imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

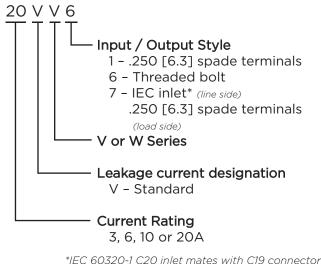
V Series

- 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





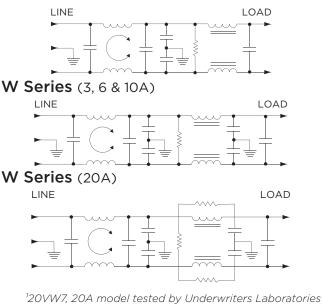
Specifications

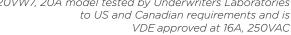
Maximum leakage current each Line @ 120 VAC 60 Hz: @250 VAC 50 Hz:	to Ground: .5 mA .82 mA
Hipot rating (one minute): Line to Ground: Line to Line:	2250 VDC 1450 VDC
Rated Voltage (max):	250 VAC
Operating Frequency:	50/60 Hz
Rated Current:	3 to 20A*
Operating Ambient Temperature Rar (at rated current I _r):	ige -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





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.

Multipurpose Power Line RFI Filter for Emission Control (continued)

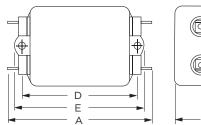
V and W Series

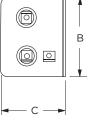
Available Part Numbers

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

Case Styles

V1 / W1 (3, 6 & 10A)



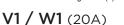


Typical Dimensions:

 Line/Load Terminals (4):
 .250 [6.3] with .07 [1.8] Dia. hole

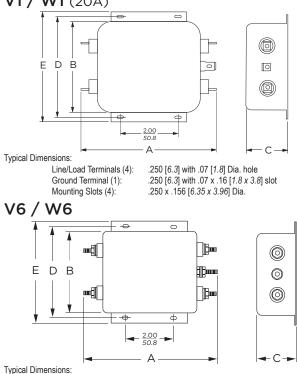
 Ground Terminal (1):
 .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

 Mounting Holes (2):
 .188 [4.78] Dia.

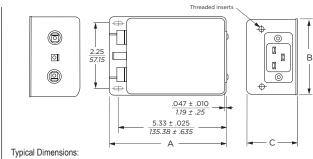


Terminals (5):

Mounting Slots (4):



Case Styles (continued) VW7

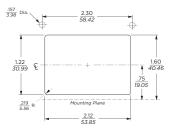


Load Terminals (2): Ground Terminal (1): Line Inlet (1):

.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

Tapped Inserts (2):



Case Dimensions

Part No.	A (max)	B (max)	C (max)	D <u>± .015</u> ± .38	E (max)
3VV1, 3VW1	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
6VV1, 6VW1	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
20VV1, 20VW1	5.23	3.38	1.53	3.75	4.20
20001, 200001	132.8	85.9	38.9	95.25	106.7
20VV6. 20VW6	5.34	3.38	1.53	3.76	4.20
20000, 200000	135.64	85.9	38.9	95.5	106.7
20VW7	5.65	3.12	2.29	_	_
20 • • • /	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

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.

.250 x .156 [6.35 x 3.96] Dia.

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

87



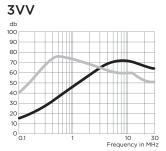
Multipurpose Power Line RFI Filter for Emission Control (continued)

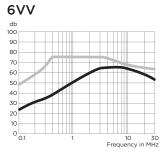
V and W Series

Performance Data

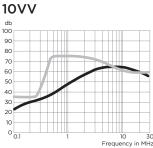
Typical Insertion Loss

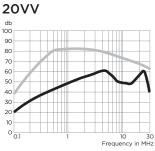
Measured in closed 50 Ohm system

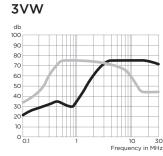


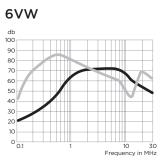


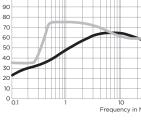
Common Mode / Asymmetrical (L-G) Differential Mode / Symmetrical (L-L)











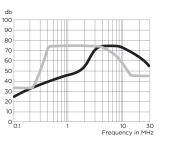
10VW

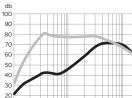
20VW

10

Differential Mode / Symmetrical (Line to Line)

0_0.1





10 30 Frequency in MHz

Minimum Insertion Loss

Measured in closed 50 Ohm system

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								
3A	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								
3A	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

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.