

Film capacitors

Humidity-resistant X2 EMI capacitors

- Stable capacitance values even under extremely humid conditions
- Excellent self-healing properties
- High maximum operating temperature up to +110 °C

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TDK Corporation presents a new series of EPCOS X2 EMI suppression capacitors with stable capacitance values, even under extremely humid conditions. The B3292*H/J* series for operating voltages of up to 305 V AC comprises types with rated capacitances ranging from 0.1 µF to 15 µF and lead spacings from 15 mm to 37.5 mm. The operating temperature range is from -40 °C to +110 °C. In addition, the capacitors, which employ a metallized polypropylene dielectric (MKP), also feature excellent self-healing properties that allow weak dielectric areas to be burned out in the event of overvoltages.

The robust capacitors perform reliably under severe ambient conditions, easily passing the damp heat test. Here, they must operate for at least 1000 hours at a temperature of 85 °C, a relative humidity of 85 percent and a voltage of 240 V AC without a change in capacitance of 10 percent or more. Thus, the new X2 capacitors are perfectly suited for applications in harsh environments, such as the capacitive power supplies in outdoor energy meters, for example, and in across-the-line industrial applications.

Glossary

- X2 capacitors: Appliance Class II capacitors used to reduce or suppress EMI and provide protection against electrical shocks in across-the-line (X) connections.

Main applications

- Capacitive power supplies in outdoor energy meters
- Across-the-line industrial applications

Main features and benefits

- Stable capacitance values even under extremely humid conditions
- Excellent self-healing properties
- High maximum operating temperature up to +110 °C

Key data

Type	Lead spacing [mm]	Rated capacitance [μ F]	Rated voltage [V AC] *	Operating temperature [$^{\circ}$ C]
B32922H/J*	15.0	0.1 to 0.47	305	-40 to +110
B32923H/J*	22.5	0.22 to 2.2		
B32923H/J*	27.5	0.68 to 4.7		
B32926H/J*	37.5	2.2 to 15		

* IEC 60384-14

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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