

## Products & Technologies



Power capacitors

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## Space-saving link-circuit capacitors

EPCOS has developed the Power Capacitor Chip (PCC) for link-circuit applications in industrial, automotive and medical electronics. A special feature of these capacitors is their volume fill factor of nearly 1. This is achieved thanks to stacked winding technology, which currently offers the best volume efficiency.

The series covers the capacitance range from 100  $\mu\text{F}$  to 3000  $\mu\text{F}$  at operating voltages between 100 VDC and 1000 VDC. The permissible operating temperatures are between  $-40\text{ }^{\circ}\text{C}$  and  $+105\text{ }^{\circ}\text{C}$ , but the capacitors can also withstand peak values of  $125\text{ }^{\circ}\text{C}$  for brief periods. They have a ripple current capability of up to several 100 A, depending on the type. Thanks to their extremely low series inductance of up to 20 nH, PCCs are particularly suitable for applications with fast and steep switching edges such as IGBT frequency converters. They have an operating life of about 10,000 hours.

PCCs permit a nearly unlimited variety of customer-specific designs. For example, hybrid converters in automotive electronics with highly space-saving designs can be implemented in this way.