

Aluminum electrolytic capacitors

First ever vibration strength of 60 g

November 9, 2016

TDK Corporation presents the first* aluminum electrolytic capacitors that are specified for 60 g in accordance with IEC 60068-2-6**. The new generation offers the highest vibration strength and the best electrical performance in a single component. The robust EPCOS capacitors are available in three terminal designs (axial-lead, soldering star and double plated) with dimensions of 16 mm x 25 mm to 18 mm x 39 mm (d x l). They cover capacitance values of between 270 μ F and 5800 μ F and the voltage range from 25 V to 100 V. In addition, all 60 g types feature a high maximum operating temperature of up to 150 °C and are qualified to AEC-Q200.

TDK uses the axial design to achieve maximum vibration strength. Axial capacitors have crucial design-related benefits over the frequently used single-ended design: Flexible connecting tabs between the welding points and the foils prevent direct transmission of vibrations to the terminals. In addition, the winding is firmly clamped by the can by means of both axial and radial fixation forces. The winding is fixed in the radial direction by means of a ring-shaped compression corrugation in the middle of the aluminum can.

Typical applications for the new EPCOS capacitors are DC-DC converters and motor inverters.

* TDK market analyses, November 2016

** Test Fc, frequency range 10 to 2000 Hz, 3 x 2 hours, max. displacement amplitude 0.75 mm per 10 g, room temperature; capacitor fixed to its case using standard EPCOS fixture.

Main applications

- DC-DC converters and motor inverters for automotive electronics

Main features and benefits

- High vibration strength of 60 g
- High permissible operating temperature of 150 °C

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 portfolio includes electronic components, modules and systems* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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