

## Overvoltage protection

# Varistors with increased permissible operating temperature

August 8, 2017

TDK Corporation presents leaded EPCOS metal oxide disk varistors, which have now been approved for an increased operating temperature of 105 °C (previously 85 °C). The reason for this is the recertification of the B722\* series of varistors in accordance with UL 1449, 4th Edition, and IEC 61051. Raising the permissible operating temperature to 105 °C also changes the climate category from 40/85/56 to 40/105/56. The flammability of the epoxy enclosure complies with UL 94 V-0.

The monolithic EPCOS varistors are available with rated voltages of between 11 V<sub>RMS</sub> and 1100 V<sub>RMS</sub> and, depending on type, can withstand surge currents of up to 20 kA (8/20 μs). To assist in the design process, PSpice libraries are available under [www.epcos.com/tools\\_mlv](http://www.epcos.com/tools_mlv).

The varistors are very well suited for the protection of power supply and converter inputs for industrial electronics applications, as well as household appliances and telecommunication devices.

-----

### Main applications

- Power supplies and converters for industrial electronics applications, as well as household appliances and telecommunication devices.

### Main features and benefits

- Increased permissible operating temperature of 105 °C
- Wide range of rated voltages from 11 V<sub>RMS</sub> to 1100 V<sub>RMS</sub>
- High surge current capability of up to 20 kA (8/20 μs)

-----

### 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 passive components, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK's further main product groups include magnetic application products, energy devices, and flash memory application devices. TDK focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer 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 2017, TDK posted total sales of USD 10.5 billion and employed about 100,000 people worldwide.

-----

You can download this text and associated images from [www.epcos.com/pressreleases](http://www.epcos.com/pressreleases).  
 Further information on the products can be found under [www.epcos.com/varistors\\_leaded](http://www.epcos.com/varistors_leaded).  
 Please forward reader inquiries to [marketing.communications@epcos.com](mailto:marketing.communications@epcos.com).

-----

## Contacts for regional media

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