

## Inductors

### Leaded RF chokes with high current capability

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TDK Corporation presents new EPCOS leaded RF chokes with high current capability. The series with designation LBC+ offers components for rated currents of up to 4450 mA at saturation currents of up to 7700 mA. This corresponds to an increase of up to 80 percent compared to previous versions. The range of inductance values of the E12 series extends from 1.0  $\mu\text{H}$  to 470  $\mu\text{H}$ . These RoHS-compatible inductors are suitable for an operating temperature range of  $-55\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$ .

The components of the LBC+ series are manufactured in both axial (B82144F2\*) and radial types (B82144B2\*). The latter have a lead spacing of 5 mm. The chokes have a length of 9.2 mm and a diameter of 6.5 mm. A flame-retardant enamel coating protects the components against environmental effects. Moreover, they are marked for identification with color rings to IEC 60062.

Thanks to their higher current capability, the new chokes can be used for diverse functions such as storage chokes for DC-DC converters as well as for noise suppression. Their possible applications include power supplies for industrial and telecommunications installations, LED and energy-saving lamps as well as consumer electronics devices.

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#### Main applications and functions

- Storage chokes in DC-DC converters
- Noise suppression
- Power supplies for industrial and telecommunications installations
- LED and energy-saving lamps
- Consumer electronics equipment

#### Main features and benefits

- High current capability of up to 4450 mA
- RoHS-compatible
- Axial and radial types available

#### Key data

Type	Inductance [ $\mu\text{H}$ ]	Rated current [mA]	Saturation current [mA]	Resonance frequency [MHz]
B82144F2* (axial)	1 to 470	600 to 4450	440 to 7700	2.3 to 200
B82144B2* (radial)				

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## 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, modules and systems\* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as 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 2014, TDK posted total sales of USD 9.6 billion and employed about 83,000 people worldwide.

\* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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