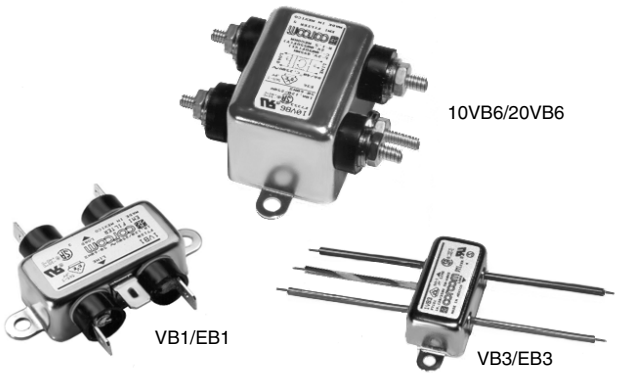
General Purpose RFI Power Line Filters for High Impedance Loads at Low Cost

B Series

UL Recognized
CSA Certified
VDE Approved

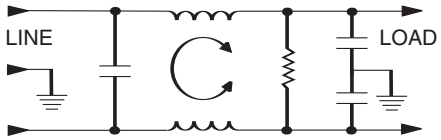


B Series

The B series RFI power line filters are general purpose common-mode filters effectively providing RFI control of line-to-ground noise in a small size at low cost. These filters are designed to meet a wide variety of electronic and electrical applications and are available in a broad selection of current ratings and termination styles.

The EB models meet the very low leakage current requirements of VDE portable equipment, and (120 Volt) UL544 non-patient medical equipment.

Electrical Schematic



Resistor location for reference only.

Specifications

Maximum leakage current, each line-to-ground

	VB Models	EB Models
@ 120 VAC 60 Hz:	.4 mA	.21 mA
@ 250 VAC 50 Hz:	.7 mA	.36 mA

Hipot rating (one minute):

line-to-ground	2250 VDC
line-to-line	1450 VDC

Operating frequency: 50/60 Hz

Rated voltage (max.): 250 VAC

Rated current:

1VB/1EB	1A
2VB/2EB	2A
3VB/3EB	3A
5VB/5EB	5A
10VB/10EB	10A
10VB6	10A
20VB/20EB	20A
30VB6	30A

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz .15	.5	1	5	10	30
VB Models						
1A, 3A	15	30	38	50	50	50
2A, 5A, 10A, 20A, 30A	7	20	25	40	45	48
EB Models						
1A, 3A	15	29	35	45	45	48
2A, 5A, 10A, 20A	7	19	23	34	37	42

Catalog 1654001
Revised 05-07

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA Cust. Svc.: 1-800-468-2023
CORCOM Prods: 1-847-680-7400
Germany: 49-89-6089-0

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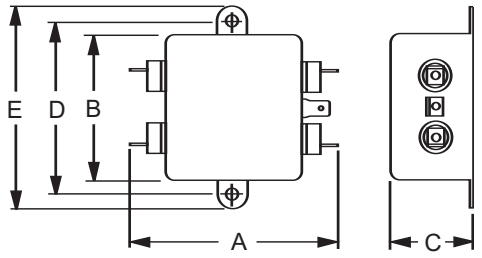
B Series

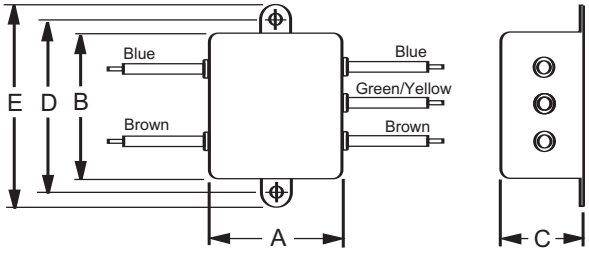
Case Styles

B1



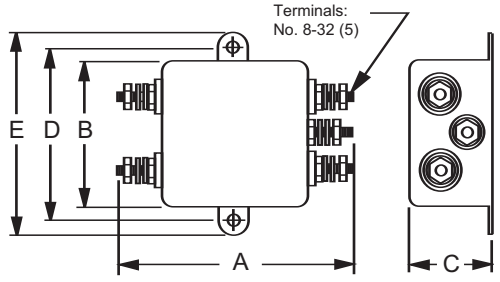
Typical dimensions:
Terminals: .250 [*6.35*] (5)
Slot: .07 x .16 [*1.8 x 4.1*]
Holes: .07 [*1.8*] Dia.(4)
Mounting holes: .188 [*4.78*] Dia.(2)

B3



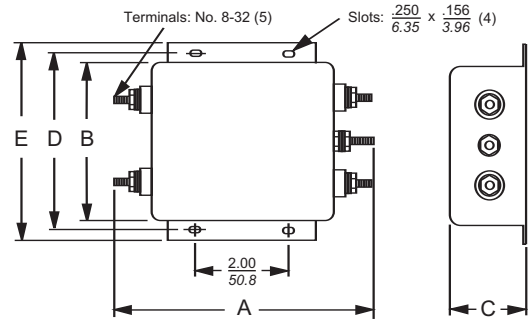
Typical dimensions:
Wire Leads: 4.0 [*101.6*] Min.
Mounting holes: .188 [*4.78*] Dia.(2)

10VB6 & 20VB6



Typical dimensions:
Mounting holes: .188 [*4.78*] Dia.(2)
Torque: 18±2 in. lb.

30VB6



Case Dimensions

Part No.	A (max)	B (max)	C (max)	D ±.015 ±.38	E (max)
1VB1, 1EB1,	**2.25**	**1.82**	**0.66**	**2.125**	**2.53**
2VB1, 2EB1	*57.2*	*46.2*	*16.8*	*53.98*	*64.3*
1VB3, 1EB3,	**0.96**	**1.82**	**0.66**	**2.125**	**2.53**
2VB3, 2EB3	*24.4*	*46.2*	*16.8*	*53.98*	*64.3*
3VB1, 3EB1,	**2.61**	**1.82**	**0.78**	**2.125**	**2.53**
5VB1, 5EB1	*66.3*	*46.2*	*19.8*	*53.98*	*64.3*
3VB3, 3EB3,	**1.32**	**1.82**	**0.78**	**2.125**	**2.53**
5VB3, 5EB3	*33.5*	*46.2*	*19.8*	*53.98*	*64.3*
10VB1, 10EB1	**2.61**	**1.82**	**1.16**	**2.125**	**2.53**
	66.3	*46.2*	*29.5*	*53.98*	*64.3*
10VB3, 10EB3	**1.32**	**1.82**	**1.16**	**2.125**	**2.53**
	33.5	*46.2*	*29.5*	*53.98*	*64.3*
10VB6	**2.72**	**1.82**	**1.16**	**2.125**	**2.53**
	69.1	*46.2*	*29.5*	*53.98*	*64.3*
20VB1, 20EB1	**3.36**	**2.07**	**1.16**	**2.375**	**2.81**
	85.3	*52.6*	*29.5*	*60.33*	*71.4*
20VB6	**3.46**	**2.07**	**1.16**	**2.375**	**2.81**
	87.9	*52.6*	*29.5*	*60.33*	*71.4*
30VB6	**5.34**	**3.38**	**1.53**	**3.750**	**4.20**
	135.6	*85.9*	*38.9*	*95.3*	*106.7*

Part Numbers

1VB1	1EB1
1VB3	1EB3
2VB1	2EB1
2VB3	2EB3
3VB1	3EB1
3VB3	3EB3
5VB1	5EB1
5VB3	5EB3
10VB1	10EB1
10VB3	10EB3
10VB6	20EB1
20VB1	
20VB6	
30VB6	

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