

Power line filters for single-phase systems
Rated voltage 250 V~, 50/60 Hz
Rated current 0,5 A to 6 A

Construction

- Two-line filter
- Plastic case

Features

- High insertion loss
- For PCB mounting
- Cost-effective solution

Applications

- Medium-performance switch-mode power supplies
- Data systems, gambling machines, small-size equipment

Terminals

- Pins fitting standard PCB grid

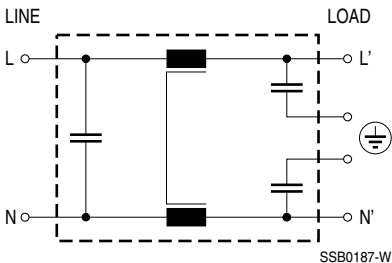
Marking

Marking on component:

 Manufacturer's logo, ordering code,
 rated voltage, rated current,
 date code

Minimum marking on packaging:

Manufacturer's logo, ordering code

Circuit diagram


2-Line Filters

B84110-A

for General Purpose Applications

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Technical data

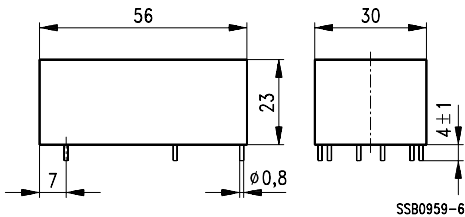
Rated voltage V_R	250 V~, 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_P	1414 V~, 2 s (line/line) 2700 V~, 2 s (lines/ground)
Leakage current I_{leak}	< 0,5 mA at 230 V~, 50 Hz
Climatic category	In accordance with EN 60068-1 25/085/21 (– 25 °C/+ 85 °C/21 days damp heat test)
Weight	approx. 53 g

Characteristics and ordering codes

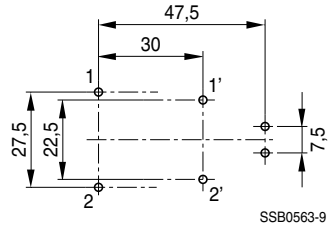
I_R A	C_R	L_R	Ordering code	Approvals		
						
0,5	0,25 µF (X2)	2 × 39 mH	B84110-A-A5	×	×	×
1	+	2 × 10 mH	B84110-A-A10	×	×	×
2	2 × 4700 pF (Y2)	2 × 5,6 mH	B84110-A-A20	×	×	×
4		2 × 2,7 mH	B84110-A-A40	×	×	×
6		2 × 1,9 mH	B84110-A-A60	—	—	—

× = approval granted

Dimensional drawing



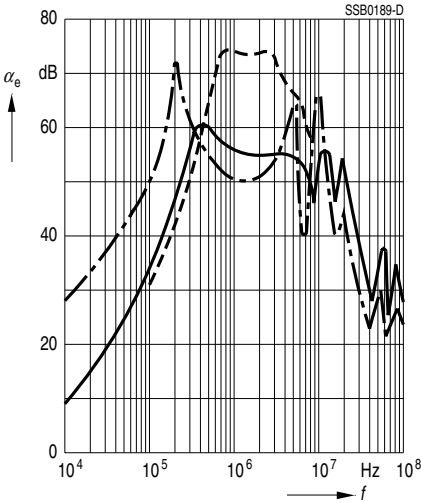
Mounting holes



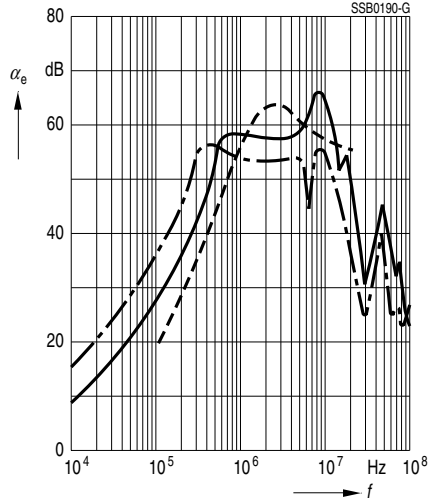
Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

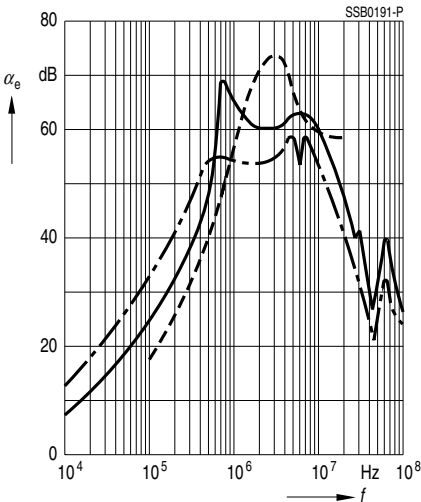
B84110-A-A5



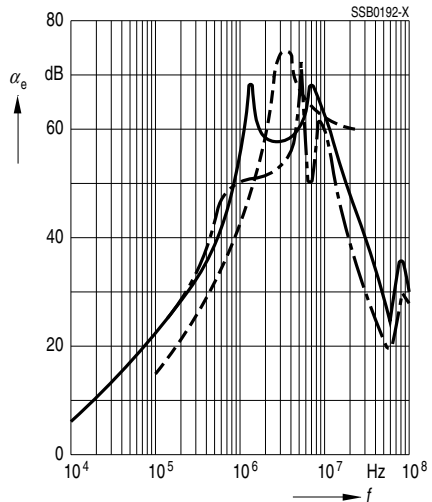
B84110-A-A10



B84110-A-A20



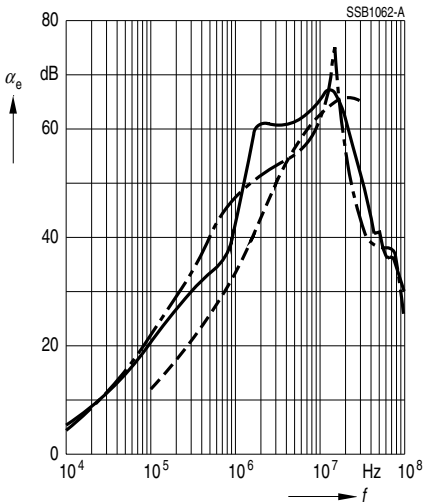
B84110-A-A40



Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

B84110-A-A60



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Herausgegeben von EPCOS AG

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