

Multipurpose Power Line RFI Filter for Emission Control

V and W Series



UL Recognized CSA Certified VDE Approved¹

Both the V and W series are effective 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

V Series

- Offers an N = 3 ("T") Line to Ground impedance to common mode and an N = 5 "Dbl. Pi") impedance for Line to Line differential mode interference
- Designed for susceptibility use when equipment impedance at RF frequencies is low

W Series

- Offers an N = 4 ("Dbl. L") Line to Ground impedance for common mode and an N=5 ("Dbl. Pi") impedance for Line to Line differential mode interference
- Designed for use when equipment impedance at RF frequencies is high
- Two stage construction provides excellent suppression at high frequencies

Ordering Information





Specifications

 Maximum leakage current each Line t @ 120 VAC 60 Hz: @250 VAC 50 Hz: 	:o Ground: .5 mA .82 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:	3 to 20A*
Operating Ambient Temperature Ran (at rated current Ir):	ge -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 $\sqrt{(85-Ta)/45}$

Electrical Schematics

V Series



to US and Canadian requirements and is VDE approved at 16A, 250VAC

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.

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Multipurpose Power Line RFI Filter for Emission Control (continued)

V and W Series

Available Part Numbers

3VV1	3VW1
6VV1	3VW1
10VV1	10VW1
20VV1	20VW1
20VV6	20VW6
	20VW7*

Case Styles

V1 / W1 (3, 6 & 10A)





Typical Dimensions:

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



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.

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Case Styles (continued) VW7



Load Terminals (2): Ground Terminal (1): Line Inlet (1):

Tapped Inserts (2):

.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot IEC 60320-1 C20 6-32 x 1/4

Recommended Panel Cutout



Case Dimensions

Part No	Α	В	С	D	Е	
Part NO.	(max)	(max)	(max)	<u>± .015</u> ± .38	(max)	
7\/\/1 7\/\\/1	3.36	1.82	1.28	2.375	2.78	
5 0 0 1, 5 0 00 1	85.3	46.2	32.5	60.33	70.6	
$C \setminus (1 + C) \setminus (1 + C)$	3.86	2.08	1.53	2.938	3.34	
	98.0	52.8	38.9	74.63	84.8	
10VV1, 10VW1	3.86	2.08	1.53	2.938	3.34	
	98.0	52.8	38.9	74.63	84.8	
201/1/1 201/1/1/1	5.23	3.38	1.53	3.75	4.20	
20 v v I, 20 v vv I	132.8	85.9	38.9	95.25	106.7	
	5.34	3.38	1.53	3.76	4.20	
20000, 200000	135.64	85.9	38.9	95.5	106.7	
201/11/7	5.65	3.12	2.29	_	_	
20 V VV /	143.51	79.25	58.17			

*20VW7, 20A model tested by Underwriters Laboratories to US and Canadian requirements and is VDE approved at 16A, 250VAC



Multipurpose Power Line RFI Filter for Emission Control (continued)

V and W Series

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system









10VW db 100

90

80

70

60

50

40

30

20

10

0

20VW

30

10 30 Frequency in MHz

Differential Mode / Symmetrical (Line to Line)

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



db 100 90 80 70 60 50 40 30 20 10 Frequ cy in MH;

3VW



Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz					Current			Frequency – MHz								
Rating	.15	.5	1	2	5	10	20	30	Rating	.15	.5	1	2	5	10	20	30
V Series									V Series								
ЗA	15	27	38	47	55	55	50	48	3A	25	25	65	63	60	52	50	50
6A	15	27	28	47	55	55	50	48	6A	40	54	65	65	65	60	57	55
10A	15	27	38	47	55	55	50	48	10A	25	25	65	63	60	52	50	50
20A	15	30	41	49	55	46	36	30	20A	25	25	65	63	60	52	50	50
W Series									W Series								
ЗA	13	25	20	45	60	65	65	63	3A	25	40	65	65	62	55	35	35
6A	18	30	34	40	65	65	57	47	6A	30	54	65	65	60	55	38	38
10A	18	30	34	40	65	65	57	47	10A	25	25	65	65	65	50	45	45
20A	18	30	34	40	65	65	57	47	20A	25	25	65	65	65	50	45	45

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>>TE Connectivity(泰科)