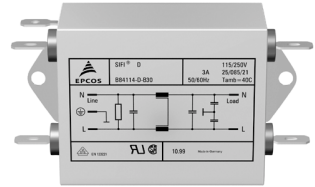


**SIFI-D for high insertion loss**  
**Rated voltage 250 V~, 50/60 Hz**  
**Rated current 1 A to 10 A**

**Construction**

- Two-line filter
- Metal case
- Polyurethane potting (UL 94 V-0)



**Features**

- Compact design
- Low leakage current
- All relevant approvals
- Cost-optimized construction
- Also for assembly on top-hat rails

**Applications**

- Switch-mode power supplies in
  - industrial electronics
  - telecommunications
  - data systems
  - medical engineering

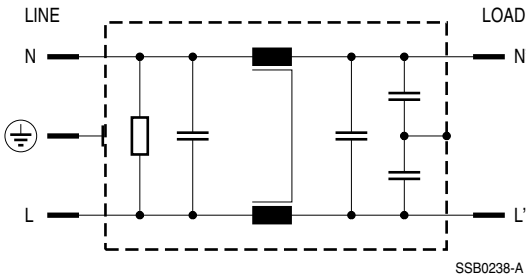
**Case styles and terminal styles**





- Case style A Tab connectors on face ends, lateral mounting tabs. Particularly suitable for mounting on a shielding wall.
- Case style B Tab connectors on face ends, mounting tabs on face ends.
- Case style K IEC connector as per IEC 60320 C 14 on line side, tab connectors on load side, mounting holes with metric thread.
- Case style L Litz wires on face ends

**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/case)
Leakage current $I_{leak}$	< 0,5 mA at 230 V~, 50 Hz
Discharge resistors	The discharge resistors are rated such that one second after having disconnected the device from the power line, the voltage at the line connector should have dropped to 34 V.
Climatic category	In accordance with EN 60068-1 25/085/21 (- 25 °C/+ 85 °C/21 days damp heat test)
Approvals	   

**Characteristics and ordering codes**

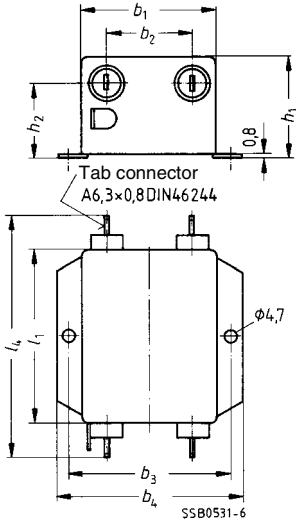
$I_R$	$C_R$	$L_R$	Case style	Appr. weight g	Ordering code	Mounting plate for top-hat rail (ordering code)
A	$2 \times 0,47 \mu\text{F (X2)}$ + $2 \times 4700 \text{ pF (Y2)}$	$2 \times 5,6 \text{ mH}$	A	150	B84114-D-A10	—
			B	150	B84114-D-B10	C62122-A132-B92
			K	210	B84114-D-K10	—
			L	150	B84114-D-L10	—
2	$2 \times 0,47 \mu\text{F (X2)}$ + $2 \times 4700 \text{ pF (Y2)}$	$2 \times 5,6 \text{ mH}$	A	150	B84114-D-A20	—
			B	150	B84114-D-B20	C62122-A132-B92
			L	150	B84114-D-L20	—
3	$2 \times 0,47 \mu\text{F (X2)}$ + $2 \times 4700 \text{ pF (Y2)}$	$2 \times 5,6 \text{ mH}$	A	150	B84114-D-A30	—
			B	150	B84114-D-B30	C62122-A132-B92
			K	210	B84114-D-K30	—
			L	150	B84114-D-L30	—
6	$2 \times 0,47 \mu\text{F (X2)}$ + $2 \times 4700 \text{ pF (Y2)}$	$2 \times 4,7 \text{ mH}$	A	230	B84114-D-A60	—
			B	230	B84114-D-B60	C62122-A132-B93
			K	290	B84114-D-K60	—
			L	230	B84114-D-L60	—
10	$2 \times 0,68 \mu\text{F (X2)}$ + $2 \times 4700 \text{ pF (Y2)}$	$2 \times 4,7 \text{ mH}$	A	420	B84114-D-A110	—
			B	420	B84114-D-B110	C62122-A132-B94
			L	420	B84114-D-L110	—

**Case styles and dimensions**

Case style	Ordering code B84114-	Dimensions in mm											
		$b_1$	$b_2$	$b_3$	$b_4$	$l_1$	$l_2$	$l_3$	$l_4$	$h_1$	$h_2$	Litz mm <sup>2</sup>	Style 1015
A	-D-A10	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-D-B10	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
K	-D-K10	50,8	—	—	—	79,5	—	—	—	32	—	—	—
L	-D-L10	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-D-A20	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-D-B20	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
L	-D-L20	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-D-A30	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-D-B30	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
K	-D-K30	50,8	—	—	—	79,5	—	—	—	32	—	—	—
L	-D-L30	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-D-A60	50,8	31,5	60,4	70	75,5	—	—	101,5	31,8	20	—	—
B	-D-B60	50,8	31,5	—	—	75,5	87,1	97	101,5	31,8	20	—	—
K	-D-K60	50,8	—	—	—	92,5	—	—	—	32	—	—	—
L	-D-L60	50,8	—	—	—	75,5	87,1	97	—	31,8	—	0,82	AWG18
A	-D-A110	see dimensional drawing											
B	-D-B110	see dimensional drawing											
L	-D-L110	50,8	—	—	—	92	103,1	113	—	44,5	—	1,35	AWG16

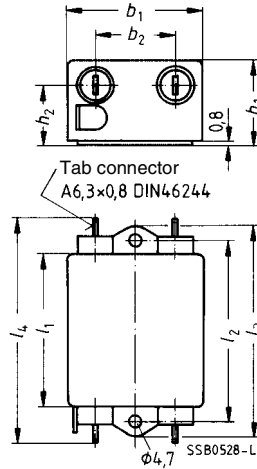
**Case style A**

B84114-D-A10 ... B84114-D-A60

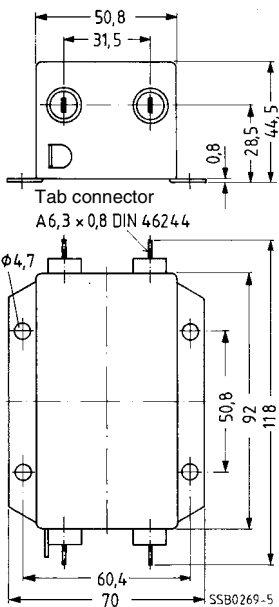


**Case style B**

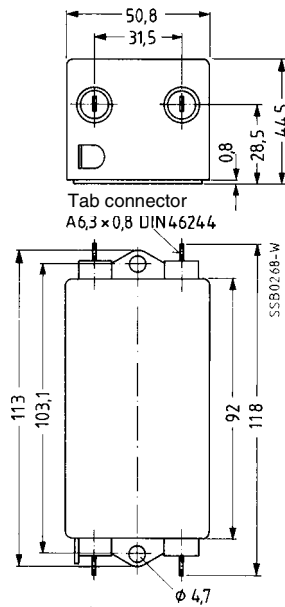
B84114-D-B10 ... B84114-D-B60



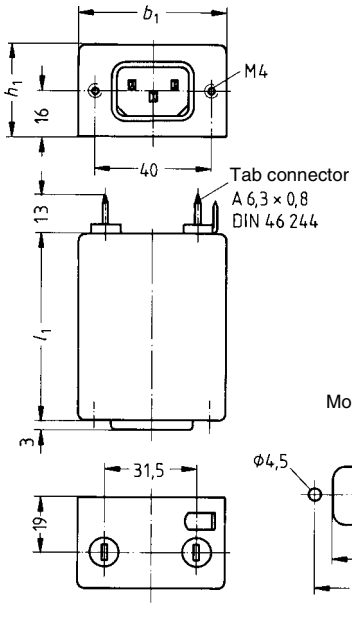
B84114-D-A110



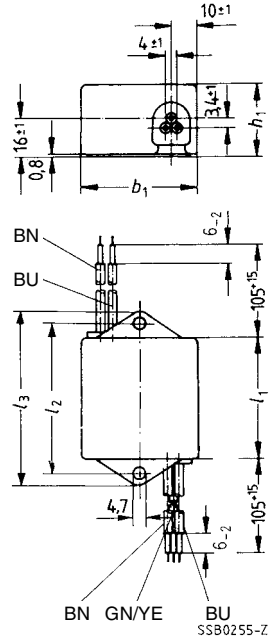
B84114-D-B110



Case style K



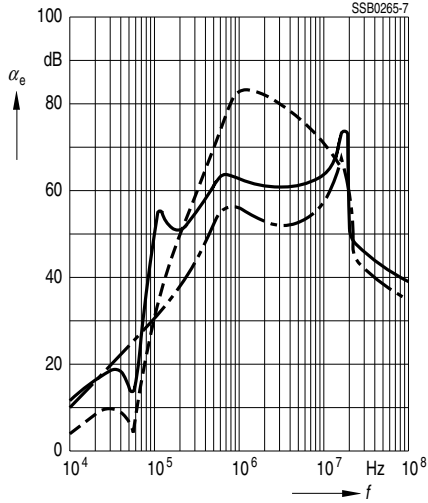
Case style L



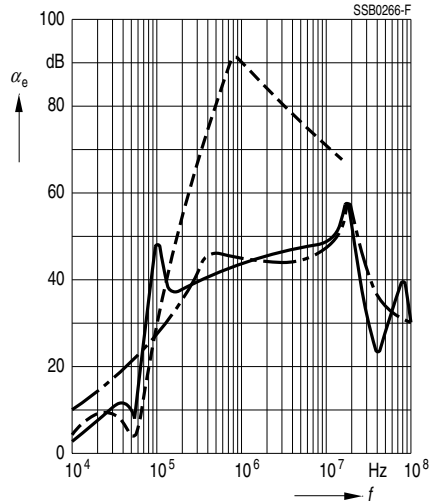
**Insertion loss** (typical values at  $Z = 50 \Omega$ )

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

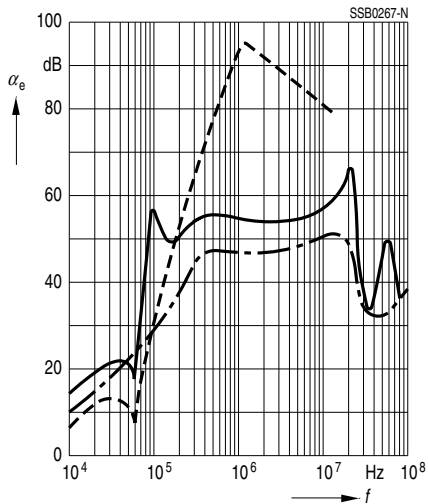
B84114-D-\*10 ... B84114-D-\*30



B84114-D-\*60



B84114-D-\*110



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