



For Immediate Release

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TDK Develops Electric Double Layer “Supercapacitor”
New capacitor offers lowest ESR in the industry for this size

Mount Prospect, IL, February 16, 2009—TDK Corporation is announcing the development of an Electric Double Layer Capacitor (EDLC), which has the lowest ESR in the industry for its size*. The new capacitor, which will be available in a 20x20 mm size, will be featured at the TDK booth at APEC this week in Washington D.C.

The EDLC employs a double layer of charged particles formed on activated carbon coated electrodes in an electrolyte. As a result, high capacitance is achieved due to the large electrode surface area and thin charge-bearing layer.

TDK’s EDLC Supercapacitors leverage TDK’s core technologies in high-quality film coating and process control, in combination with extensive mass production capabilities for high-density energy storage devices. By careful optimization of design, materials selection and production method, TDK is able to deliver best-in-class performance, in a high-quality monolithic Supercapacitor package.

TDK’s new EDLC Supercapacitor is targeted at portable device applications such as High Power LED Flash. In this application, the characteristics of the Supercapacitor enable the use of the latest high current LEDs to produce camera flash illumination of similar performance to existing Xenon flash solutions, but without the need for high voltage components and complex charging circuits. Other applications include Pulsed Energy Storage, Power Loss Assist and Battery Assist.

TDK’s new EDLC Supercapacitor is planned to be in production in TDK’s energy devices production facilities in China from Q4 2009. Samples are available now to qualified customers, priced at \$5.00 each. For more information contact APEC2009@tdktca.com.

Main Features

1. Lowest ESR in the industry for this size*
2. Very high capacitance
3. Short charging time
4. Long life
5. Clean materials
6. Safe
7. Laminated formation for thin form-factor

Main Characteristics

	EDLC272020-501-2F-50
Nominal Dimensions	20 × 20 × 2.7 mm
Nominal Capacitance	500 mF
Nominal Impedance (AC 1kHz)	50 mΩ
Nominal ESR (DC)	75 mΩ
Operating Temperature	-30~+70 °C
Terminal Lead Material	Aluminum (with Nickel tip for ease of soldering)

* As of January 2009, according to TDK's investigations.

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About TDK:

TDK Corporation (NYSE: TDK), a leading global electronics company based in Japan, employs over 51,000 people worldwide. The company was established in 1935 to commercialize "ferrite," a key material in electronics and magnetics. TDK's current product line includes ferrite materials, electronic components, factory automation solutions, anechoic chambers & test systems, magnetic heads for hard disk drives (HDD) and power supplies. Net sales in FY08 were US\$8.7 billion. For more information on TDK products visit our website at www.TDK.com.