83,000 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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