

Corcom 10VS1
RFI / EMI Filter



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\$75.00

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Qty Available: 2

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Multipurpose Power Line RFI Filter for Emission Control

S Series



UL Recognized
CSA Certified
VDE Approved



20VS1

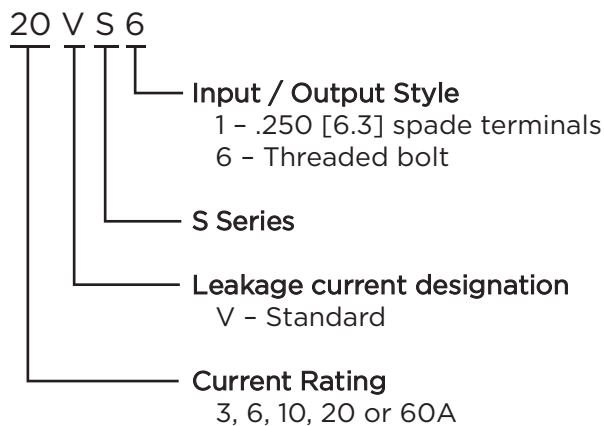


3VS1

S Series

- Combines Line to Ground interference rejection filters with additional circuitry to reduce Line to Line noise and transients
- Designed for use when equipment impedance at RF frequencies is high
- Effective for use with switch-mode power supplies
- Effective when used to control emissions in equipment using SCR and T2L circuits for compliance with FCC Part 15, Subpart J and EN55022, Level A, down to 150kHz

Ordering Information



Available Part Numbers

3VS1	20VS1
6VS1	20VS6
10VS1	60VS6

Specifications

Maximum leakage current each Line to Ground:

	3 & 20A	60A
@120 VAC 60 Hz:	.4 mA	.75 mA
@250 VAC 50 Hz:	.7 mA	1.25 mA

Hipot rating (one minute):

Line to Ground:	2250 VDC
Line to Line:	1450 VDC

Rated Voltage (max):

250 VAC

Operating Frequency:

50/60 Hz

Rated Current:

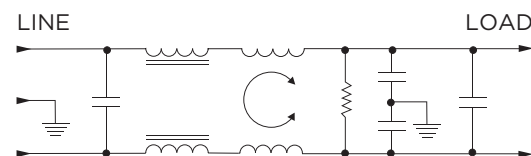
3 to 60A

Operating Ambient Temperature Range

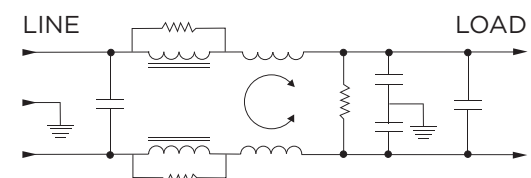
(at rated current I_r): -10°C to +40°C
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Electrical Schematics

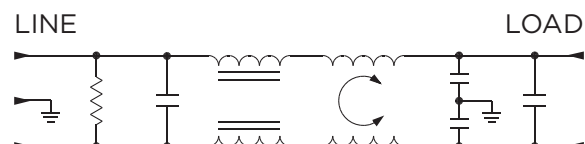
3, 6, 10VS



20VS



60VS

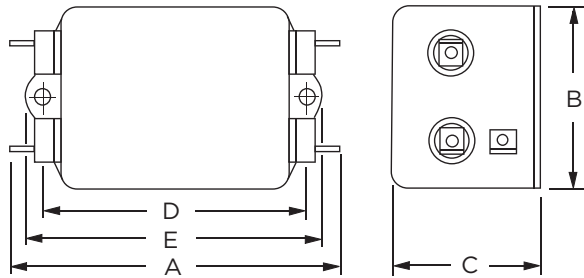


Multipurpose Power Line RFI Filter for Emission Control *(continued)*

S Series

Case Styles

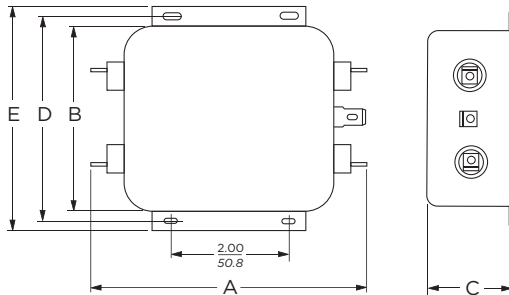
S1 (3, 6, 10A)



Typical Dimensions:

Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
Mounting Holes (2): .188 [4.78] Dia.

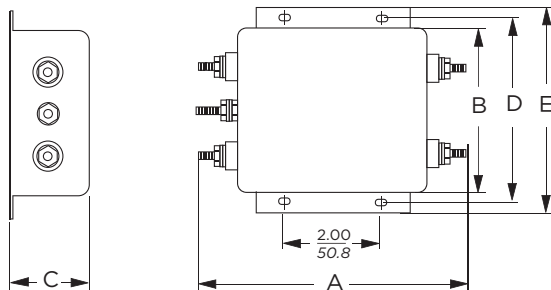
20VS1



Typical Dimensions:

Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
Mounting Slots (4): .250 x .156 [6.35 x 3.96] Dia.

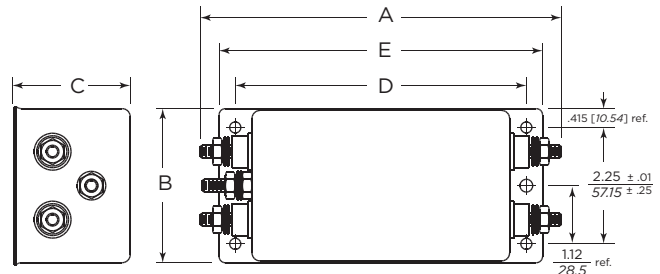
20VS6



Typical Dimensions:

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

60VS6



Typical Dimensions:

Terminals (5): 1/4-20, Torque 56 lbf-in. [6.32 N-m] max. ± 2 [22]
Mounting Holes (5): .218 [5.53] Dia. ± .006 [152]

Case Dimensions

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
3VS1	3.36 85.3	1.82 46.2	1.16 29.5	2.375 60.33	2.78 70.6
6VS1	3.86 98.0	2.08 52.8	1.53 38.9	2.938 74.63	3.34 84.8
10VS1	3.86 98.0	2.08 52.8	1.53 38.9	2.938 74.63	3.34 84.8
20VS1	5.23 132.8	3.38 85.9	1.53 38.9	3.75 95.25	4.20 106.7
20VS6	5.34 135.6	3.38 85.9	1.53 38.9	3.75 95.25	4.20 106.7
60VS6	7.2 182.88	3.08 78.23	2.28 57.91	5.625 142.87	6.25 158.75

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RFI Power Line Filters

Multipurpose Power Line RFI Filter for Emission Control *(continued)*

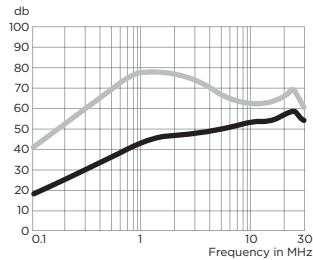
S Series

Performance Data

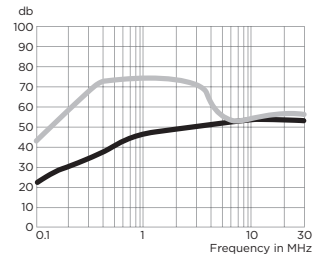
Typical Insertion Loss

Measured in closed 50 Ohm system

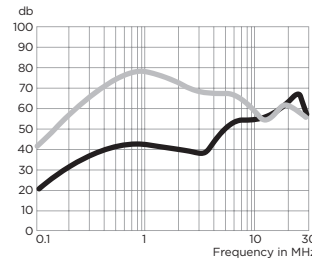
3VS



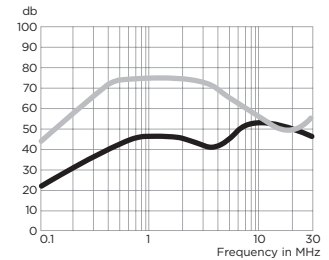
6VS



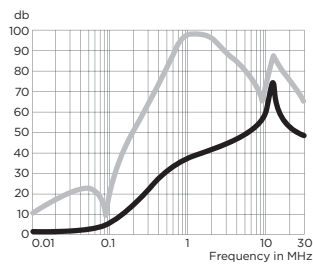
10VS



20VS



60VS



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz							
	.15	.5	1	2	5	10	20	30
3A	15	27	35	40	32	44	47	47
6A	15	27	35	40	32	44	47	47
10A	15	27	35	40	32	44	47	47
20A	15	30	38	38	32	43	42	40
60A	7	27	34	38	45	54	44	40

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz								
	.15	.3	.5	1	2	5	10	20	30
3A	35	50	65	65	65	60	50	40	45
6A	35	50	65	65	65	60	45	48	48
10A	35	50	65	65	65	60	50	40	45
20A	35	50	65	65	65	60	45	48	48
60A	37	-	77	93	86	70	54	64	54

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