

48Vdc 50A EMC Filter

https://product.tdk.com/en/search/emc/emc/power-line/info?part_no=RDEN-048050
<https://www.emea.lambda.tdk.com/uk/products/r-series>


Industrial


Test


LED


COMM


Broadcast



The cost effective RDEN EMC filter is enclosed in a compact, low profile metal case and is rated at up to 76Vdc at 50A. The filter uses TDK's ferrite core material to provide high noise attenuation over a wide frequency range. Major applications for the filter are ITE (Information Technology Equipment) and telecommunications. Terminations are made via the product's large studs for easy connection. The filter is certified to EN60939 -1/-2.

Features	Benefits
• Wide Frequency Range	• Assists Compliance to Common Standards
• High Noise Attenuation	• Greater Noise Reduction
• Large Termination Studs	• Easier Connection
• Low Profile	• Space Saving in Cabinets

Model Selector				
Model	Rated Current (A)	Maximum DC Resistance (mΩ)	Attenuation frequency range (MHz)	
			Common mode at 30dB	Differential mode at 25dB
RDEN-048050	50	3	0.2 to 10	0.7 to 30

RDEN	-	048	050
Series Name		Rated Voltage 048 = 48Vdc	Rated Current 050 = 50A

Specification

Model

Input

Rated Voltage	Vdc	76 maximum
Safety Certifications and Markings	-	EN60939-1, -2, conforms to RoHS Directive

Environmental

Operating Temperature	°C	-30 to +85, derating above 55. See derating curve below
Storage Temperature	°C	-30 to +85
Humidity (non condensing)	%RH	Operating 30 - 95 and storage 10 - 95
Cooling	-	Convection
Withstand Voltage	Vdc	1,500 input to earth, 100 between terminals
Isolation Resistance (For 1 minute)	MΩ	>500 at 500Vdc
Vibration	-	10-55Hz Amplitude 1.5mm, Sweep for 1 min. X, Y and Z directions for 2 hours each

Other

Weight (Typ)	g	310
Size (LxWxH)	mm	116 x 60 x 30 (including studs)
Size (LxWxH)	Inches	4.57 x 2.36 x 1.18 (including studs)
Connectors	-	M5 studs
MIL-HDBK-217F NOTICE2	Hours	11,598,237
Warranty	Years	5

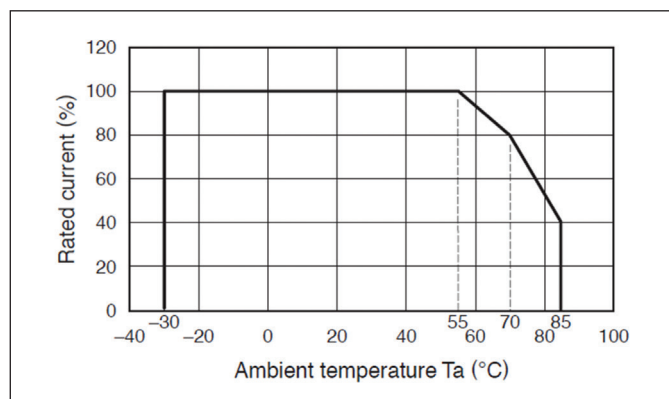
*Notes

See website for detailed specifications, test methods and installation manual

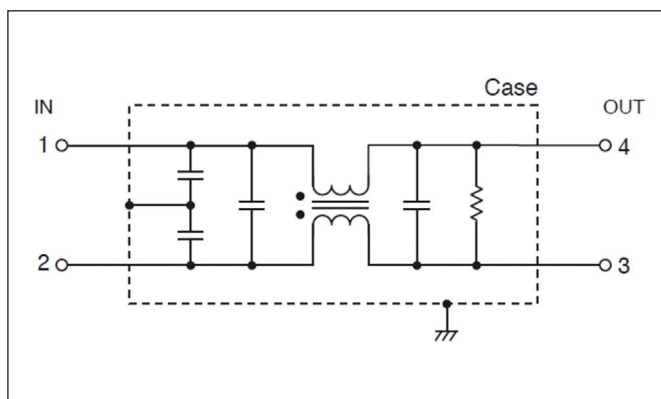
[RDEN technical files](#)

Mechanical Specification

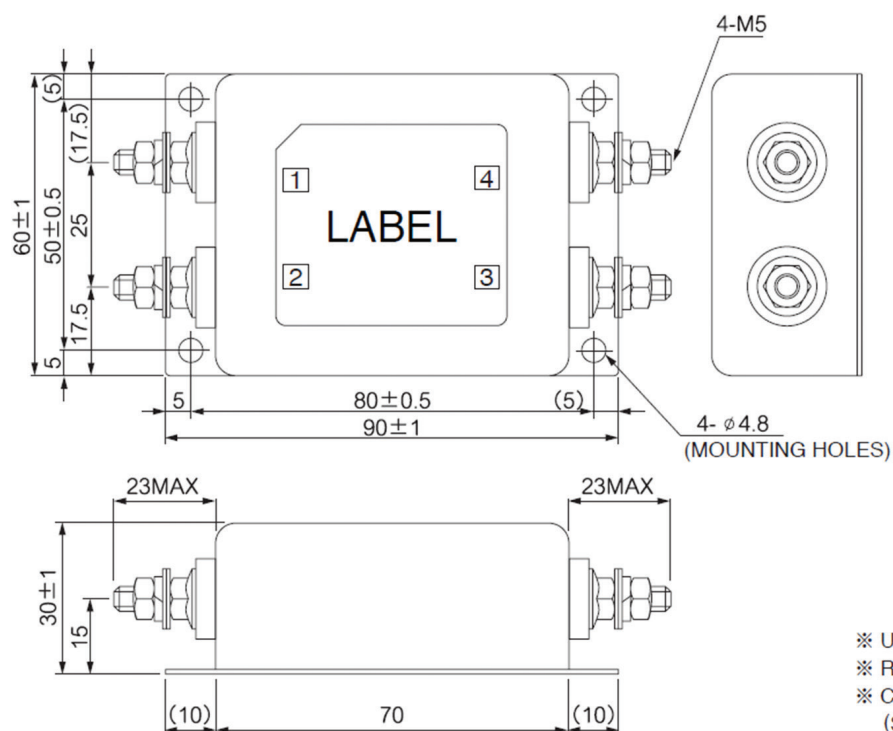
Derating Curve



Schematic

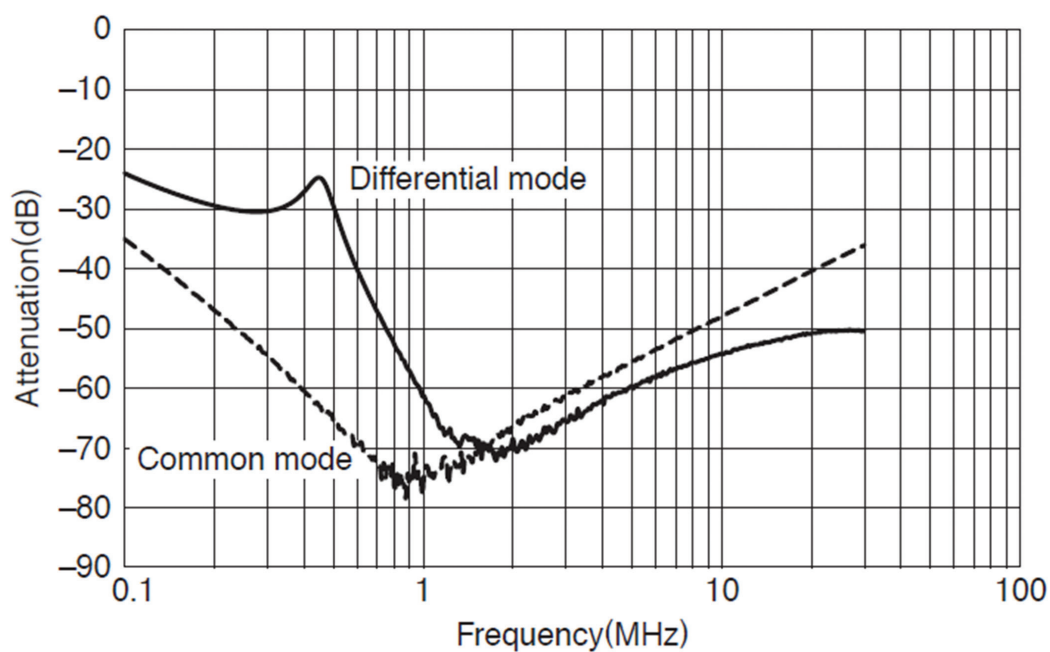


RDEN Outline Drawing



RDEN Attenuation vs. Frequency

RDEN-048050



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