

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

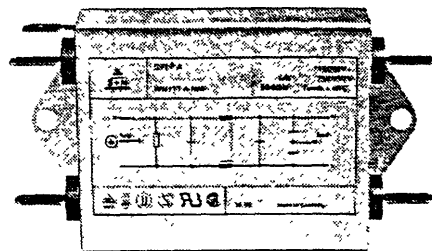
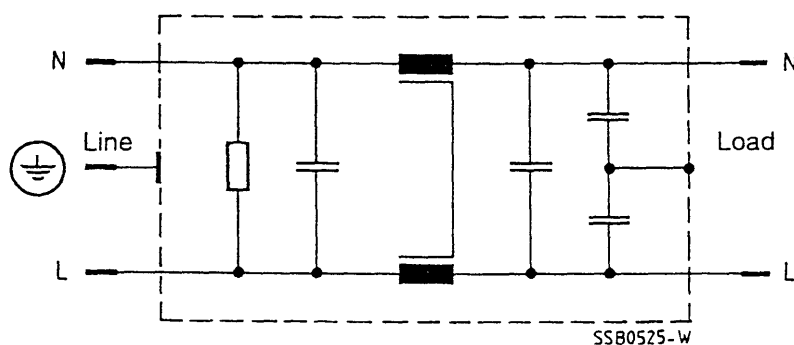
Applications

- 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					
A											
1	2 × 0,1 µF (X2)	2 × 1,5 mH	A K	80 140	B84111-A-A10	×	×	×	×	×	×
	+ 2 × 4700 pF (Y2)				B84111-A-K10	×	×	×	×	×	×
2	2 × 0,1 µF (X2)	2 × 1,5 mH	A	80	B84111-A-A20	×	×	×	×	×	×
	+ 2 × 4700 pF (Y2)										
3	2 × 0,1 µF (X2)	2 × 1,5 mH	A	80	B84111-A-A30	×	×	×	×	×	×
	+ 2 × 4700 pF (Y2)		K	140	B84111-A-K30	×	×	×	×	×	×
			L	80	B84111-A-L30	×	×	×	×	×	×
6	2 × 0,1 µF (X2)	2 × 1,8 mH	A	110	B84111-A-A60	×	×	×	×	×	×
	+ 2 × 4700 pF (Y2)		B	110	B84111-A-B60	×	×	×	×	×	×
			K	140	B84111-A-K60	×	×	×	×	×	×
			L	110	B84111-A-L60	×	×	×	×	×	×
10	2 × 0,1 µF (X2)	2 × 820 µH	A	120	B84111-A-A110	×	×	×	×	×	×
	+ 2 × 4700 pF (Y2)		B	120	B84111-A-B110	×	×	×	×	×	×
			L	120	B84111-A-L110	×	×	×	×	×	×
20	2 × 0,1 µF (X2)	2 × 470 µH	A	210	B84111-A-A120	×	×	×	×	×	×
	+ 2 × 4700 pF (Y2)		B	210	B84111-A-B120	×	×	×	×	×	×

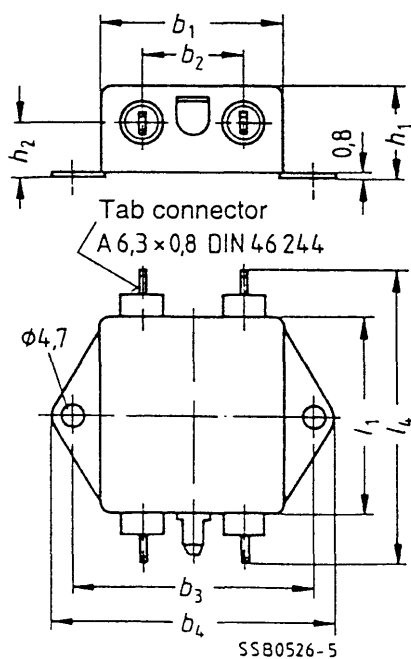
× = mark of conformity granted

Case styles and dimensions

Case style	Ordering code B84111-	Dimensions in mm										Litz mm ²	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											

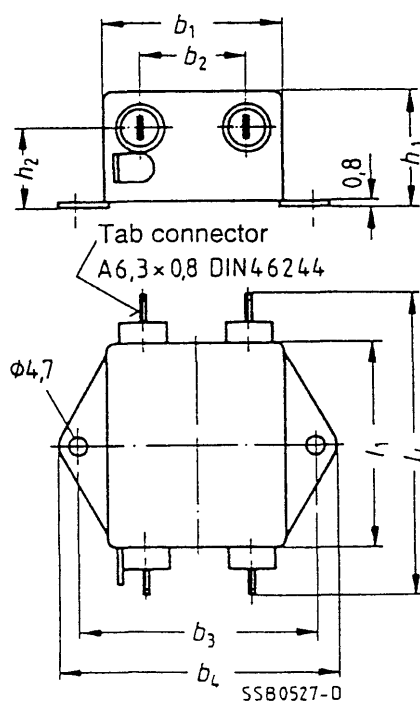
Case style A

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



Case style A

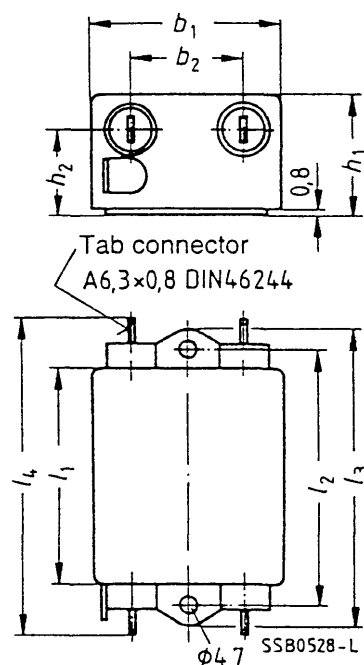
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B84111-A-A110
B84111-A-A120



Case style B

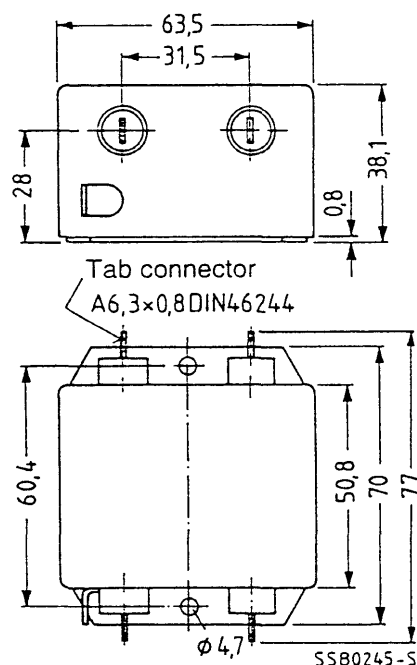
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B84111-A-B110

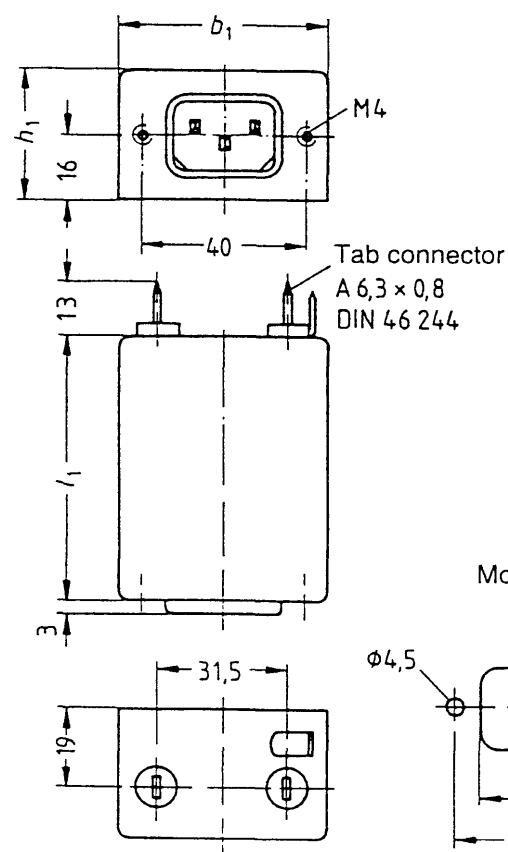


Case style B

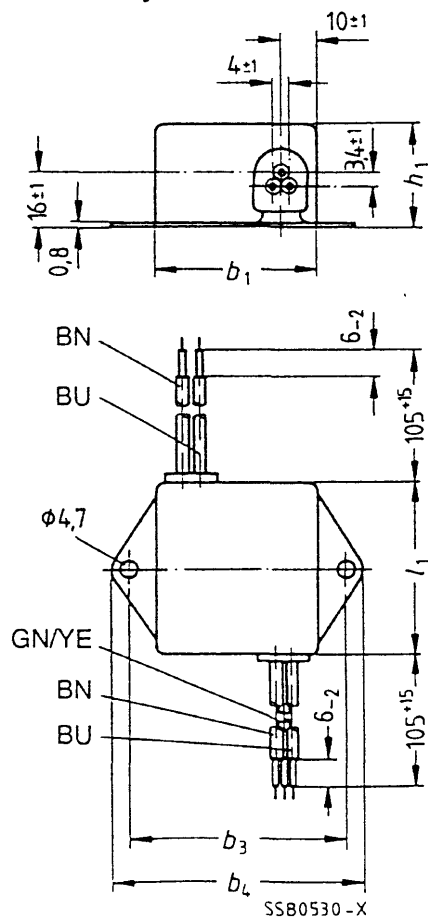
B84111-A-B120



Case style K



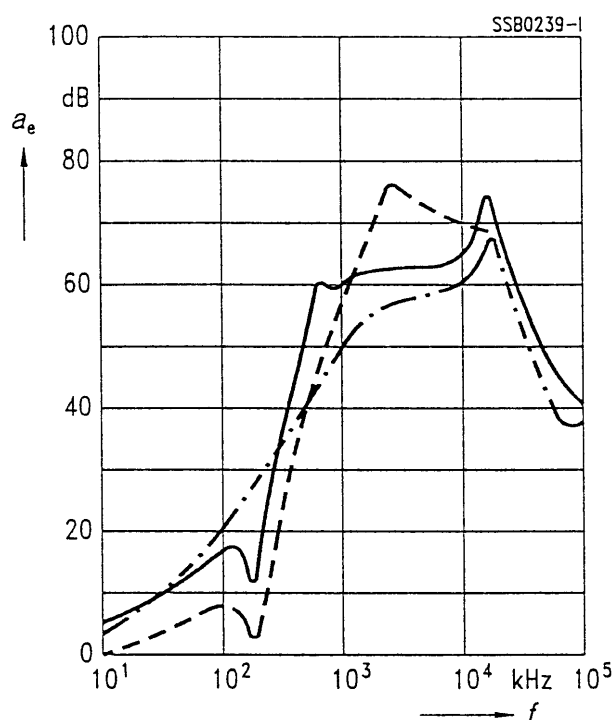
Case style L



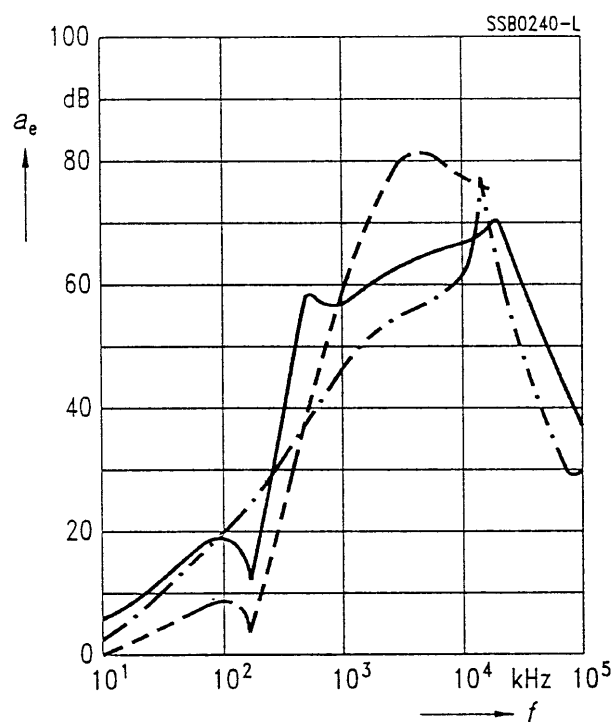
Insertion loss (typical values at $Z = 50 \Omega$)

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

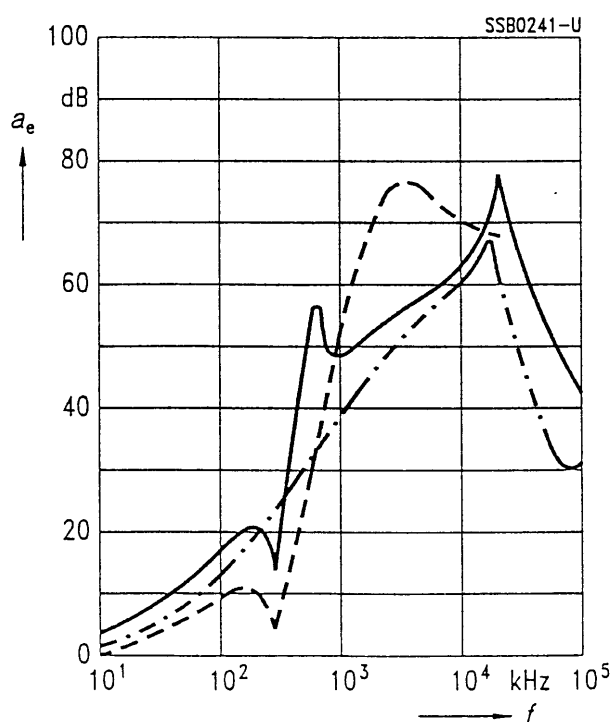
B84111-A-*10 ... -A-*30



B84111-A-*60



B84111-A-*110



B84111-A-*120

