

Aluminum electrolytic capacitors

TDK releases aluminum electrolytic capacitors with high CV product and high ripple current capability

October 29, 2020

TDK Corporation (TSE: 6762) presents the new EPCOS aluminum electrolytic capacitor series B43647* with snap-in terminals. Thanks to their outstandingly high CV product, they are ideal for highly compact solutions in power electronics. The capacitors are designed for a maximum operating temperature of 105 °C; at a rated voltage of 450 V DC and maximum ripple current, they reach a useful life of 2000 h. A capacitance range from 120 µF to 1000 µF is offered in case sizes ranging from 22 mm x 25 mm to 35 mm x 55 mm. Another special feature is the high ripple current capability up to 7.22 A (100 Hz, 60 °C).

Due to their high level of reliability, these capacitors are well suited for use in power supplies for servers, telecommunications and industrial applications, as well as UPS systems, medical devices, photovoltaic inverters and frequency converters. With their robustness in relation to fast charging and discharging cycles, the high requirements in servo drive applications are fulfilled.

Main applications

- Power supplies for servers, telecommunications and industrial applications
- UPS systems
- Medical devices
- Photovoltaic inverters
- Frequency converters
- Servo drive applications

Main features and benefits

- High CV product
- Compact dimensions
- High ripple current capability
- High reliability
- High level of robustness in relation to fast charging and discharging cycles

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 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

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