

Film capacitors

Ultra-compact DC link solution

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TDK Corporation presents an extremely compact EPCOS film capacitor for the DC link of inverters. With dimensions of just 40 mm x 58 mm (d x l) it offers a rated voltage of 350 V DC and a capacitance of 65 μF . This means that the capacitor, which has the order number B32320I2656J011, has a very high capacitance density of 0.9 $\mu\text{F}/\text{cm}^3$ and offers up to 50 percent more capacitance per volume than comparable capacitors. The space it requires on the PCB is correspondingly small. Other features include the low ESR of just 10 m Ω and the high ripple current capability of 3.7 A.

Both the plastic can and the epoxy resin sealing material are designed to be flame-retardant in accordance with UL 94 V0. The capacitor is designed for a temperature range from -25 °C to +65 °C. The capacitor has an integral thermal fuse that trips at a current of 5 A and a temperature of 115 °C.

Typical applications include the HF filtering in inverters, for example in domestic appliances, as well as general DC applications.

Main applications

- HF filtering in inverters, general DC applications

Main features and benefits

- Very compact dimensions of just 40 mm x 58 mm (d x l)
- Very high capacitance density of 0.9 $\mu\text{F}/\text{cm}^3$
- Low ESR of just 10 m Ω
- Integral thermal fuse

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, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. These products are marketed under the product brands TDK, EPCOS, Micronas, Tronics and TDK-Lambda. In addition TDK offers magnetic application products, 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 2017, TDK posted total sales of USD 10.5 billion and employed about 100,000 people worldwide.

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