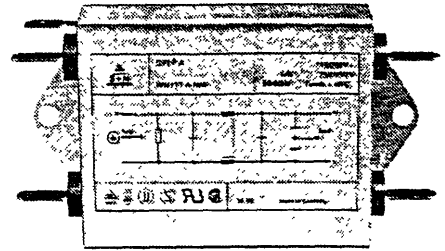


General-Purpose Filters  
SIFI-A Series

502-9001<sup>+</sup> → 503-113 B84111

SIFI-A for normal attenuation  
Rated voltage 250 Vac, 50/60 Hz  
Rated current 1 A to 20 A



Construction

- Two-line filter
- Aluminum case

Features

- Compact design
- Low leakage current
- All relevant marks of conformity
- Cost-optimized construction

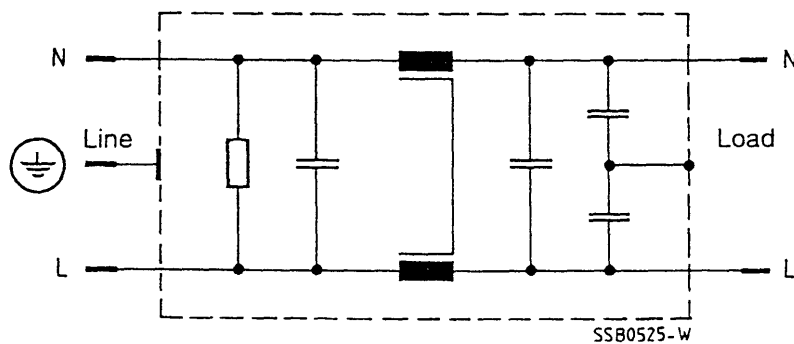
Applications

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

Terminals

Various terminal styles  
depending on case styles A, B, K, L







Circuit diagram



Technical data

Rated voltage $V_R$	250 Vac, 50/60 Hz
Rated current $I_R$	Referred to 40 °C ambient temperature
Test voltage $V_P$	1414 Vdc, 2 s (line/line) 2700 Vdc, 2 s (lines/case)
Leakage current $I_{leak}$	< 0,5 mA at 250 Vac, 50 Hz
Climatic category	In accordance with IEC 68-1 25/085/21 (- 25 °C/+ 85 °C/21 days damp heat test)

Characteristics and ordering codes

$I_R$	$C_R$	$L_R$	Case style	Appr. weight g	Ordering code	Approvals					
											
1	2 × 0,1 µF (X2) + 2 × 4700 pF (Y2)	2 × 1,5 mH	A	80	B84111-A-A10	×	×	×	×	×	×
			K	140	B84111-A-K10	×	×	×	×	×	×
2	2 × 0,1 µF (X2) + 2 × 4700 pF (Y2)	2 × 1,5 mH	A	80	B84111-A-A20	×	×	×	×	×	×
3	2 × 0,1 µF (X2) + 2 × 4700 pF (Y2)	2 × 1,5 mH	A	80	B84111-A-A30	×	×	×	×	×	×
			K	140	B84111-A-K30	×	×	×	×	×	×
			L	80	B84111-A-L30	×	×	×	×	×	×
6	2 × 0,1 µF (X2) + 2 × 4700 pF (Y2)	2 × 1,8 mH	A	110	B84111-A-A60	×	×	×	×	×	×
			B	110	B84111-A-B60	×	×	×	×	×	×
			K	140	B84111-A-K60	×	×	×	×	×	×
			L	110	B84111-A-L60	×	×	×	×	×	×
10	2 × 0,1 µF (X2) + 2 × 4700 pF (Y2)	2 × 820 µH	A	120	B84111-A-A110	×	×	×	×	×	×
			B	120	B84111-A-B110	×	×	×	×	×	×
			L	120	B84111-A-L110	×	×	×	×	×	×
20	2 × 0,1 µF (X2) + 2 × 4700 pF (Y2)	2 × 470 µH	A	210	B84111-A-A120	×	×	×	×	×	×
			B	210	B84111-A-B120	×	×	×	×	×	×

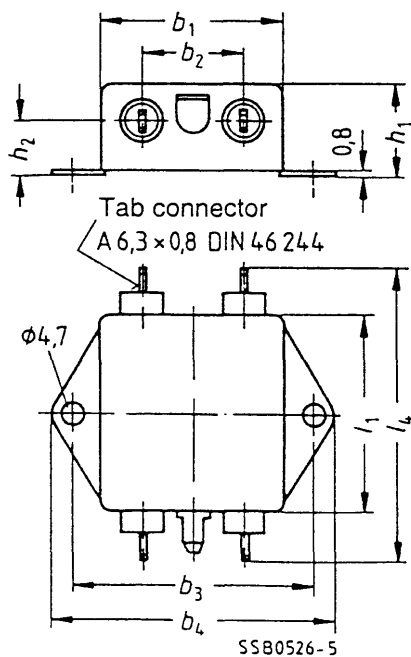
x = mark of conformity granted

Case styles and dimensions

Case style	Ordering code B84111-	Dimensions in mm										Litz mm <sup>2</sup>	Style 1015
		$b_1$	$b_2$	$b_3$	$b_4$	$l_1$	$l_2$	$l_3$	$l_4$	$h_1$	$h_2$		
A	-A-A10	45	26,5	60,4	70	50	—	—	76,5	22,3	14	—	—
K	-A-K10	51	—	—	—	63,5	—	—	—	32	—	—	—
A	-A-A20	45	26,5	60,4	70	50	—	—	76,5	22,3	14	—	—
A	-A-A30	45	26,5	60,4	70	50	—	—	76,5	22,3	14	—	—
K	-A-K30	51	—	—	—	63,5	—	—	—	32	—	—	—
L	-A-L30	45	—	60,4	70	50	—	—	—	28,6	—	0,82	AWG18
A	-A-A60	45	26,5	60,4	70	50	—	—	76,5	28,6	20	—	—
B	-A-B60	45	26,5	—	—	50	60,4	70	76,5	28,6	20	—	—
K	-A-K60	51	—	—	—	63,5	—	—	—	32	—	—	—
L	-A-L60	45	—	60,4	70	50	—	—	—	28,6	—	0,82	AWG18
A	-A-A110	45	26,5	60,4	70	50	—	—	76,5	28,6	20	—	—
B	-A-B110	45	26,5	—	—	50	60,4	70	76,5	28,6	20	—	—
L	-A-L110	45	—	60,4	70	50	—	—	—	28,6	—	1,35	AWG16
A	-A-A120	63,5	31,5	74,7	84,5	50,8	—	—	77	38,1	28	—	—
B	-A-B120	see outline drawing											

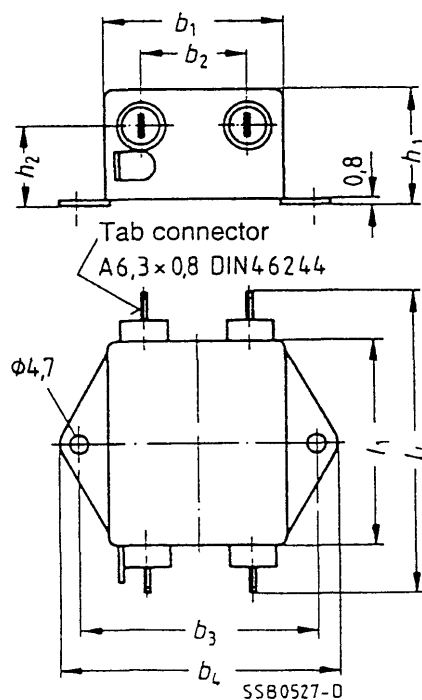
Case style A

B84111-A-A10  
B84111-A-A20  
B84111-A-A30



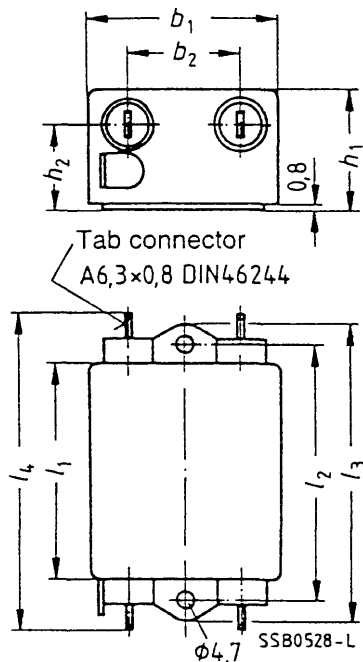
Case style A

B84111-A-A60  
B84111-A-A110  
B84111-A-A120



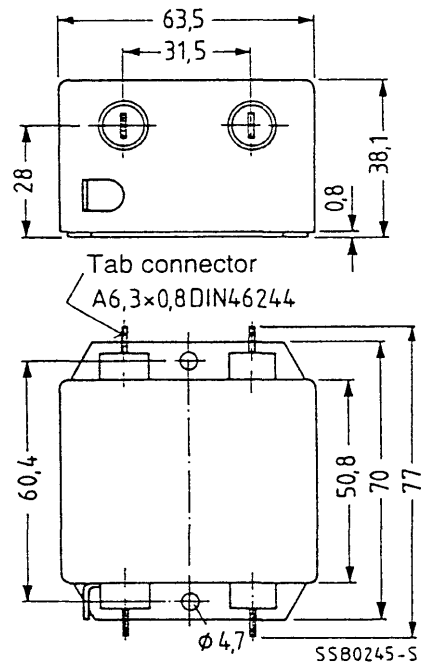
Case style B

B84111-A-B60  
B84111-A-B110

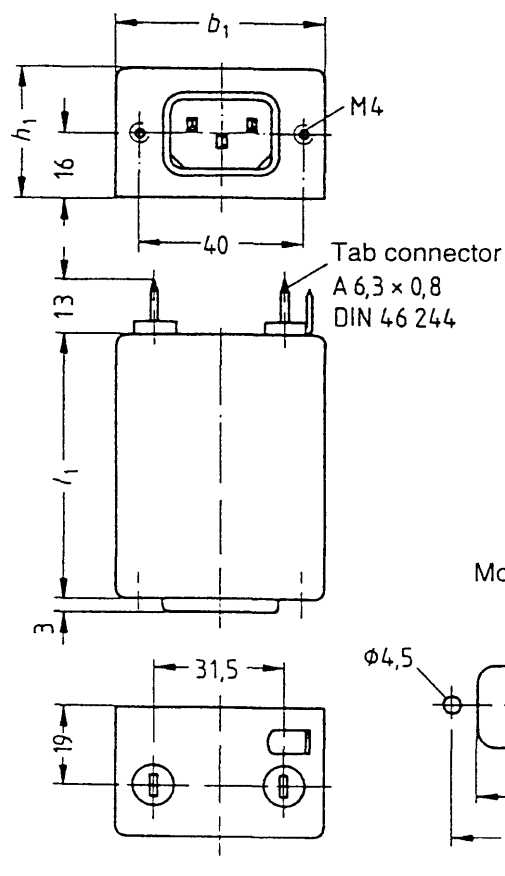


Case style B

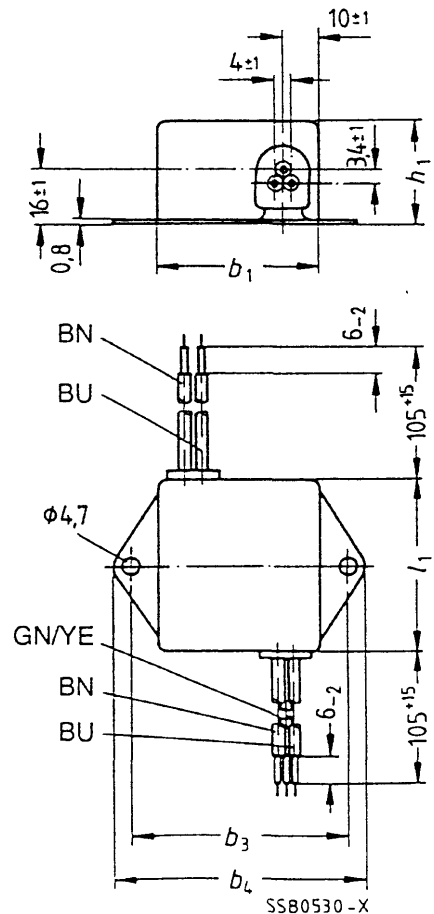
B84111-A-B120



Case style K



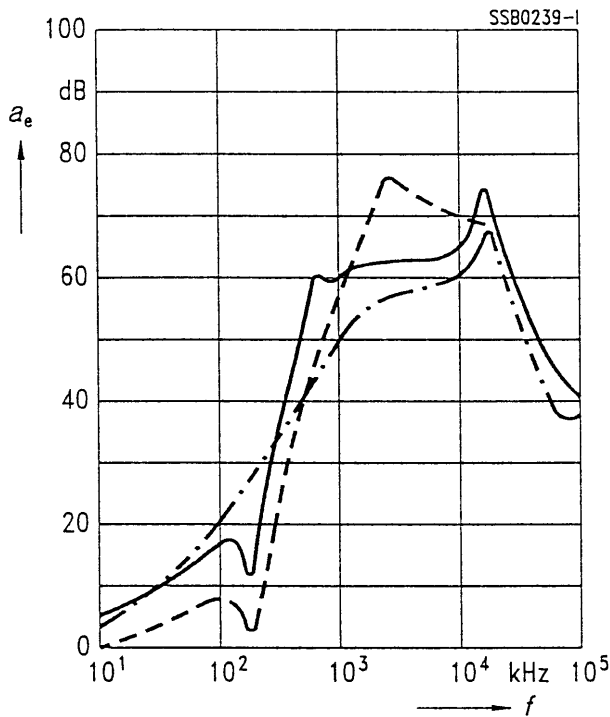
Case style L



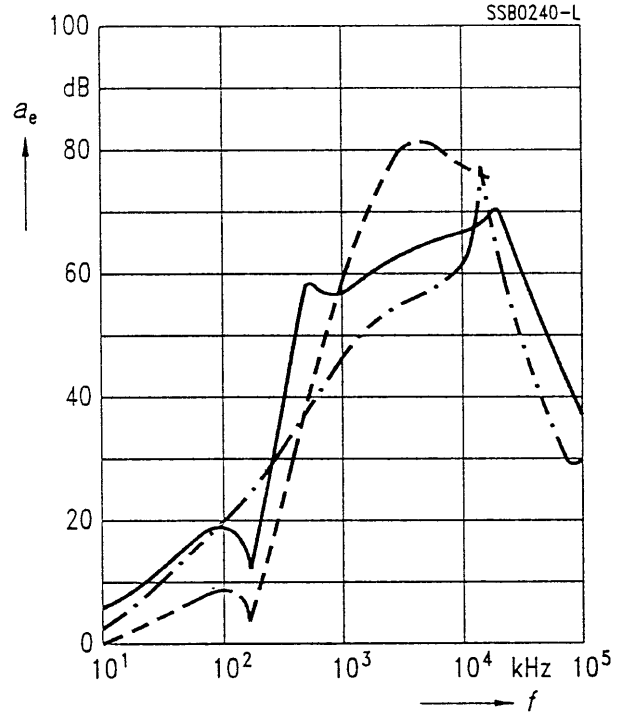
Insertion loss (typical values at  $Z = 50 \Omega$ )

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

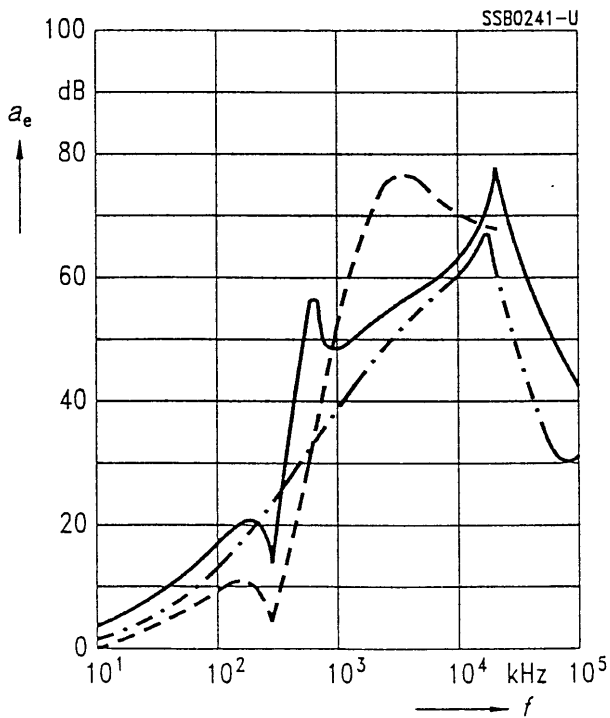
B84111-A-\*10 ... -A-\*30



B84111-A-\*60



B84111-A-\*110



B84111-A-\*120

