

Power line EMC filters

Compact single-phase EMC filter RSEV series that offers improved connectivity

July 20, 2017

TDK Corporation announces the TDK-Lambda brand of the Power Line EMC filter RSEV series. The new product is a compact single-phase EMC filter, covering a wide range of applications with 25db minimum attenuation. TDK-Lambda Corporation will begin shipping in August 2017.

The RSEV features an integrated terminal block and main body with captive connection screws which simplifies installations and eliminates the possibility of dropped or lost parts.

The product has a rated voltage of 250 V (AC/DC) and a lineup of models with a rated current of 6, 10, 16, 20, and 30 A. The RSEV series carries EN60939-3, UL1283 and CSA C22.2 No8 safety approvals. A DIN rail mounting attachment will be also available.

Downsizing of the product has also been realized with a size reduction of approximately 37% and a weight reduction of approximately 34% compared to the previous models (RSEN series, 30 A model).

Main applications

- AC and DC power lines for general industrial equipment

Main features and benefits

- Captive connecting screws
- Integrated terminal block cover and main body
- DIN rail mounting attachment will be available (separately)

Key data: RSEV series

Model	RSEV-2006	RSEV-2010	RSEV-2016	RSEV-2020	RSEV-2030
Rated voltage (AC/DC)	250 V				
Rated current	6 A	10 A	16 A	20 A	30 A
Withstand voltage	2500 VAC 60 s (Line - Earth)				
Insulation resistance	100 MΩ Min. (500 VDC/1 min)				
Leakage current	1 mA Max. (250 VAC/60 Hz)				
Operating temperature range	-25 to +85°C				
With derating over	+55°C				
DC resistance	110 mΩ Max.	40 mΩ Max.	20 mΩ Max.	10 mΩ Max.	6 mΩ Max.
Attenuation frequency range [MHz] (Common mode / 25 dB guaranteed)	0.1 to 30	0.2 to 30	0.6 to 30	0.8 to 30	2 to 30
Attenuation frequency range [MHz] (Differential mode / 25 dB guaranteed)	0.2 to 30	0.2 to 30	0.3 to 30	0.4 to 30	0.5 to 30
Safety	UL1283, CSA C22.2 No. 8, EN60939-3				
Weight (Typ.)	150 g				
Size (W × H × D)	85 × 30 × 39 mm				

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.

About TDK-Lambda Corporation

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia. For more details, please pay a visit to <http://www.tdk-lambda.com>

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