

Introducing

Corcom SB Series High Performance B Series Power Line Filters

The Corcom SB power line filter series joins the Corcom product family of EMI/RFI filter products. The SB Series of AC/DC rated power line filters is an enhanced version of the popular Corcom B Series filter with improved common and differential mode performance. The compact height (1.53"/38.86 mm) of the SB Series makes these products optimal for space constrained applications. These filters provide significant differential mode performance ideal for industrial machinery equipment and are also suitable as a simple clean up filter within all types of electronic applications. Low leakage versions are available that meet current requirements of VDE portable equipment and UL544 non-patient medical equipment.



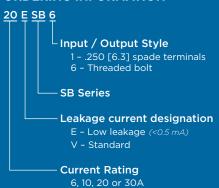




KEY FEATURES

- Compact Size
- High Differential Mode Performance
- 6-30Amp
- 250 Rated Voltage VAC
- 250 Rated Voltage VDC
- UL Recognized, CSA Certified, and VDE Approved

ORDERING INFORMATION



STANDARDS AND SPECIFICATIONS

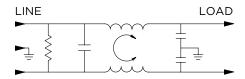


CSA Certified VDE Approved

ELECTRICAL SPECIFICATIONS

Max. Leakage current each Line to Ground:	@ 120 VAC 60 Hz	VSB Models: .75 mA	ESB Models: .22 mA					
	@ 250 VAC 50 Hz	ESB Models: .36 mA						
Rated Currents:	6, 10, 20 & 30A							
Rated Voltage (max):	250 VAC & 250 VDC							
Operating Frequency:		50/60 Hz						

ELECTRICAL SCHEMATIC



PRODUCT OFFERING

6ESB1	6VSB1
10ESB1	10VSB1
10ESB6	10VSB6
20ESB1	20VSB1
20ESB6	20VSB6
30ESB6	30VSB6

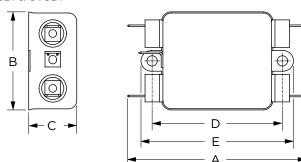
CASE DIMENSIONS

	Α	В	С	D	E	
Part No.	(max)	(max)	(max)	± .015 ± .38	(max)	
CECD1 CVCD1	3.36	1.82	0.91	2.375	2.78	
6ESB1, 6VSB1	85.34	46.23	23.11	60.325	70.61	
10ECD1 10VCD1	3.36	1.82	1.28	2.375	2.78	
10ESB1, 10VSB1	85.34	46.23	32.51	60.325	70.61	
10ECDC 10VCDC	3.47	1.82	1.53	2.375	2.78	
10ESB6, 10VSB6	88.14	46.23	38.86	60.325	70.61	
20ECD1 20VCD1	3.85	2.07	1.31	2.938	3.35	
20ESB1, 20VSB1	97.79	52.58	33.27	74.625	85.09	
20ECB6 20VCB6	4	2.07	1.53	2.938	3.35	
20ESB6, 20VSB6	101.6	52.58	38.86	74.625	85.09	
70FCD6 70VCD6	4.92	2.07	1.53	3.947	4.33	
30ESB6, 30VSB6	124.97	52.58	38.86	100.254	109.98	



CASE STYLES

6ESB1 & 6VSB1

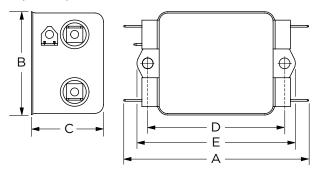


Typical Dimensions:

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.

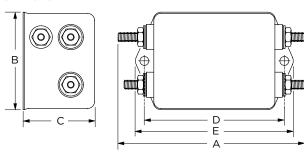
10ESB1, 10VSB1, 20ESB1 & 20VSB1



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.

ESB6 & VSB6



Typical Dimensions:

Terminals (5):

Mounting Holes (2):

8-32 Torque 18 lbf-in. [2.03 N-m] max. ± 2 [.22] .188 [4.75] Dia.

PERFORMANCE DATA

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Common Mode	0 / / (0.	,		. (,				
	Frequency — MHz										
Part No.	0.03	0.05	0.1	0.15	0.5	1	2	5	10	20	30
ESB Models											
6ESB1	3	8	13	17	31	37	40	47	50	58	62
10ESB1	3	9	15	19	31	39	41	44	47	54	51
10ESB6	3	9	14	18	31	39	41	44	47	54	54
20ESB1	3	7	13	15	30	35	37	39	40	46	40
20ESB6	3	7	13	16	30	35	39	40	44	58	46
30ESB6	3	7	13	17	30	34	37	40	42	49	58
VSB Models											
6VSB1	3	8	14	19	37	47	51	58	66	59	49
10VSB1	3	9	15	21	41	49	50	56	64	54	46
10VSB6	4	9	15	21	39	49	50	56	64	54	44
20VSB1	3	7	14	19	37	45	47	50	60	48	40
20VSB6	3	7	14	19	37	44	49	52	62	48	41
30VSB6	3	6	13	18	37	45	49	51	60	50	42

Differential Mode / Asymmetrical (Line to Line)

Differential Mode / Asymmetrical (Line to Line)												
	Frequency — MHz											
Part No.	0.01	0.03	0.05	0.1	0.15	0.5	1	2	5	10	20	30
ESB Models												
6ESB1	5	14	20	25	29	41	49	47	50	60	74	72
10ESB1	5	15	20	26	29	41	47	50	54	64	74	74
10ESB6	5	14	20	25	29	41	47	48	50	60	62	64
20ESB1	5	15	21	26	29	41	45	48	54	63	70	66
20ESB6	5	15	21	26	29	41	44	48	54	63	70	66
30ESB6	5	14	20	25	29	40	46	50	50	58	70	70
VSB Models												
6VSB1	5	14	20	25	29	40	41	57	66	78	56	62
10VSB1	5	15	21	26	29	39	40	60	64	67	67	64
10VSB6	5	14	20	25	29	39	40	60	64	68	70	64
20VSB1	5	15	20	26	29	40	42	60	68	70	70	67
20VSB6	5	15	21	26	29	39	38	58	68	70	70	66
30VSB6	5	15	20	25	29	39	39	56	62	70	70	66

FOR MORE INFORMATION

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TE Connectivity:

10ESB1 20ESB1 10VSB6 20VSB6