

Service

TDK offers a comprehensive calculation tool for aluminum electrolytic capacitors

February 25, 2021

TDK Corporation (TSE:6762) presents the fully revised version 4.0 of the tried and tested Online AICap Useful Life Calculation Tool for EPCOS aluminum electrolytic capacitors. The tool covers all new high-voltage capacitors (>150 V DC) with screw, snap-in and solder pin connections. These DC link capacitors are particularly suitable for new designs of converters for industrial applications, such as photovoltaics and wind power generation, as well as uninterruptible power supplies.

The AICap tool enables up to 15 load profiles to be simultaneously entered, calculated and, if so desired, stored for later use. This powerful function allows applications to be developed both with single capacitors and capacitor banks. Furthermore, the tool can perform on a customer-specific basis calculation. This merely requires the CSC code specified in the respective data sheet to be entered.

Once all relevant values have been entered, in addition to the useful life of the capacitors under defined load conditions, the user also obtains data regarding the hot-spot temperature, power dissipation and much more. Coupled with its useful lifecycle under defined load conditions, the AICap tool provides industrial designers a solution that meets the needs of their demanding applications.

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.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/210225.

Link to the tool www.tdk-electronics.tdk.com/en/alcap_tool.

Please forward reader inquiries to marketing.communications@tdk-electronics.tdk.com.

Contacts for regional media

| Region | Contact | Phone | Mail |
|----------------------|---|--------------------|--|
| Europe | Mr. C. JEHLE TDK Electronics AG Munich, Germany | +49 89 54020 2441 | christoph.jehle@tdk-electronics.tdk.com |
| North America | Ms. D. MARTIN TDK Electronics Inc. Fountain Hills, AZ, USA | +1 480 836 4104 | debbie.martin@tdk-electronics.tdk.com |
| South America | Mr. C. DALL'AGNOL TDK Electronics do Brasil Ltda., Gravataí, Brazil | +55 51 3484 7158 | candido.dallagnol@tdk-electronics.tdk.com |
| India | Mr. H. BAGHEL TDK India Private Limited Noida, India | +91 12 04 50 58 42 | himalaya.baghel@tdk-electronics.tdk.com |
| Greater China | Ms. S. SUEN TDK Electronics Hong Kong Limited, Hong Kong | +852 3669 8224 | stella.suen@tdk-electronics.tdk.com |
| Japan | Mr. Y. OSUGA TDK Corporation Tokyo, Japan | +813 6778 1055 | pr@jp.tdk.com |