

Transformers

TDK offers compact transformers with EP 6 cores for ultrasonic applications

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TDK Corporation (TSE:6762) presents the new B78416A* series of compact EPCOS transformers with EP 6 cores for ultrasonic applications. The series comprises five types with transformation ratios between 1:1:8.42 and 1:1:15. Depending on the type, the new SMD-version transformers offer inductance values between 3 mH and 5 mH and are suitable for frequencies between 52 kHz and 300 kHz. The components are compliant with AEC-Q200, feature highly compact dimensions of just 9.0 x 7.6 x 7.1 mm and are magnetically shielded for better interference suppression. The permissible temperature range lies between -40 °C and +125 °C.

The transformers serve optimal impedance matching between the driver IC and the ultrasonic transmitter or receiver in ultrasonic applications. Typical applications include parking aids, industrial robots, drones, logistics robots, automated guided vehicles (AGVs) and systems for fill level measurement.

Main fields of application

- Parking aids
- Industrial robots
- Drones and logistics robots
- Systems for fill level measurement

Main features and benefits

- Highly compact dimensions of just 9.0 x 7.6 x 7.1 mm
- Working frequencies of between 52 kHz and 300 kHz
- Permissible temperature range of -40 °C to +125 °C
- Qualified to AEC-Q200

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2021, TDK posted total sales of USD 13.3 billion and employed about 129,000 people worldwide.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/220125.

Further information on the products can be found under [LINK](#).

Please forward reader inquiries to marketing.communications@tdk-electronics.tdk.com.

Contacts for regional media

Region	Contact	Phone	Mail
Europe	Mr. C. JEHLE TDK Electronics AG Munich, Germany	+49 89 54020 2441	christoph.jehle@tdk.com
North America	Ms. D. MARTIN TDK Electronics Inc. Fountain Hills, AZ, USA	+1 480 836 4104	debbie.martin@tdk.com
South America	Mr. C. DALL’AGNOL TDK Electronics do Brasil Ltda., Gravataí, Brazil	+55 51 3484 7158	candido.dallagnol@tdk.com
India	Mr. H. BAGHEL TDK India Private Limited Noida, India	+91 12 04 50 58 42	himalaya.baghel@tdk.com
Greater China	Ms. S. SUEN TDK Electronics Hong Kong Limited, Hong Kong	+852 3669 8224	stella.suen@tdk.com
Japan	Mr. Y. OSUGA TDK Corporation Tokyo, Japan	+813 6778 1055	pr@jp.tdk.com