



2-Line Filter

B Series

Series/Type: With Screw or Tab Connector at Output
Ordering code: B84811-B

Date: 2006-01-27
Version: A.0

2-Line Filter

B84811-B

B Series

With Screw or Tab Connector at Output

Preliminary data

Rated voltage 115/250 V AC, 50/60 Hz

Rated Current 6 to 100A

Construction

- 2-line filter with screw or tab connector
- Metal case

Features

- Good attenuation performance to eliminate the common-mode and differential-mode EMI from the line-line and line-ground
- Wide frequency covering from 10kHz to 30MHz
- Excellent performance of high and low frequency
- Low leakage current
- Wide-choices of housing-styles available
- UL approval



Applications

- Switch mode power supplies
- Commercial terminals
- Industrial electronics
- Measuring instruments

Terminals (at output)

- Screw or tab connector

Marking

Marking on component:

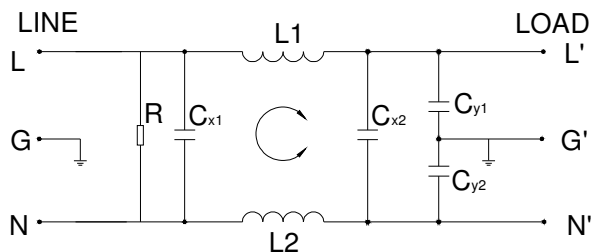
- Manufacturer's logo, ordering code
- Rated voltage, rated current
- Date code

Minimum marking on packaging:

- Manufacturer's logo, ordering code

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Typical circuit diagram

Technical data

Rated voltage V_R	250/115 V AC, 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_P	1768 V DC, 1 min (line/line), 2000 V AC, 1 min (lines/case)
Leakage current I_{leak} (at 250 V AC, 50 Hz)	< 0.5 mA
Climatic category	In accordance with EN 60068-1 25/085/21 (– 25 °C/+ 85 °C/21 days damp heat test)

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Characteristics and ordering codes

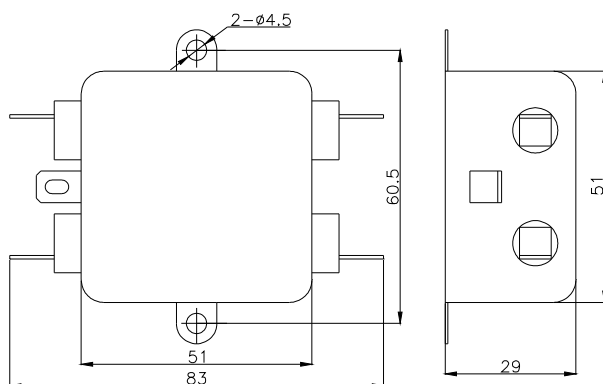
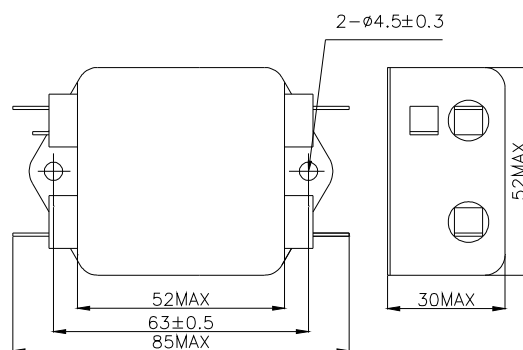
IR	CR	LR	Ordering code	Approvals 
6A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×2.0mH	B84811-B0006-A002	x
10A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×0.66mH	B84811-B0010-A001	x
20A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×0.50mH	B84811-B0020-A002	x
6A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×2.0mH	B84811-B0006-A001	x
10A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×0.66mH	B84811-B0010-A002	x
20A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×0.50mH	B84811-B0020-A003	x
30A	2×0.22uF(X2)+ 2×4700pF(Y2)	2×0.30mH	B84811-B0030-G001	x
35A	2×1uF(X2)+ 2×4700pF(Y2)	2×0.60mH	B84811-B0035-G001	x
50A	2×1uF(X2)+ 2×4700pF(Y2)	2×0.30mH	B84811-B0050-G001	x
60A	2×1uF(X2)+ 2×4700pF(Y2)	2×0.40mH	B84811-B0060-G001	x
100A	2×1uF(X2)+ 2×4700pF(Y2)	2×0.25mH	B84811-B0100-G001	x

x = approval granted

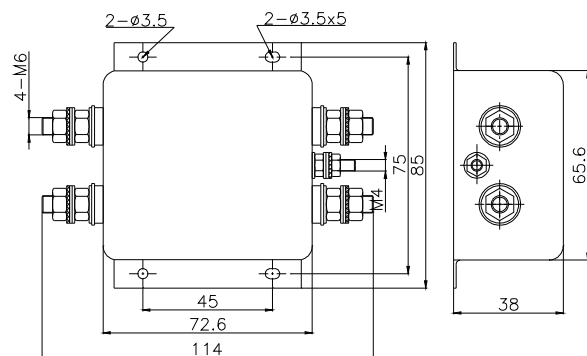
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B84811-B
B Series
With Screw or Tab Connector at Output

Preliminary data

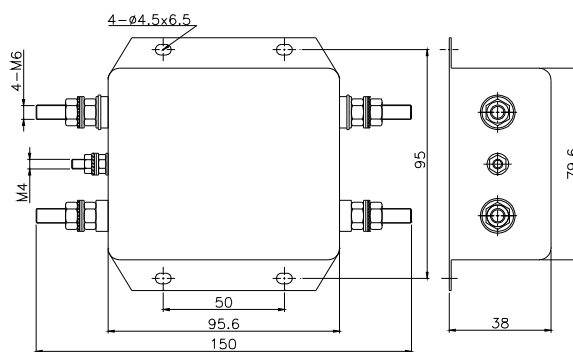
Dimensional drawing (unit: mm)

B84811-B0006-A001, B84811-B0010-A002,
B84811-B0020-A003

B84811-B0006-A002, B84811-B0010-A001,
B84811-B0020-A002


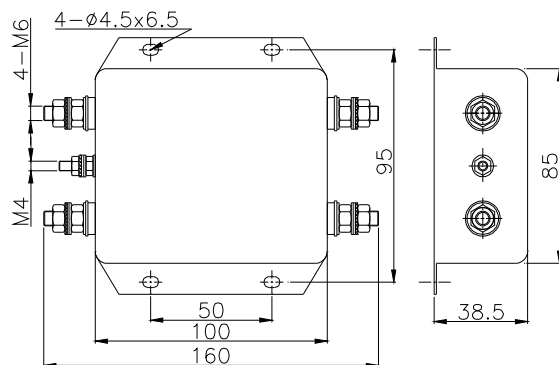
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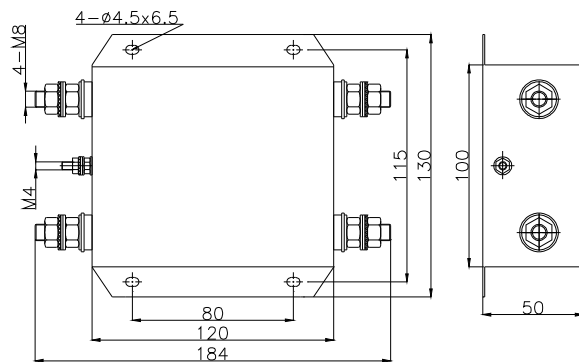
B84811-B0035-G001, B84811-B0060-G001



B84811-B0050-G001

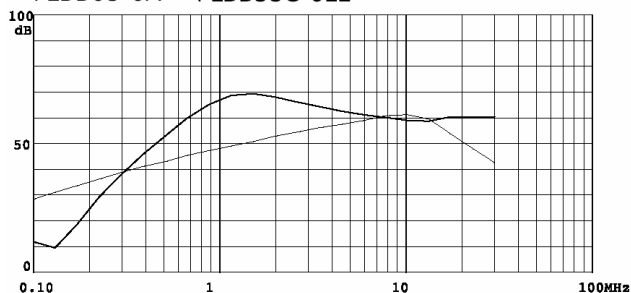
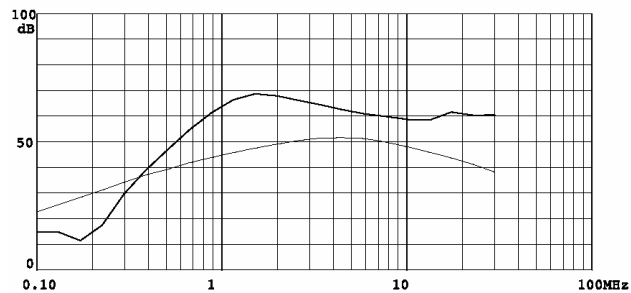
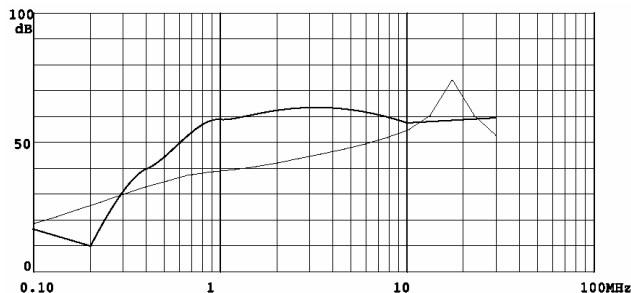
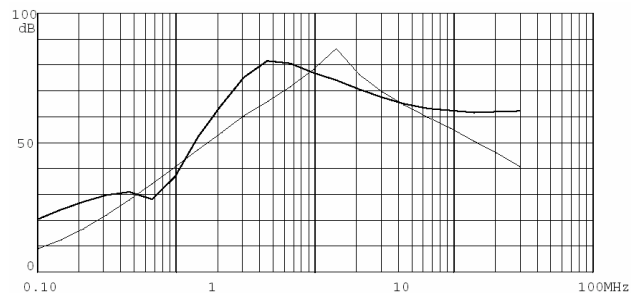
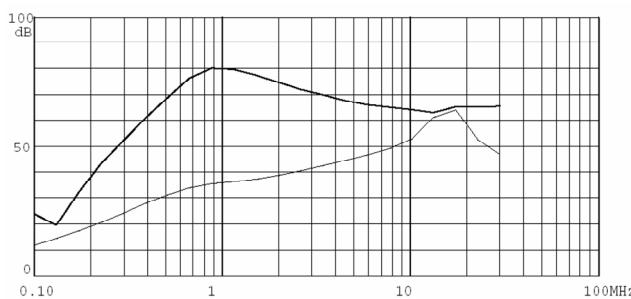
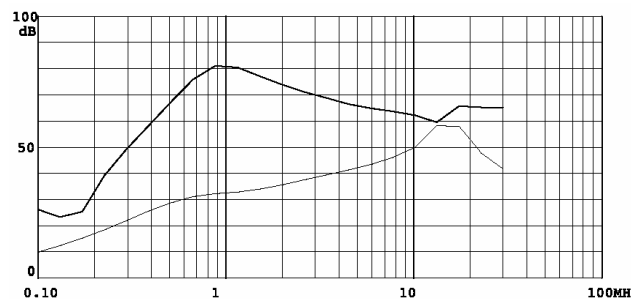
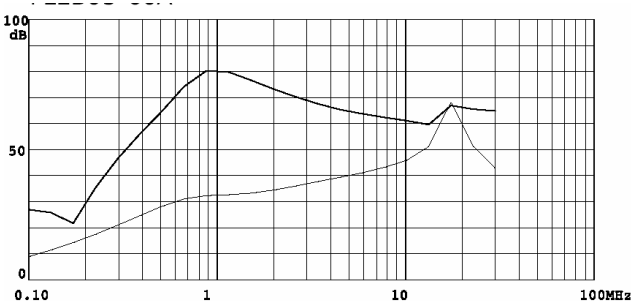
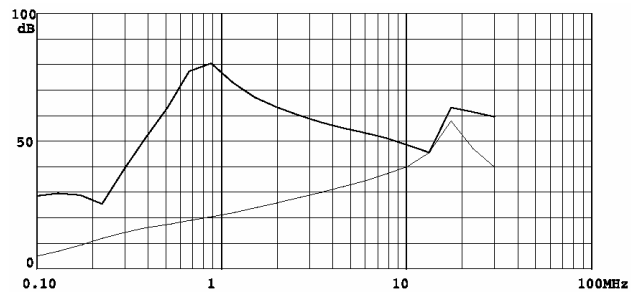


B84811-B0100-G001



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Insertion loss (Per CISPR 17 typical values at $Z=50\ \Omega$)
— Common Mode — Differential Mode
B84811-B0006-A001, B84811-B0006-A002

B84811-B0010-A001, B84811-B0010-A002

B84811-B0020-A002, B84811-B0020-A003

B84811-B0030-G001

B84811-B0035-G001

B84811-B0050-G001

B84811-B0060-G001

B84811-B0100-G001


Preliminary data

Cautions and warnings

Important information

Please read all safety and warning notes through carefully before installing the EMC filter and putting it into operation. The same applies to the warning signs on the filter. Please ensure that the signs are not removed nor their legibility impaired by external influences.

Death, serious injury and major damage to equipment may occur if the appropriate safety measures are not carried out or the warnings in the text are not observed.

Appropriate use

The EMC filters may only be used as intended and within the specified limits in low-voltage networks in compliance with the instructions given in the data sheets and the data book. The conditions at the place of application must comply with all specifications for the filter used.

Caution

EMC filters can carry dangerous voltages. Death, serious injury or major damage to equipment and property may result if the warnings and instructions in the data book are ignored.

It should be ensured that only qualified persons (electricians as defined for the respective application) are engaged on work such as planning, assembly, installation, operation, repair and maintenance. They must be provided with the corresponding documentation.

Danger of electric shock. EMC filters contain components that store an electric charge. Dangerous voltages can continue to exist at the filter terminals for longer than five minutes even after the power has been switched off.

The protective earth connections should be the first to be made when the EMC filter is installed and the last to be broken at de-installation. Depending on the magnitude of the leakage currents, the particular specifications for making the protective-earth connection must be observed.

Impermissible overloading of the EMC filter, such as with resonant circuits, impermissibly high-frequency voltage loads etc. can lead to destruction of the filter package.

EMC filters must be protected in the application against impermissible exceeding of the rated currents by suitable surge-current protection circuits

Important notes

The following applies to all products named in this publication:

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