

Aluminum electrolytic capacitors

TDK offers snap-in capacitors with increased compactness for general-purpose applications

April 23, 2024

TDK Corporation (TSE:6762) announces the new EPCOS B43659 series of snap-in aluminum electrolytic capacitors. This is the next generation of ultra-compact general-purpose components for voltages of 450 V (DC) featuring an extremely high CV product. It provides the same features and serves the same applications as the previous series; however, the B43659 is much more compact. In case sizes of only 22 mm x 25 mm to 35 mm x 50 mm (D x H), these components achieve capacitances ranging from 140 μ F to 1030 μ F. In addition to the standard versions with 2 terminals, versions with 3 terminals are also available to ensure correct installation.

Essential performance features include a high ripple current capability of up to 7.01 A (120 Hz, +60 °C) and a service life of at least 2000 h at a maximum operating temperature of +105 °C. Accurate lifetime calculation under application-specific conditions is quick and easy with the web-based AlCap Tool (www.tdk-electronics.tdk.com/en/alcap_tool).

Due to their high reliability and compact size, these RoHS-compliant aluminum electrolytic capacitors can be used in a wide range of applications, such as switched-mode power supplies, frequency converters, uninterruptible power supplies (UPS), medical equipment, and solar inverters.

Main applications

- Power supplies
- Frequency converters
- Uninterruptible power supplies
- Medical equipment
- Solar inverters
- Not for automotive applications unless otherwise specified

Main features and benefits

- Extremely high CV product, ultra-compact
- High reliability
- High ripple current capability
- Versions with 3 terminals to ensure correct insertion
- RoHS-compliant

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 2023, TDK posted total sales of USD 16.1 billion and employed about 103,000 people worldwide.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/240423
 Further information on the products can be found at https://www.tdk-electronics.tdk.com/en/alu_ultracompact

Contacts for regional media

Region	Contact	Phone	Mail
Europe	Mr. R. HIGGELKE TDK Electronics AG Munich, Germany	+49 89 54020 1378	ralf.higgelke@tdk.com
North America	Ms. D. MARTIN TDK Electronics Inc. Fountain Hills, AZ, USA	+1 480 836 4104	debbie.martin@tdk.com
South America	Mr. C. DALL’AGNOL TDK Electronics do Brasil Ltda., Gravataí, Brazil	+55 51 3484 7158	candido.dallagnol@tdk.com
India	Mr. H. BAGHEL TDK India Private Limited Noida, India	+91 12 04 50 58 42	himalaya.baghel@tdk.com
Greater China	Ms. S. SUEN TDK Electronics Hong Kong Limited, Hong Kong	+852 3669 8224	stella.suen@tdk.com
Japan	Mr. Y. OSUGA TDK Corporation Tokyo, Japan	+813 6778 1055	TDK.PR@tdk.com