

SIFI-D for high attenuation
Rated voltage 250 Vac, 50/60 Hz
Rated current 1 A to 10 A

Construction

- Two-line filter
- Aluminum case

Features

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

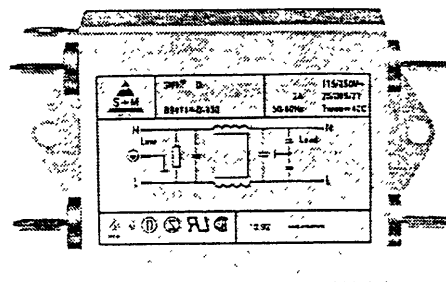
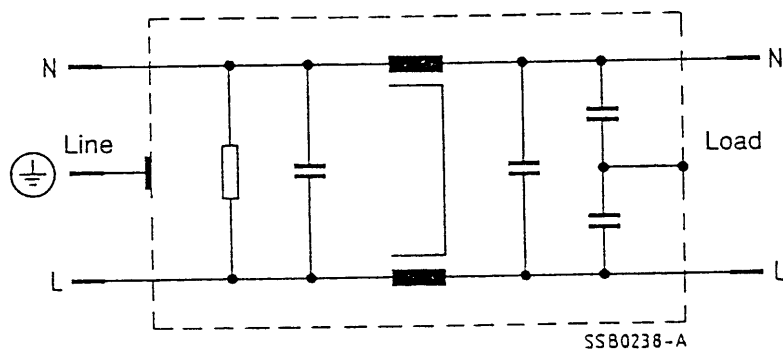
Applications

- 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 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 5,6 mH	A	150	B84114-D-A10	×	×	×	×	×	×
			B	150	B84114-D-B10	×	×	×	×	×	×
			K	210	B84114-D-K10	×	×	×	×	×	×
			L	150	B84114-D-L10	×	×	×	×	×	×
2	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 5,6 mH	A	150	B84114-D-A20	×	×	×	×	×	×
			B	150	B84114-D-B20	×	×	×	×	×	×
			L	150	B84114-D-L20	×	×	×	×	×	×
3	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 5,6 mH	A	150	B84114-D-A30	×	×	×	×	×	×
			B	150	B84114-D-B30	×	×	×	×	×	×
			K	210	B84114-D-K30	×	×	×	×	×	×
			L	150	B84114-D-L30	×	×	×	×	×	×
6	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 4,7 mH	A	230	B84114-D-A60	×	×	×	×	×	×
			B	230	B84114-D-B60	×	×	×	×	×	×
			K	290	B84114-D-K60	×	×	×	×	×	×
			L	230	B84114-D-L60	×	×	×	×	×	×
10	2 × 0,68 µF (X2) + 2 × 4700 pF (Y2)	2 × 4,7 mH	A	420	B84114-D-A110	×	×	×	×	×	×
			B	420	B84114-D-B110	×	×	×	×	×	×
			L	420	B84114-D-L110	×	×	×	×	×	×

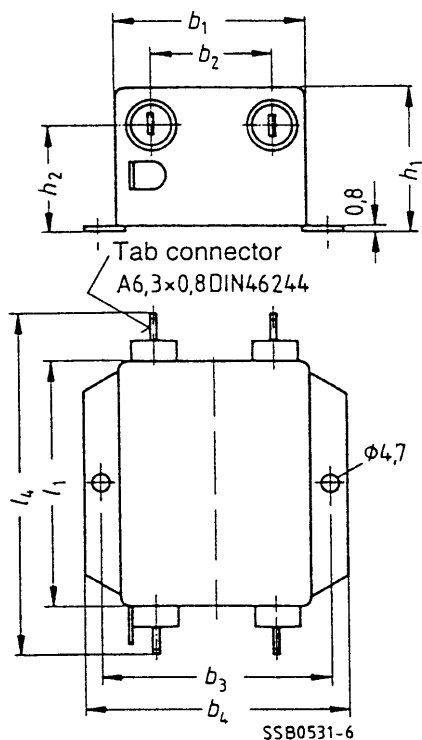
× = mark of conformity granted

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 ²	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 outline drawing											
B	-D-B110	See outline drawing											
L	-D-L110	50,8	—	—	—	92	103,1	113	—	44,5	—	1,35	AWG16

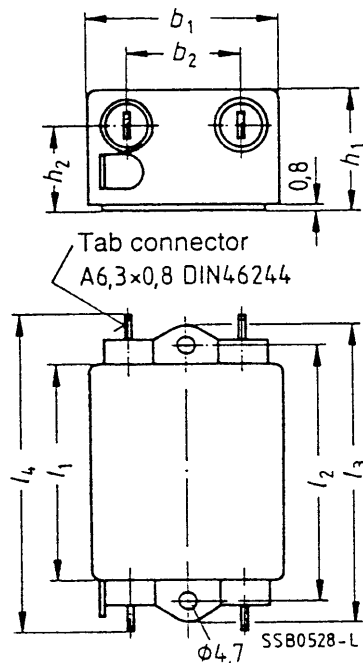
Case style A

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

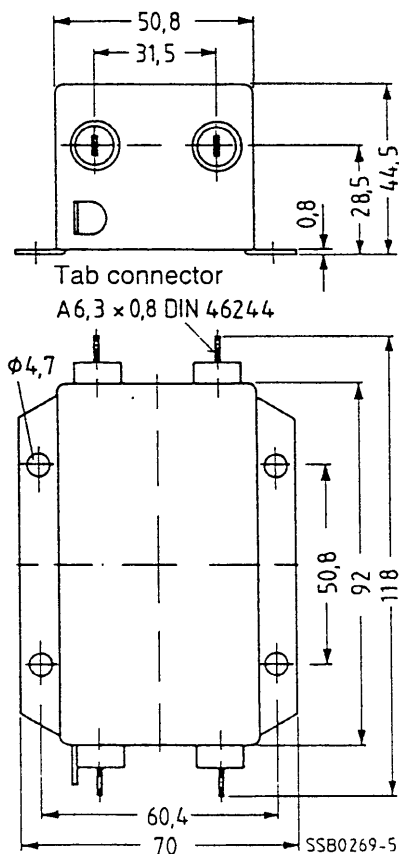


Case style B

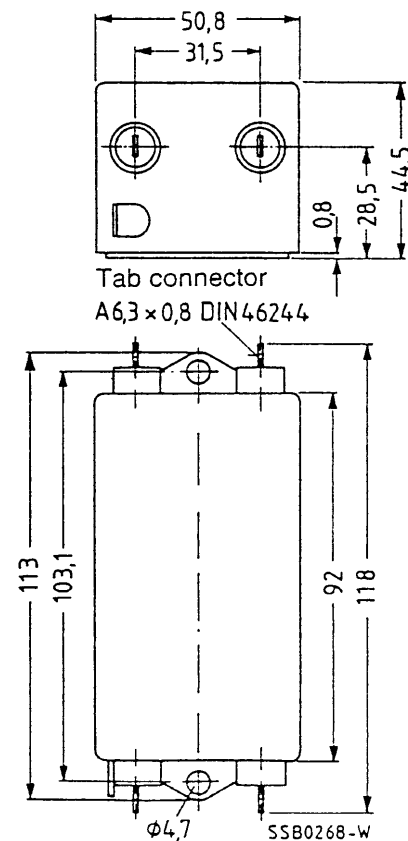
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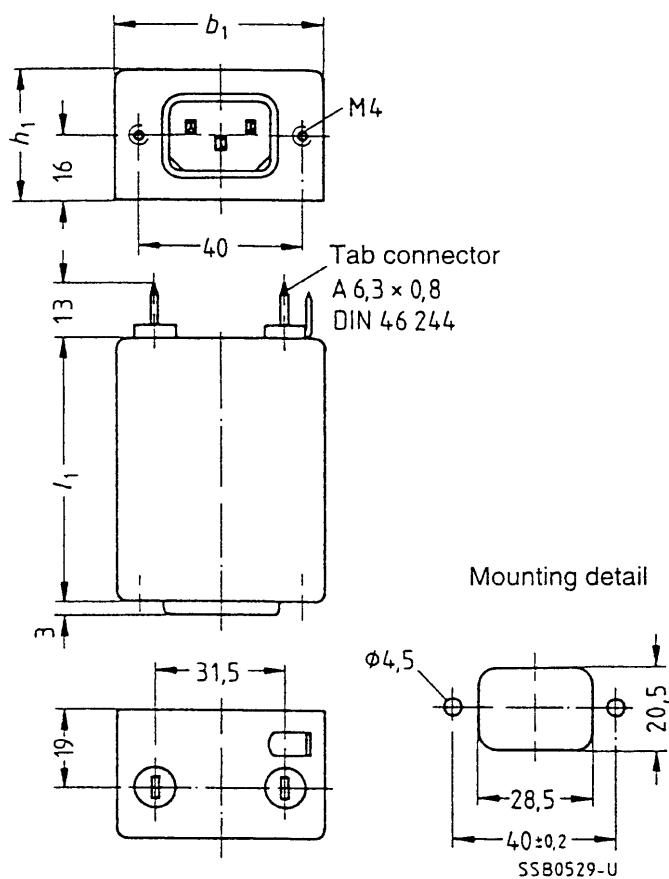
B84114-D-A110



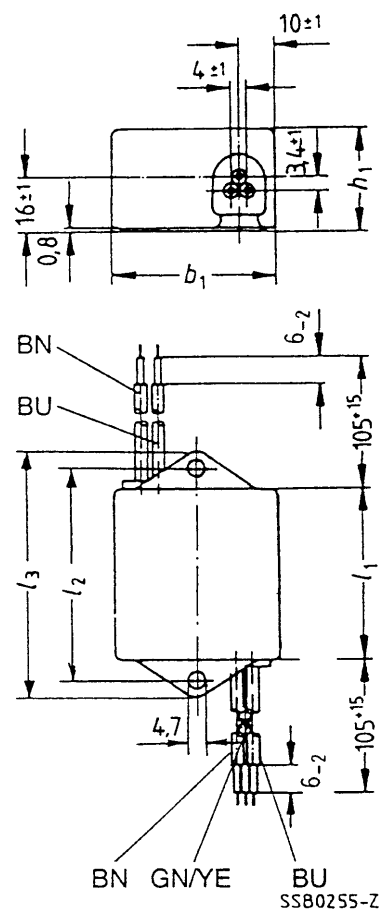
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Case style K



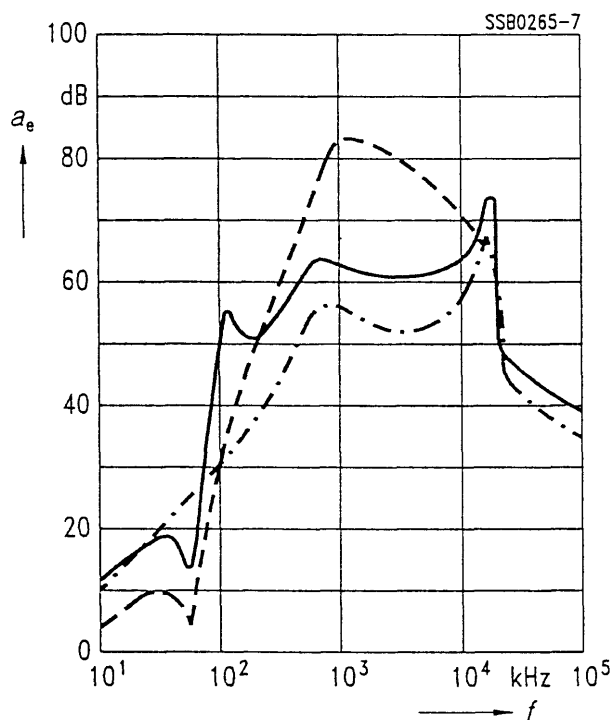
Case style L



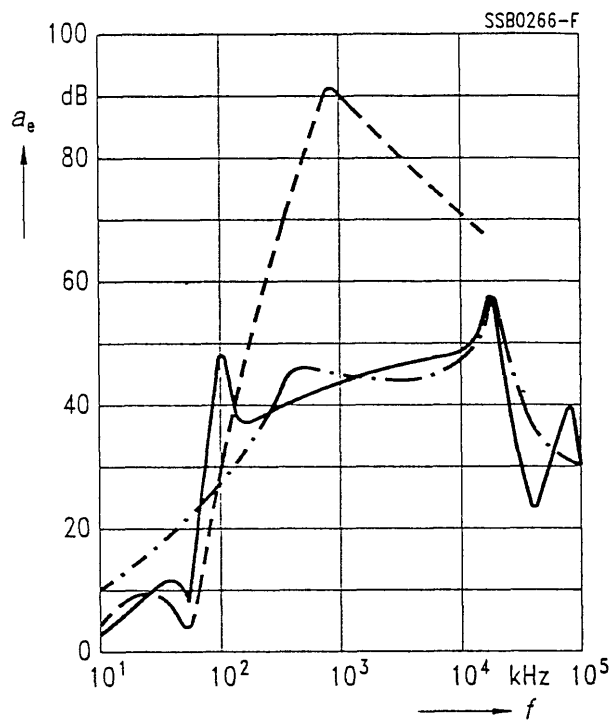
Insertion loss (typical values at $Z = 50 \Omega$)

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

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



B84114-D-*60



B84114-D-*110

