

High Performance RFI Filters for Switching Power Supplies

N Series



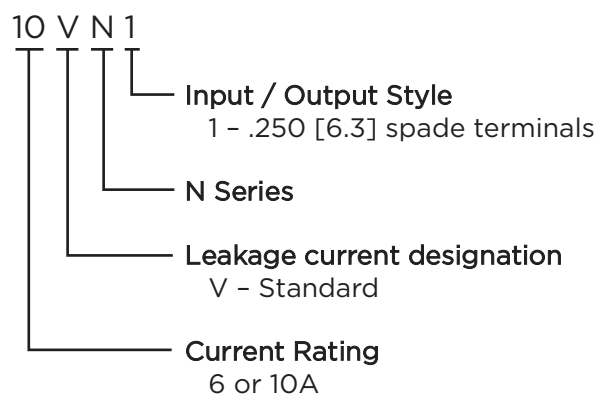
UL Recognized
CSA Certified
VDE Approved



N Series

- Superior attenuation for most digital electronic equipment over the frequency range of 10kHz to 30MHz
- Provides excellent common mode and differential mode performance
- Cost-effective solution to very noisy equipment that must meet conducted emission limits

Ordering Information



Available Part Numbers

6VN1	10VN1
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Specifications

Maximum leakage current each Line to Ground:

@ 120 VAC 60 Hz:	1.2 mA
@ 250 VAC 50 Hz:	2.0 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:

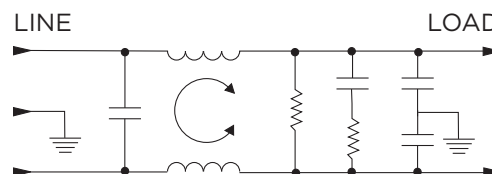
6 to 10A

Operating Ambient Temperature Range

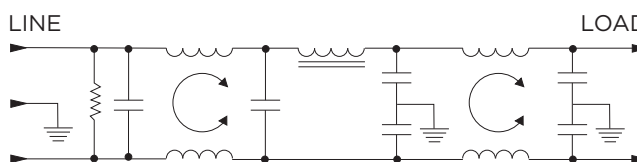
(at rated current I_r): -10°C to +40°C
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Electrical Schematics

3VN



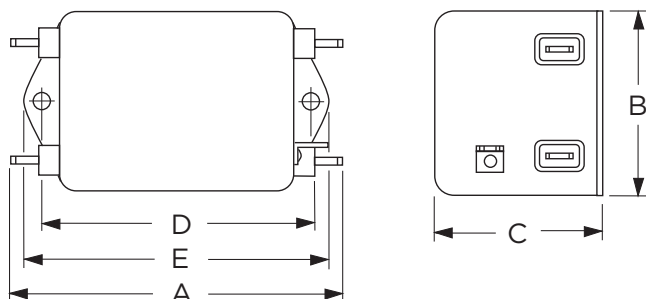
10VN



High Performance RFI Filters for Switching Power Supplies *(continued)*

N Series

Case Styles



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.

Case Dimensions

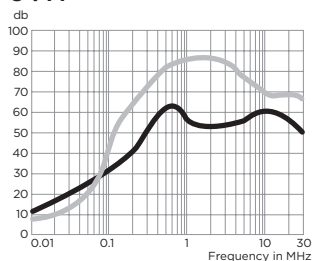
Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
6VN1	3.56 <i>90.4</i>	2.15 <i>54.6</i>	1.81 <i>45.9</i>	2.938 <i>74.63</i>	3.38 <i>85.8</i>
10VN1	4.69 <i>119.1</i>	2.27 <i>57.7</i>	1.8 <i>45.7</i>	4.063 <i>103.2</i>	4.47 <i>113.5</i>

Performance Data

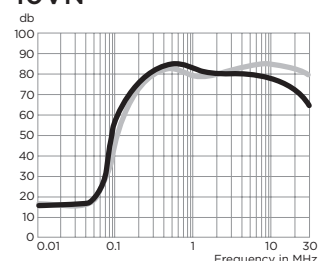
Typical Insertion Loss

Measured in closed 50 Ohm system

6VN



10VN



— 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								
	.01	.05	.1	.15	.5	1	5	10	30
6A	6	20	28	34	58	54	53	53	43
10A	8	8	44	55	75	70	70	70	55

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz								
	.01	.05	.1	.15	.5	1	5	10	30
6A	6	14	41	52	66	77	72	60	60
10A	6	6	35	45	72	70	72	75	70