

Capacitors

TDK offers very compact snap-in aluminum electrolytic capacitors with 85 percent increased ripple current capability

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TDK Corporation (TSE:6762) presents its new EPCOS B43652* series of snap-in aluminum electrolytic capacitors that are characterized by very compact dimensions and very high ripple current-carrying capacity. The RoHS-compatible capacitors are designed for a maximum rated voltage of 450 V DC and cover a capacitance range from 270 μ F to 820 μ F with seven types. The capacitance values from 270 μ F to 560 μ F are offered in different dimensions, which increases design flexibility. Depending on the capacitance value, the compact dimensions are only 25 mm x 40 mm to 35 mm x 55 mm (D x H).

A special performance feature of the AEC-Q200 qualified devices is their very high ripple current capability of up to 11.28 A at 100 Hz and 85 °C. This was made possible by a new design with a reinforced bucket bottom for improved active cooling. In conventional capacitors, the valve is located at the bottom of the bucket, but in the new design, it is on the side. This improvement and active cooling have increased the ripple current capability by 85 percent.

A typical application of these capacitors with a high CV product is the DC link circuitry of onboard chargers in xEVs.

Main application areas

- DC link in onboard chargers of xEVs

Main features and benefits

- Compact dimensions only 25 mm x 40 mm to 35 mm x 55 mm (D x H)
- Very high ripple current carrying capacity of up to 11.28 A

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2022, TDK posted total sales of USD 15.6 billion and employed about 117,000 people worldwide.

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