

Aluminum electrolytic capacitors

Compact single-ended series with high current capability

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TDK Corporation (TSE:6762) has developed a new series of EPCOS single-ended aluminum electrolytic capacitors that feature a particularly compact design, a high CV product and high ripple current capability. The capacitors of the B41897* series are available for rated voltages of between 25 V DC and 75 V DC and cover a capacitance range from 270 μ F to 12,000 μ F. The dimensions of the new components range from 12.5 mm x 20 mm to 18 mm x 40 mm (d x l) depending on the voltage and capacitance.

Thanks to the use of improved materials, the new capacitors can be exposed to high temperatures and are designed for continuous operation at up to 135 °C and for a peak temperature of 150 °C. In comparison with previous series, it has been possible to increase the ripple current capability while at the same time raising the capacitance by as much as 60 percent. This means that the maximum ripple current capability is now higher than 7 A at 125 °C and 100 kHz. Typical applications include automotive ECUs and power supplies.

Main applications

- Automotive ECUs and power supplies

Main features and benefits

- High continuous operating temperature of up to 135 °C and peak temperature of 150 °C
- Compact dimensions ranging from 12.5 mm x 20 mm to 18 mm x 40 mm (d x l)
- High ripple current capability

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 comprehensive 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 the areas of information and communication technology and automotive, industrial and consumer 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 2018, TDK posted total sales of USD 12 billion and employed about 103,000 people worldwide.

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 Further information on the products can be found under www.tdk-electronics.tdk.com/alu_single.
 Please forward reader inquiries to marketing.communications@tdk-electronics.tdk.com.

Contacts for regional media

Region	Contact		Phone	Mail
ASEAN	Mr. K. UNTERWEGER	TDK COMPONENTS PTE LTD, Singapore	+65 6597 0618	klaus.unterweger@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
Europe	Mr. C. JEHLE	TDK Electronics AG Munich, Germany	+49 89 54020 2441	christoph.jehle@tdk-electronics.tdk.com
India	Mr. G. DALVI	EPCOS India Private Ltd. Mumbai, India	+91 22 2575 0804	girish.dalvi@tdk-electronics.tdk.com
Japan	Mr. Y. OSUGA	TDK Corporation Tokyo, Japan	+813 6852 7102	pr@jp.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	Epcos do Brasil Ltda., Gravataí, Brazil	+55 51 3484 7158	candido.dallagnol@tdk-electronics.tdk.com