

**Power line filters for single-phase systems**  
**Rated voltage 250 V~, 50/60 Hz**  
**Rated current 1 to 6 A**



### Construction

- Plastic case
- Filter comprises current-compensated choke

### Features

- High insertion loss

### Applications

- Industrial equipment and small-size systems

### Terminals

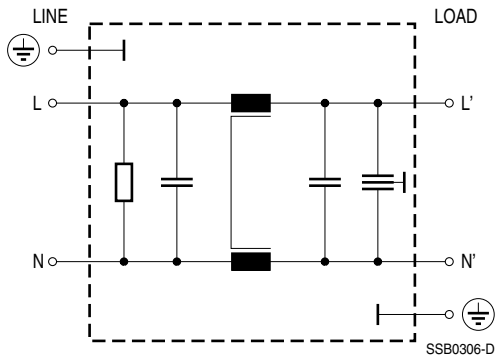
- Safe-to-touch terminal blocks

### 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



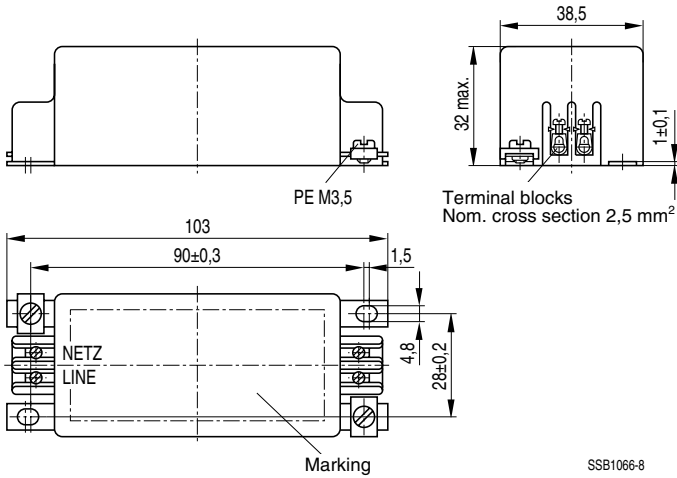
**Technical data**

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 $I_{leak}$	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. 250 g

**Characteristics and ordering codes**

$I_R$ A	$C_R$	$L_R$ mH	$I_{leak}$ mA	Ordering code
1	2 × 0,22 µF (X2) + 2 × 2500 pF (Y2)	2 × 18	< 0,5	B84102-K30
2	2 × 0,33 µF (X2) + 2 × 2500 pF (Y2)	2 × 10	< 0,5	B84102-K40
4	2 × 0,47 µF (X2) + 2 × 2500 pF (Y2)	2 × 4,7	< 0,5	B84102-K50
6	2 × 0,47 µF (X2) + 2 × 0,035 µF (Y2)	2 × 2,2	< 3,5	B84102-K160

Dimensional drawing

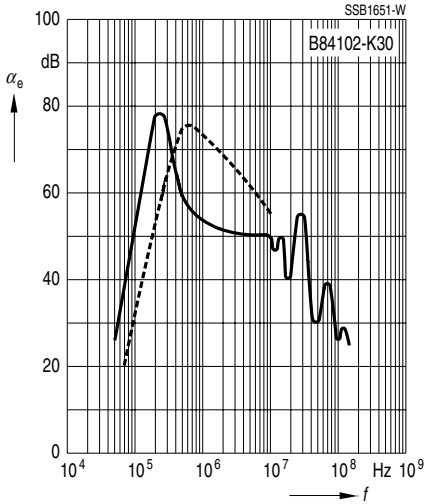


for General-Purpose Applications

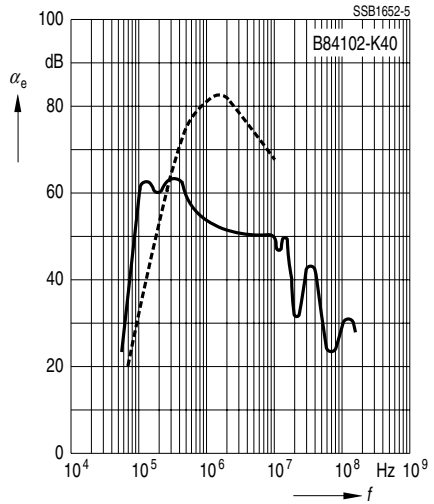
Insertion loss (typical values at  $Z = 50 \Omega$ )

- unsymmetrical, adjacent branches terminated
- - - - - differential mode (symmetrical)

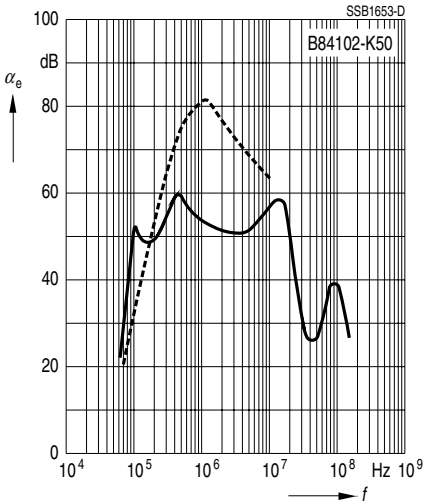
B84102-K30



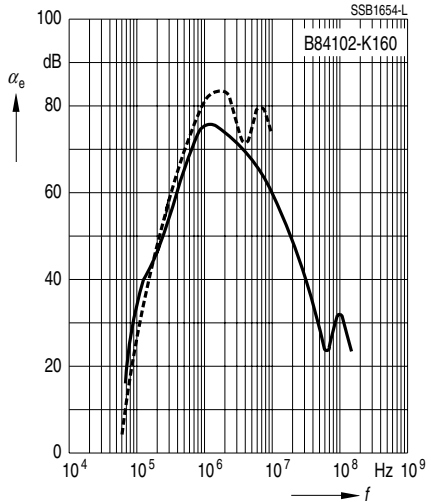
B84102-K40



B84102-K50



B84102-K160



**Herausgegeben von EPCOS AG**

**Marketing Kommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND**

© EPCOS AG 2000. Alle Rechte vorbehalten. Vervielfältigung, Veröffentlichung, Verbreitung und Verwertung dieser Broschüre und ihres Inhalts ohne ausdrückliche Genehmigung der EPCOS AG nicht gestattet.

Mit den Angaben in dieser Broschüre werden die Bauelemente spezifiziert, keine Eigenschaften zugesichert. Bestellungen unterliegen den vom ZVEI empfohlenen Allgemeinen Lieferbedingungen für Erzeugnisse und Leistungen der Elektroindustrie, soweit nichts anderes vereinbart wird.

Diese Broschüre ersetzt die vorige Ausgabe.

Fragen über Technik, Preise und Liefermöglichkeiten richten Sie bitte an den Ihnen nächstgelegenen Vertrieb der EPCOS AG oder an unsere Vertriebsgesellschaften im Ausland.

Bauelemente können aufgrund technischer Erfordernisse Gefahrstoffe enthalten. Auskünfte darüber bitten wir unter Angabe des betreffenden Typs ebenfalls über die zuständige Vertriebsgesellschaft einzuholen.

**Published by EPCOS AG**

**Marketing Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY**

© EPCOS AG 2000. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.