

EMC Filter

Compact 10A EMC Filter is suitable for use with DC-DC Converters

November 2015

TDK Corporation announces the introduction of the printed circuit board mount DC input TDK-Lambda iDQ48010A480V EMC filter. Designed to reduce emissions from high frequency DC-DC converters, the high on-board capacitance minimizes the need for additional external components and provides exceptional differential mode filtering.

The iDQ filter can be used with voltages up to 75Vdc, is rated at 10A and will operate at full current with natural convection in ambient temperatures between -40 to +85°C. Differential mode attenuation at 300 kHz is 63dB with a 50Ω source & load impedance. The package size is just 50mm long, 15mm wide and 10.8mm high.

The iDQ takes advantage of TDK component technology and helps simplify system level compliance with FCC and CISPR standards. The filters have 1500Vdc input/output to ground isolation, allowing them to be used with either positive or negative grounded systems. An additional pin is provided to connect additional capacitance to increase common mode attenuation.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/idq-series>, or by calling 800-LAMBDA-4. Product availability for the iDQ filter can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock to Buy") at <http://www.us.tdk-lambda.com/lp/>.

Major applications

Input filtering for board mount DC-DC converters
Test and measurement, datacom and telecom equipment

Main features and benefits

- Compact package size
- High differential mode attenuation
- Additional capacitance can be easily added to improve common mode attenuation
- Board mount for operation with use DC-DC converters

Major specifications

Model		iDQ48010A480V
Input voltage range	Vdc	0 to 75VDC
Maximum Rated Current	A	10A
Attenuation	dB	63dB at 300 kHz
Cooling	-	Convection or forced air
Operating Ambient Temperature	°C	-40 to +85°C
Size (L x W x H)	mm	50 x 15 x 10.8mm

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* which are 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 2015, TDK posted total sales of USD 9.0 billion and employed about 88,000 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.

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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