

**SIFI-C for very high insertion loss**  
**Rated voltage 250 V~, 50/60 Hz**  
**Rated current 3 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**

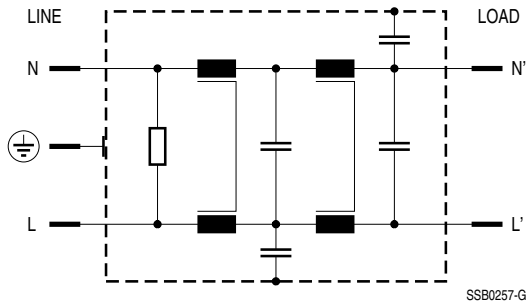
- Case style A Tab connectors on face ends, lateral mounting tabs. Particularly suitable for mounting on a shielding wall.
- Case style B Tab connectors on face ends, mounting tabs on face ends.
- Case style K IEC connector as per IEC 60320 C 14 on line side, tab connectors on load side, mounting holes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

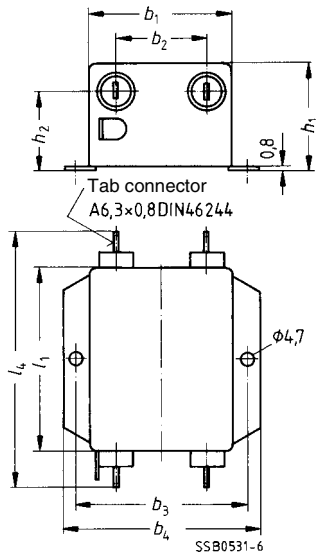
$I_R$	$C_R$	$L_R$	Case style	Appr. weight g	Ordering code	Mounting plate for top-hat rail (ordering code)
3	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 4,7 mH	A	210	B84113-C-A30	—
			B	210	B84113-C-B30	C62122-A132-B92
			K	270	B84113-C-K30	—
			L	210	B84113-C-L30	—
6	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 4,7 mH	A	510	B84113-C-A60	—
			B	510	B84113-C-B60	C62122-A132-B95
			L	510	B84113-C-L60	—
10	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 3,6 mH	A	690	B84113-C-A110	—
			B	690	B84113-C-B110	C62122-A132-B95
			L	690	B84113-C-L110	—

**Case styles and dimensions**

Case style	Ordering code B84113-	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	-C-A30	50,8	31,5	60,4	70	63,5	—	—	89,5	38,1	28	—	—
B	-C-B30	50,8	31,5	—	—	63,5	74,7	84,5	89,5	38,1	28	—	—
K	-C-K30	50,8	—	—	—	63,5	—	—	—	38	—	—	—
L	-C-L30	50,8	—	—	—	63,5	74,7	84,5	—	38,1	—	0,82	AWG18
A	-C-A60	see dimensional drawing											
B	-C-B60	see dimensional drawing											
L	-C-L60	50,8	—	—	—	133	142,9	153	—	44,5	—	0,82	AWG18
A	-C-A110	see dimensional drawing											
B	-C-B110	see dimensional drawing											
L	-C-L110	50,8	—	—	—	133	142,9	153	—	44,5	—	1,35	AWG16

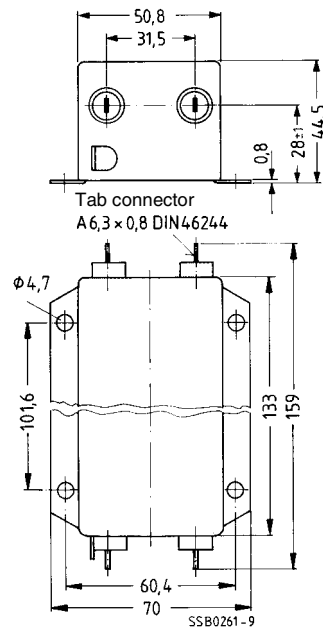
**Case style A**

B84113-C-A30


**Case style A**

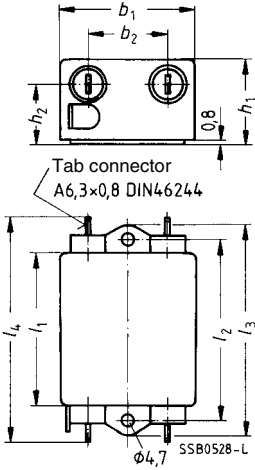
B84113-C-A60

B84113-C-A110



**Case style B**

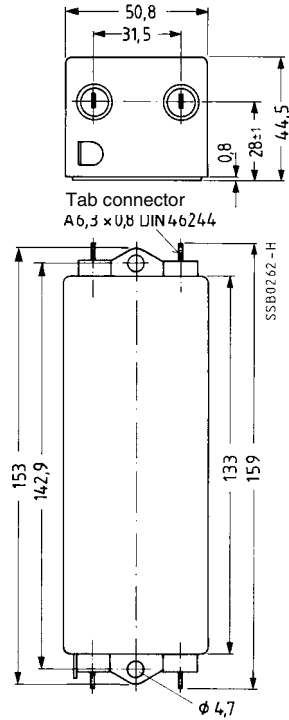
B84113-C-B30



**Case style B**

B84113-C-B60

B84113-C-B110

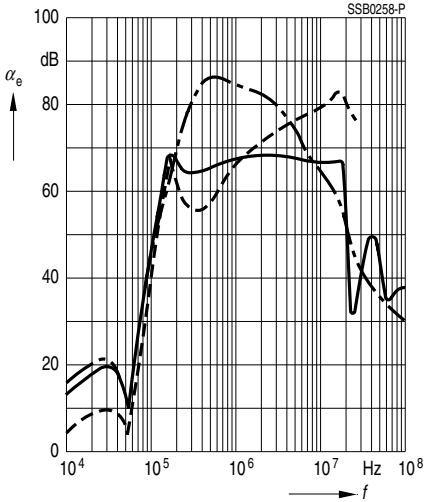




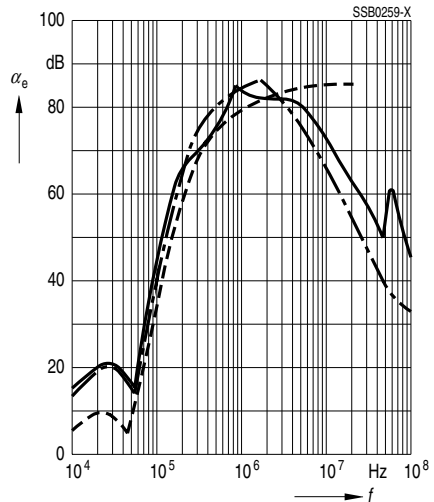
**Insertion loss** (typical values at  $Z = 50 \Omega$ )

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

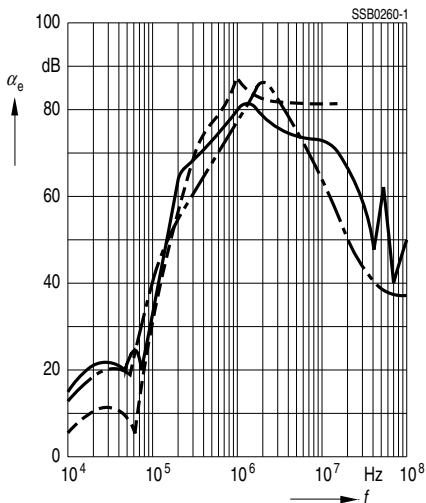
B84113-C-\*30



B84113-C-\*60



B84113-C-\*110



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