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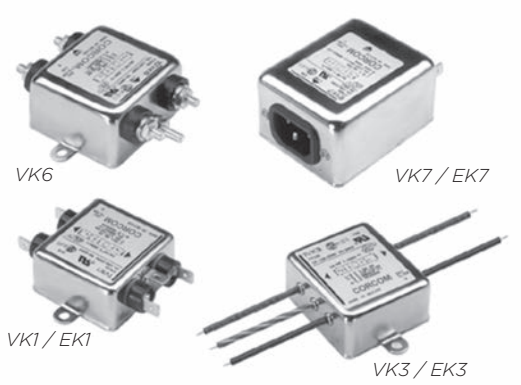
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K Series

UL Recognized
CSA Certified
VDE Approved**



K Series

- Suitable for high impedance loads
- Well suited to applications where pulsed, continuous and/or intermittent RFI interference is present
- EK models meet the very low leakage current requirements for VDE portable equipment and non-patient care medical equipment
- Available with ground line inductor (choke)

Ordering Information

10 E K 7 M

Suffix
M – Metric inserts *(style 7 only)*
Omit for standard or none
C – Ground choke *(30, 40VK6 only)*

Input / Output Style
1 – .250 [6.3] spade terminals
3 – Wire leads
6 – Threaded bolt
7 – IEC inlet* *(line side)*
.250 [6.3] spade terminals *(load side)*

K Series

Leakage current designation
E – Low leakage *(<0.5 mA)*
V – Standard

Current Rating
1, 2, 3, 5, 10, 20, 30, 40 or 60A

**1-15A: IEC 60320-1 C14 inlet mates with C13 connector*
20VK7: C20 inlet mates with C19 connector

Specifications

Maximum leakage current each Line to Ground:

	VK Models	EK Models
@ 120 VAC 60 Hz:	.5 mA	.21 mA
@250 VAC 50 Hz:	1.0 mA	.36 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: 1 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: $I_o = I_r \sqrt{(85-Ta)/45}$

Available Part Numbers

1VK1	10VK6	2EK3
1VK3	10VK7	3EK1
2VK1	10VK7M	3EK3
2VK3	20VK1	3EK7
3VK1	20VK6	3EK7M
3VK3	20VK7*	5EK1
3VK7	30VK6	5EK3
3VK7M	30VK6C	5EK7
5VK1	40VK6	5EK7M
5VK3	40VK6C	10EK1
5VK7	60VK6	10EK3
5VK7M	1EK1	10EK7
10VK1	1EK3	10EK7M
10VK3	2EK1	20EK1

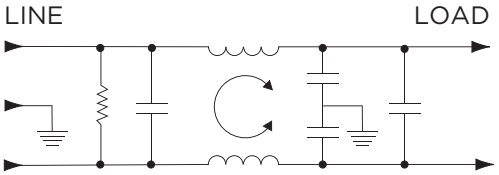
***20VK7, 20A model tested by Underwriters Laboratories to US and Canadian requirements and is VDE approved at 16A, 250VAC*

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.

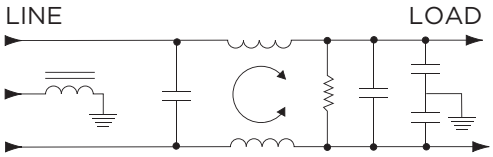
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K Series

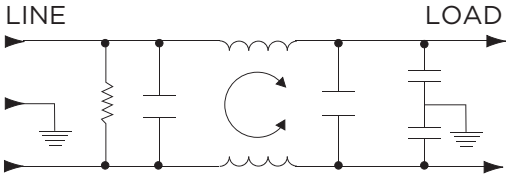
Electrical Schematics



30 & 40VK6C *(Inductor in Ground Line)*

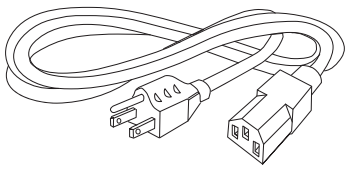


60VK6



Accessories

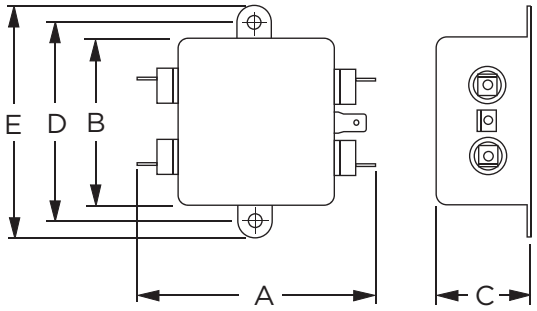
GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord





Case Styles

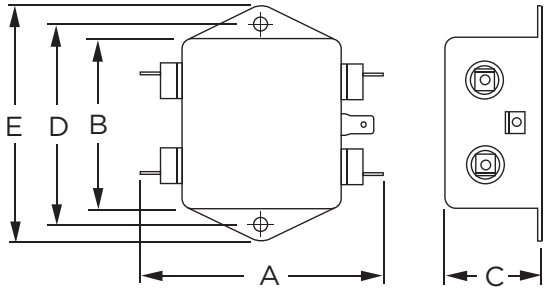
K1 (1, 2, 3, 6, 10A)



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.

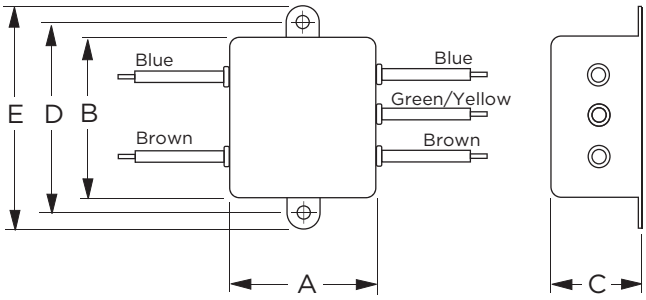
K1 (20A)



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.

K3



Typical Dimensions:

Wire Leads (5):	4.0 [*101.6*] Min., AWG18 (AWG16 for 10A)
Mounting Holes (2):	.188 [4.78] Dia.

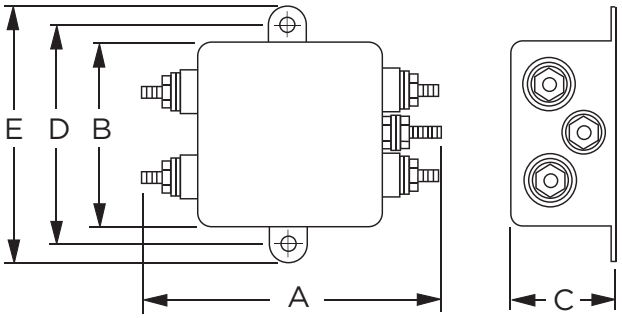
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K Series

Case Styles *(continued)*

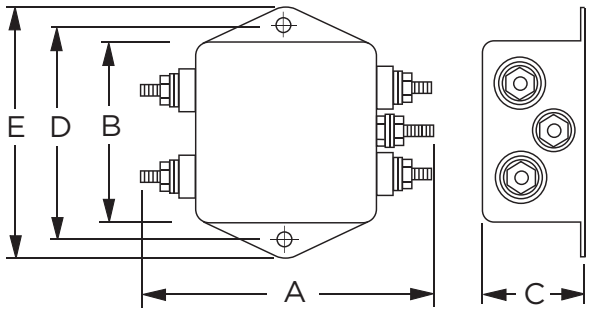
10VK6



Typical Dimensions:

Terminals (5):	8-32, Torque 18 lbf-in. [*2.03* N-m] max. ± 2 [*.22*]
Mounting Holes (2):	.188 [4.78] Dia.

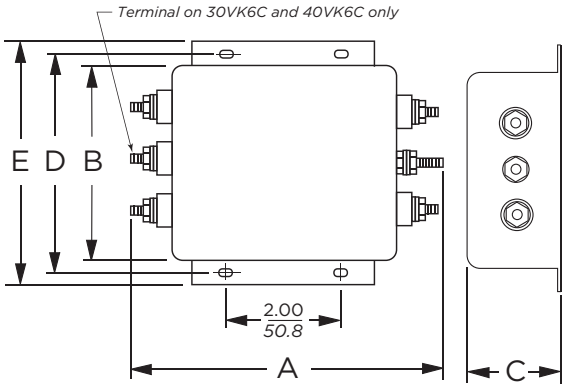
20VK6



Typical Dimensions:

Terminals (5):	8-32, Torque 18 lbf-in. [*2.03* N-m] max. ± 2 [*.22*]
Mounting Holes (2):	.188 [4.78] Dia.

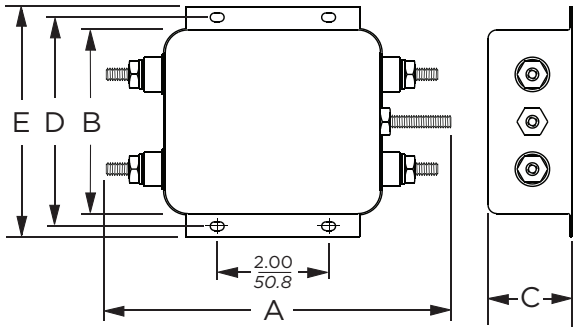
30VK6/6C & 40VK6/6C



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.

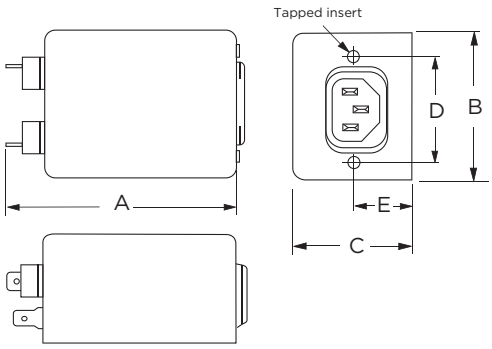
60VK6



Typical Dimensions:

Terminals (5):	1/4-20, Torque 56 lbf-in. [*6.32* N-m] max. ± 2 [*.22*]
Mounting Slots (4):	.250 x .156 [*6.35 x 3.96*] Dia.

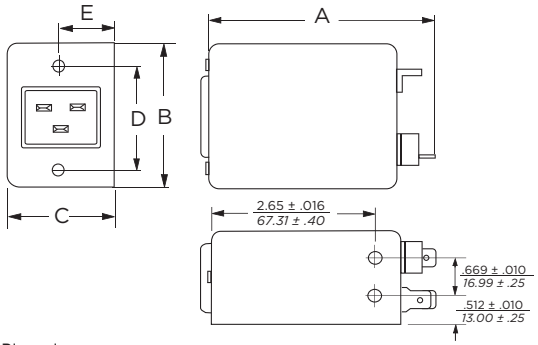
K7 & K7M (3, 5, 10A)



Typical Dimensions:

Load Terminals (2):	.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
Line Inlet (1):	IEC 60320-1 C14
K7 Tapped Inserts (2):	6-32 x 1/4
K7M Tapped Inserts (2):	M3 x .5

20VK7



Typical Dimensions:

Load Terminals (2):	.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
Line Inlet (1):	IEC 60320-1 C20
K7 Tapped Inserts (2):	6-32 x 1/4
K7M Tapped Inserts (2):	M3 x .5

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K Series

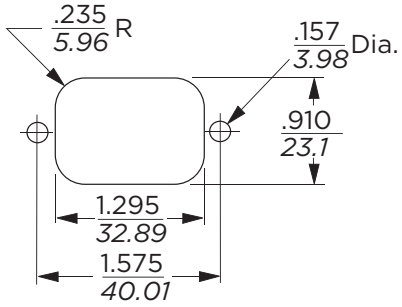
Case Dimensions

Part No.	A (max)	B (max)	C (max)	D ± .015 / ± .38	E (max)
1VK1, 1EK1, 2VK1, 2EK1	**3.1** *78.7*	**2.07** *52.6*	**0.91** *23.1*	**2.375** *60.33*	**2.81** *74.1*
1VK3, 1EK3, 2VK3, 2EK3	**1.81** *46.0*	**2.07** *52.6*	**0.91** *23.1*	**2.375** *60.33*	**2.81** *74.1*
3VK1, 3EK1, 5VK1, 5EK1	**3.10** *78.7*	**2.07** *52.6*	**1.16** *29.5*	**2.375** *60.33*	**2.81** *74.1*
3VK3, 3EK3, 5VK5, 5EK3	**1.81** *46.0*	**2.07** *52.6*	**1.16** *29.5*	**2.375** *60.33*	**2.81** *74.4*
3VK7/7M, 3EK7/7M	**3.21** *81.5*	**2.25** *57.2*	**1.28** *32.5*	**1.575** *40.01*	**0.63*** *16.0**
5VK7/7M, 5EK7/7M	**3.21** *81.5*	**2.25** *57.2*	**1.28** *32.5*	**1.575** *40.01*	**0.63*** *16.0**
10VK1, 10EK1	**3.35** *85.1*	**2.07** *52.6*	**1.16** *29.5*	**2.375** *60.33*	**2.81** *71.4*
10VK3, 10EK3	**2.07** *52.6*	**2.07** *52.6*	**1.16** *29.5*	**2.375** *60.33*	**2.81** *71.4*
10VK6	**3.46** *87.9*	**2.07** *52.6*	**1.16** *29.5*	**2.375** *60.33*	**2.81** *71.4*
10VK7/7M, 10EK7/7M	**3.71** *94.2*	**2.25** *57.2*	**1.28** *32.5*	**1.575** *40.01*	**0.63*** *16.0**
20VK1, 20EK1	**3.35** *85.1*	**2.56** *65.0*	**1.53** *38.9*	**2.938** *74.63*	**3.35** *85.1*
20VK6	**3.46** *87.9*	**2.56** *65.0*	**1.53** *38.9*	**2.938** *74.63*	**3.35** *85.1*
20VK7	**3.8** *90.4*	**2.28** *54.6*	**1.78** *39.6*	**1.575** *74.63*	**.846¹** *85.8¹*
30VK6, 30VK6C	**5.34** *135.6*	**3.38** *85.9*	**1.53** *38.9*	**3.75** *95.25*	**4.20** *106.7*
40VK6, 40VK6C	**5.34** *135.6*	**3.38** *85.9*	**1.53** *38.9*	**3.75** *95.25*	**4.20** *106.7*
60VK6	**6.0** *152.4*	**3.38** *85.9*	**1.53** *38.9*	**3.75** *95.25*	**4.20** *106.7*

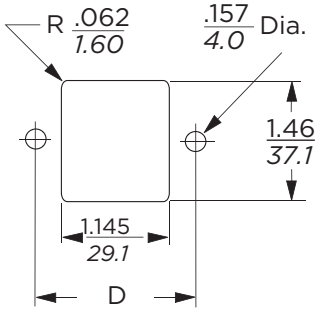
*±0.02 [0.5]
¹±0.01 [0.25]

Recommended Panel Cutouts

K7 & K7M Cutout (3, 5, 10A)



20VK7 Cutout



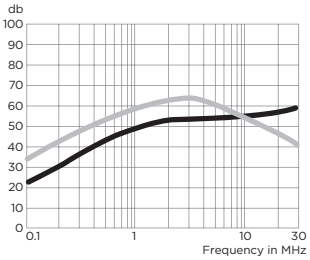
Tolerance ± .005 [0.13]

Performance Data

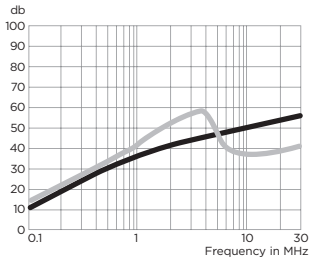
Typical Insertion Loss

Measured in closed 50 Ohm system

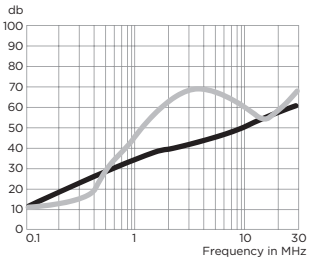
1 & 3EK



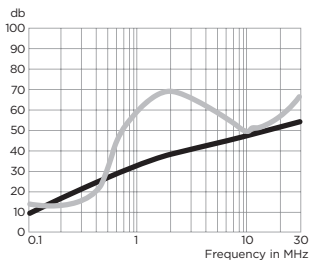
2 & 10EK



5EK



20EK



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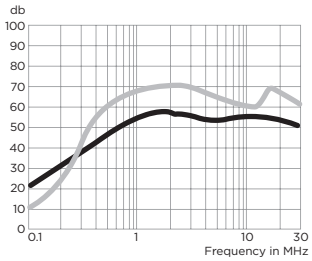
K Series

Performance Data *(continued)*

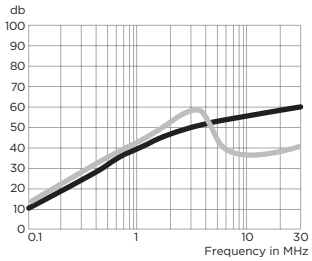
Typical Insertion Loss

Measured in closed 50 Ohm system

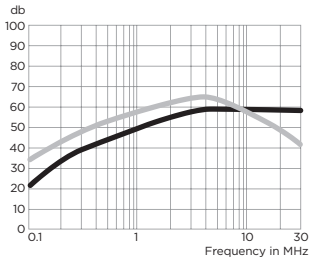
1VK



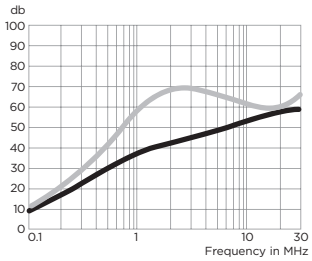
2VK



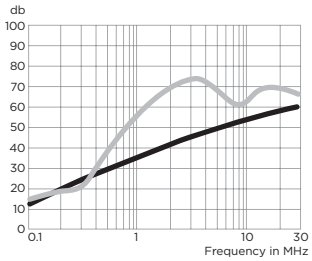
3VK



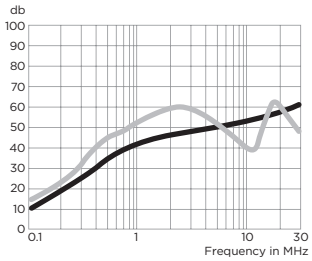
5VK



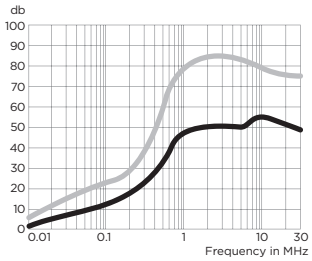
10VK



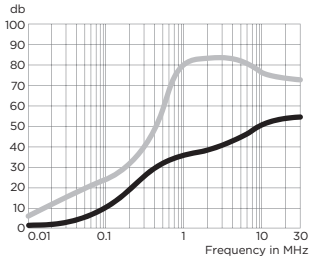
20VK



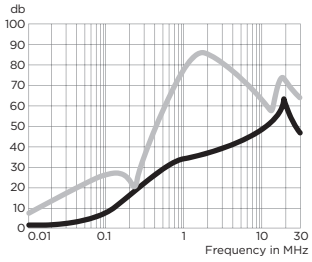
30VK & 30VK6C



40VK & 40VK6C



60VK



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	5	10	30
VK Models						
1A, 3A	15	30	38	50	50	50
2A, 5A, 10A	6	19	28	42	45	50
20A	6	19	28	42	45	50
30A, 40A	6	19	28	42	45	50
60A	6	22	28	32	39	35
EK Models						
1A, 3A	15	29	35	45	45	50
2A, 5A, 10A	8	19	25	38	40	45
20A	8	19	25	38	40	45

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz .15	.5	1	5	10	30
VK Models						
1A, 3A	-	-	48	55	50	35
2A, 5A, 10A	-	-	30	50	30	30
20A	6	6	30	50	30	30
30A, 40A	2	40	60	65	57	55
60A	13	49	67	57	53	53
EK Models						
1A, 3A	-	-	48	55	50	35
2A, 5A, 10A	-	-	30	50	30	30
20A	6	6	30	50	30	30

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