

 Press Information

Film Capacitors

TDK presents DC-link capacitors rated for up to +135 °C in automotive and industrial applications

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TDK Corporation (TSE: 6762) presents the B3272*A/G/T series of DC-link film capacitors. These are qualified for continuous operation at case temperatures of up to +135 °C, with no derating required up to +105 °C. These components feature an [EPN dielectric](#). This blend of polypropylene (PP) and cyclic olefin copolymer (COC) has already been proven in TDK's ModCap UHP power capacitors. This allows DC-link designs for demanding automotive and industrial power electronics applications to have greater thermal headroom.

On-board charging units, xEV traction inverters, DC-DC converters, industrial drives, and high-end power supplies must operate reliably even as power density increases, in confined spaces, and at higher ambient temperatures. These constraints subject passive components to growing thermal and electrical stress. The B3272*A/G/T series is designed to meet the demands of such applications.

The series spans rated DC voltages from 800 to 1200 V and rated capacitance values from 1.0 to 60 µF, with three lead spacings: 27.5 mm, 37.5 mm, and 52.5 mm (B32728G, 4-pin). The 4-pin G-types support low-inductance busbar interfaces and help reduce parasitic loop area in fast-switching inverter stages, while the low-profile T variant addresses height-constrained layouts in compact automotive and industrial assemblies.

The flame-retardant plastic case and epoxy resin sealing both comply with UL 94 V-0. The series is AEC-Q200E qualified and RoHS-compatible, supporting global use in automotive and industrial converters where thermal headroom, reliability, and compact integration must be optimized together.

For the B3272*A/G/T series, TDK provides various [SPICE model libraries](#) and the web-based [Capacitor Life And Rating Application \(CLARA\)](#) tool.

Main applications

DC-link solutions in demanding applications like

- xEV traction inverters
- on-board chargers
- automotive DC-DC converters
- industrial drives
- high-end power supplies

Main features and benefits

- Maximum operating temperature +135 °C
- No derating up to +105 °C
- High CV product, compact
- 2-pin and 4-pin versions; low-profile variant available
- Good self-healing properties
- Overvoltage capability
- Low losses with high current capability
- Long useful life (100 000 h at V_R and +85 °C)
- AEC-Q200E qualified
- RoHS-compatible

Type	Rated voltage V_R [V]	Rated capacitance C_R [μF]	$I_{RMS,max}$ (+85 °C, 10 kHz) [A]	No. of pins	Lead spacing [mm]	Case height [mm]
B32724A	800 ... 1200	1.0 ... 12.0	3.5 ... 13.5	2	27.5	19.0 ... 36.5
B32726A		2.0 ... 12.0	4.3 ... 10.0	2	37.5	22.0 ... 32.5
B32726T		2.7 ... 9.0	5.2 ... 8.0	2	37.5	15.0 ... 19.0 (low profile)
B32726G		6.0 ... 40.0	9.0 ... 24.0	4	37.5	37.0 ... 48.0
B32728G		20.0 ... 60.0	16.5 ... 24.0	4	52.5	45.0 ... 50.0

About TDK Corporation

TDK Corporation (TSE:6762) is a global technology company and innovation leader in the electronics industry, based in Tokyo, Japan. With the tagline “In Everything, Better” TDK aims to realize a better future across all aspects of life, industry, and society. For over 90 years, TDK has shaped the world from within; from the pioneering ferrite cores to cassette tapes that defined an era, to powering the digital age with advanced components, sensors, and batteries, leading the way towards a more sustainable future. United by TDK Venture Spirit, a start-up mentality built on visions, courage and mutual trust, TDK’s passionate team members around the globe pursue better—for ourselves, customers, partners, and the world. Today, the state-of-the-art technologies of TDK are in everything, from industrial applications, energy systems, electric vehicles, to smartphones and gaming, at the core of modern life. TDK’s comprehensive, innovative-driven portfolio includes cutting-edge passive components, sensors and sensor systems, power supplies, lithium-ion and solid-state batteries, magnetic heads, AI and enterprise software solutions, and more—featuring numerous market-leading products. These are marketed under the product brands TDK, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SenseEI, and ATL. Positioning the AI ecosystem as a key strategic area, TDK leverages its global network across the automotive, information and communication technology, and industrial equipment sectors to expand its business in a wide range of fields. In fiscal 2026, TDK posted total sales of USD 16.6 billion and employed about 107,000 people worldwide.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/260930. Further information on the products can be found at www.tdk-electronics.tdk.com/en/film_dc_link.

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