

Ceramic capacitors

CeraLink™ series extended

November 8, 2016

TDK Corporation presents an extended range of CeraLink™ capacitors based on PLZT ceramic (lead lanthanum zirconate titanate). The low profile (LP) types for SMD soldering are now available with a voltage of 500 V and a capacitance of 1 μ F, or with 700 V and 0.5 μ F. The capacitors are characterized by their extreme volume efficiency and compactness. The dimensions of the variants with L-style terminal, for example, are 10.84 mm x 7.85 mm x 4 mm. Thanks to the compactness and the permissible maximum temperature of 150 °C, these capacitors can, for example, be embedded as snubber capacitors directly into IGBT modules.

The new types with J-style terminal have an even more compact design, with dimensions of just 7.14 mm x 7.85 mm x 4 mm. One great advantage of the CeraLink LP types is their extremely low ESL of just 2.5 nH.

The CeraLink solder-pin (SP) type is available for higher capacitance values of 20 μ F and 10 μ F for the rated voltages of 500 V and 700 V, respectively. This type has a very low ESL of just 3.5 nH.

Thanks to their low parasitic effects, CeraLink capacitors are ideally suitable for converter topologies on the basis of fast-switching semiconductors such as GaN or SiC. Voltage overshoots and ringing when switching are significantly lower than with conventional capacitor technologies. Special requirements in terms of size, current capability and temperature resistance can also be accommodated very easily with CeraLink capacitors.

Main applications

- Fast-switching converters

Main features and benefits

- Types available with voltages of 500 V and 700 V
- Low parasitic effects

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 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 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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Please forward reader inquiries to marketing.communications@epcos.com.

Contact for regional media

Region	Contact		Phone	Mail
ASEAN	Mr. K. UNTERWEGER	EPCOS Components PTE LTD SINGAPORE	+65 6597 0618	klaus.unterweger@epcos.com
Greater China	Ms. S. SUEN	EPCOS LTD HONG KONG	+852 3669 8224	stella.suen@epcos.com
Europe	Mr. C. JEHL	EPCOS Munich, GERMANY	+49 89 54020 2441	christoph.jehle@epcos.com
India	Mr. G. DALVI	EPCOS India Private Ltd. Mumbai, INDIA	+91 22 2575 0804	girish.dalvi@epcos.com
Japan	Mr. A. TESHIMA	TDK Corporation Tokyo, Japan	+813 6852 7102	pr@jp.tdk.com
North America	Ms. D. MARTIN	EPCOS Inc. Fountain Hills AZ, USA	+1 480 836 4104	debbie.martin@epcos.com
South America	Mr. C. DALL'AGNOL	EPCOS do Brasil Ltda. Gravataí, BRAZIL	+55 51 3484 7158	candido.dallagnol@epcos.com