

Home » TE connectivity » **TE connectivity VB Series General Purpose RFI Filters User Guide** ₱

TE connectivity VB Series General Purpose RFI Filters User Guide



Corcom Product Guide

Catalog: 1654001 Issue Date: 06.2011

General Purpose RFI Filters for High Impedance Loads at Low Current

B Series





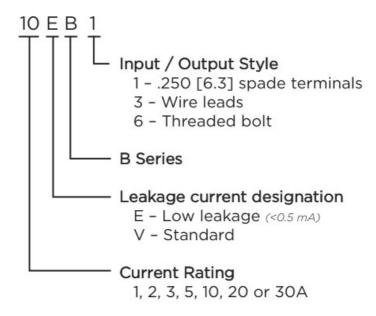
Contents [hide]

- 1 B Series
- 2 Ordering Information
- 3 Electrical Schematic
- 4 Specifications
- 5 Available Part Numbers
- 6 Case Styles
- 7 Case Dimensions
- 8 Performance Data
- 9 Minimum Insertion Loss
- 10 Documents / Resources
 - 10.1 References

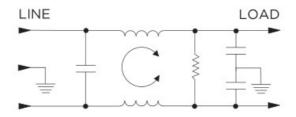
B Series

- Small size & low cost
- General purpose
- Wide variety of termination options
- Meets low leakage current requirements of VDE portable equipment and non-patient medical equipment

Ordering Information



Electrical Schematic



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: Line to Line:	2250 VDC 1450 VDC
Rated Voltage (max):	250 VAC
Operating Frequency:	50/60 Hz
Rated Current:	1 to 30A

Operating Ambient Temperature Range

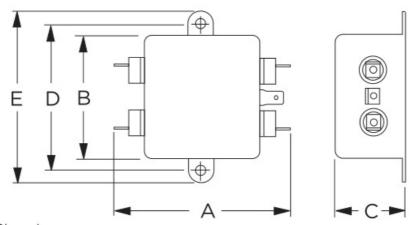
at rated current I _r):	-10°C to +40°C
In an ambient temperature (Ta)	higher than +40°C
the maximum operating current (l _o) is calculated as
follows:	$I_0 = I_r \sqrt{(85-Ta)/45}$

Available Part Numbers

12	isk a
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	

Case Styles

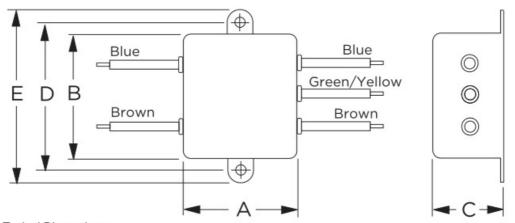
B1



Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot 188 [4 75] Dia

B3



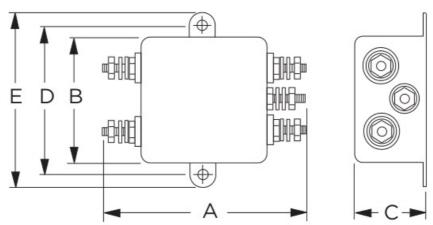
Typical Dimensions:

Wire leads (5):

4.0 [101.6] Min. AWG18, (AWG16 for 10A)

Mounting Holes (2): .188 [4.75] Dia.

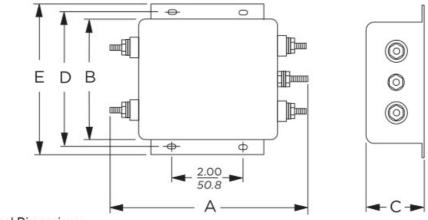
10VB6 & 20VB6



Typical Dimensions:

Terminals (5): Mounting Holes (4): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .188 [4.75] Dia.

30VB6



Typical Dimensions:

Terminals (5): Mounting Slots (4): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .250 x .156 [6.35 \times 3.96]

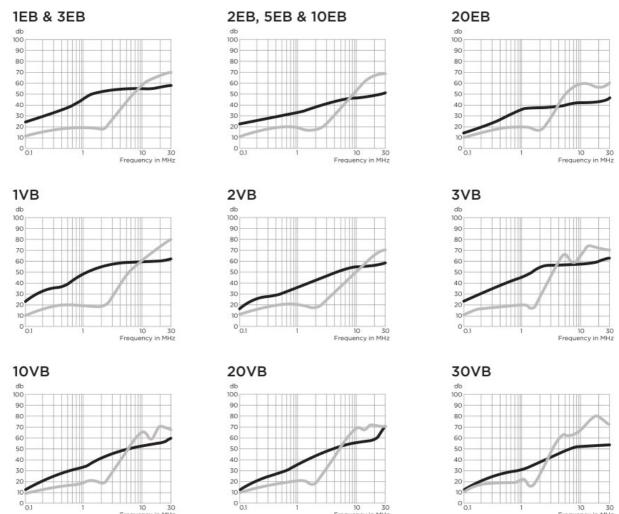
Case Dimensions

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	193.8	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	6.3
10VB3, 10EB3	1.32	1.82	1.16	2.125	2.53
10 0 63, 10 6 63	33.5	46.2	29.5	53.98	64.3
10VB6	2.72	1.82	1.16	2.125	2.53
10 4 00	69.1	46.2	29.5	53.98	64.3
20VB1, 20EB1	3.36	2.07	1.16	2.375	2.81
20161, 20261	85.3	52.6	29.5	60.33	71.4
20VB6	3.46	2.07	1.16	2.375	2.81
20 / 60	87.9	52.6	29.5	60.33	71.4
30VB6	5.34	3.38	1.53	3.75	4.20
30 4 00	135.6	85.9	38.9	95.3	106.

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current		Fr	equen	cy – M	Hz	
Rating	.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

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.

For email, phone or live chat, please go to te.com/help corcom.com

Documents / Resources



<u>TE connectivity VB Series General Purpose RFI Filters [pdf]</u> User Guide VB6, VB Series General Purpose RFI Filters, VB Series, General Purpos e RFI Filters, Purpose RFI Filters, RFI Filters, Filters

References

- User Manual
- TE connectivity
- Filters, General Purpose RFI Filters, Purpose RFI Filters, RFI Filters, TE connectivity, VB Series, VB Series General Purpose RFI Filters, VB6

Leave a comment

Your email address will not be published. Required fields are marke	our ema	ail address	will not h	e published.	Required	fields are	e marked
---	---------	-------------	------------	--------------	----------	------------	----------

Comment *			

mail				
ebsite				
	email, and website i			

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search

Manuals+ | Upload | Deep Search | Privacy Policy | @manuals.plus | YouTube

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.