

Multi-purpose Medical Filter for Power Line Noise Protection

MV Series



UL Recognized CSA Certified VDE Approved



MV Series

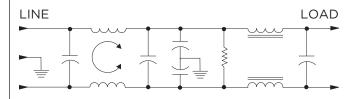
- Multi-purpose medical filter
- Improved Line to Ground performance
- A good solution to emission or immunity problems
- Meets leakage current requirements of UL2601 for health care equipment

Specifications

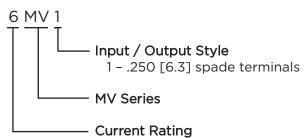
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Maximum leakage current each Li								
@ 120 VAC 60 Hz:	.07 mA							
@250 VAC 50 Hz:	.13 mA							
Hipot rating (one minute):								
Line to Ground:	2250 VDC							
Line to Line:	1450 VDC							
Rated Voltage (max):	250 VAC							
Operating Frequency:	50/60 Hz							
Rated Current:	3 to 20A							
Operating Ambient Temperature	Range							
(at rated current I _r):	-10°C to +40°C							
In an ambient temperature (T) higher than $\pm 40^{\circ}$ 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 Schematic



Ordering Information



3, 6, 10 or 20A

Available Part Numbers

3MV1	6MV1
10MV1	20MV1

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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Multi-purpose Medical Filter for Power Line Noise Protection (continued)

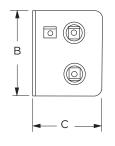
MV Series

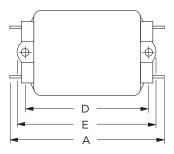
Electronics

Case Styles

7 Тусо

MV1 (3, 6, 10A)



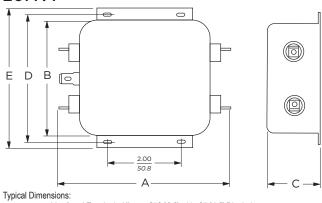


.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

20MV1



.188 [4.78] Dia.

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 [4.78] Dia.

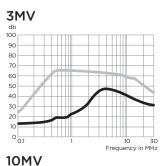
Case Dimensions

Part No.	Α	В	С	D	Е	
	(max)	(max)	(max)	<u>± .015</u> ± .38	(max)	
3MV1	3.36	1.82	1.28	2.375	2.78	
	85.3	46.2	32.5	60.33	70.6	
6MV1	3.86	2.08	1.53	2.938	3.34	
	98.0	52.8	38.9	74.63	84.8	
10MV1	3.86	2.08	1.53	2.938	3.34	
	98.0	52.8	38.9	74.63	84.8	
20MV1	5.23	3.38	1.53	3.75	4.20	
	132.8	85.9	38.9	95.25	106.7	

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



db 100

90

80

70

60

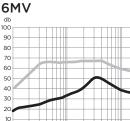
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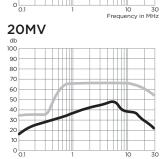
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Common Mode / Asymmetrical (L-G) Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Frea

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz							
Rating	.15	.5	1	2	5	10	20	30
3A	14	19	20	30	46	40	34	31
6A	19	27	30	38	50	40	35	35
10A	15	25	26	34	46	50	44	42
20A	18	30	34	34	46	40	36	20

Differential Mode / Symmetrical (Line to Line)

Current	Frequency – MHz							
Rating	.15	.5	1	2	5	10	20	30
3A	33	65	65	65	65	60	53	50
6A	40	65	65	65	65	60	57	55
10A	33	65	65	65	65	65	55	55
20A	25	65	65	65	65	60	57	45

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