

Film capacitors

TDK offers compact DC-link solution for PCB mounting in cylindrical shape

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TDK Corporation (TSE:6762) presents its new B32320I* series of compact cylindrical DC-link capacitors for mounting on PCBs. They are designed for voltages of 450 V DC to 1300 V DC and cover a capacitance range of 6.5 μ F to 260 μ F. The current handling capacity I_{RMS} is up to 27.6 A (10 kHz, 60 °C) and minimal ESR is 2.4 m Ω . The new DC-link capacitors are designed for a maximum hotspot temperature of 105 °C. The plastic housing corresponds to UL 94 V-0.

Depending on the model, the dimensions are between 35 mm x 53 mm and 60 mm x 120 mm. Due to their relatively tall insertion height compared with cubic capacitors, the new DC-link capacitors have low footprint requirements on the PCB in relation to their capacity. All models in the new series feature five pins, which ensures high current capability as well as high stability on the PCB.

Typical areas of application include frequency converters for drives, converters for photovoltaic and air conditioning systems and critical UPS systems.

Main fields of application

- Frequency converters for drives
- Converters for photovoltaic and air conditioning systems as well as UPS systems

Main features and benefits

- Rated voltage of 450 V DC to 1300 V DC
- Capacitance range from 6.5 μ F to 260 μ F
- Compact dimensions of 35 mm x 53 mm and 60 mm x 120 mm
- Minimal space requirements on the PCB

About TDK Corporation

TDK Corporation, headquartered in Tokyo, Japan, is a leading global supplier of electronic solutions for a smart society. In keeping with its motto of 'Attracting Tomorrow', TDK uses its comprehensive materials expertise to help transform society from the pinnacle of technological progress. The company was founded in 1935 to market ferrites, which are key materials in the production of electronic and magnetic products. TDK's comprehensive, innovation-driven product range covers everything from passive components such as ceramic, aluminium electrolytic and film capacitors to magnetic, radio frequency, piezo and protective components. Our product portfolio also encompasses sensors and sensor-based systems, including temperature and pressure sensors as well as magnetic and MEMS sensors. TDK also provides voltage supplies, energy-related components, magnetic heads and more. Our products are sold under the brand names TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK's business is focused on demanding markets in the automotive,

industrial and consumer electronics sectors, as well as ICT (Information and Communications Technology). The company has R&D and manufacturing facilities as well as sales offices in Asia, Europe and North and South America. In the 2021 financial year, TDK achieved a turnover of USD 13.3 billion and employed around 129,000 people worldwide.

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