

# K Series

**General Purpose RFI Power Line Filters**  
**Best Buy for High Impedance Load**  
**20, 30, 40A Models**

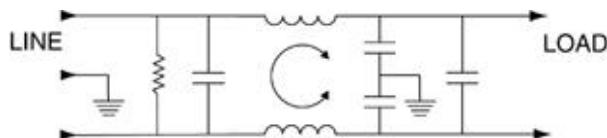


**UL Recognized**  
**CSA Certified**  
**VDE Approved**

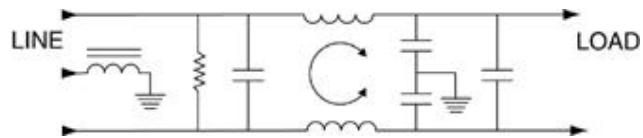
## K Series

The K series RFI power line filters are general purpose common-mode and differential-mode filters. They are effective in the control of line-to-line as well as line-to-ground RFI interference. The K series RFI filters are particularly suited in applications where pulsed, continuous and/or intermittent RFI interference is present. The EK models meet the very low leakage current requirements of VDE portable equipment, and (120 Volt) UL544 nonpatient medical equipment.

## Electrical Schematics



**30VK6C Model** (Inductor in Ground Line)



Resistor location for reference only.



## Specifications

	<b>VK Models</b>	<b>EK Models</b>
Maximum leakage current, each line-to-ground		
@ 120 VAC 60 Hz:	.4 mA	.21 mA
@ 250 VAC 50 Hz:	.7 mA	.36 mA
Hipot rating (one minute):		
line-to-ground	2250 VDC	
line-to-line	1450 VDC	
Operating frequency:	50/60 Hz	
Rated voltage:	120/250 VAC	
Rated current:	<b>@120 VAC</b>	<b>@ 250 VAC</b>
20VK/20EK	20A	16A
30VK6/30VK6C	30A	25A
40VK6/40VK6C	40A	36A

**Minimum** insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	.15	.5	1	5	10	30
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### VK Models

20A, 30A, 40A	6	19	28	42	45	50
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### EK Models

20A	8	19	25	38	40	45
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Line-to-line in 50 ohm circuit

Current Rating	.15	.5	1	5	10	30
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### VK Models

20A	6	6	30	50	30	30
30A	2	40	60	65	57	55
40A	2	40	60	65	57	55

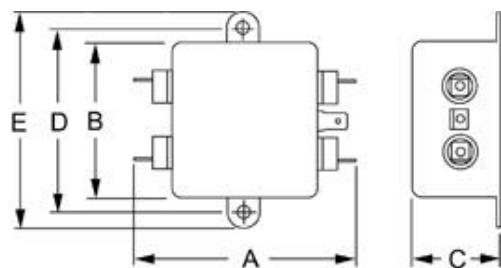
### EK Models

20A, 30A	6	6	30	50	30	30
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## Case Styles

Metric shown in italics.

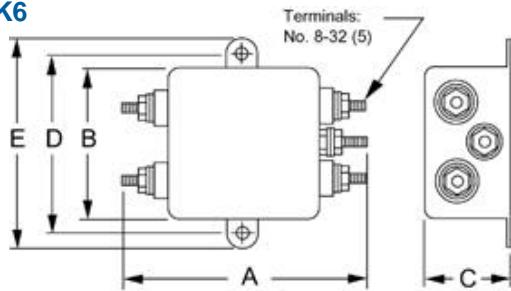
### 20EK1/20VK1



Typical dimensions

Terminals:  $\frac{.250}{6.35}$  (5) Holes:  $\frac{.07}{1.8}$  Dia.(4) Slot:  $\frac{.07 \times .16}{1.8 \times 4.1}$  Mounting holes:  $\frac{.188}{4.78}$  Dia.(2)

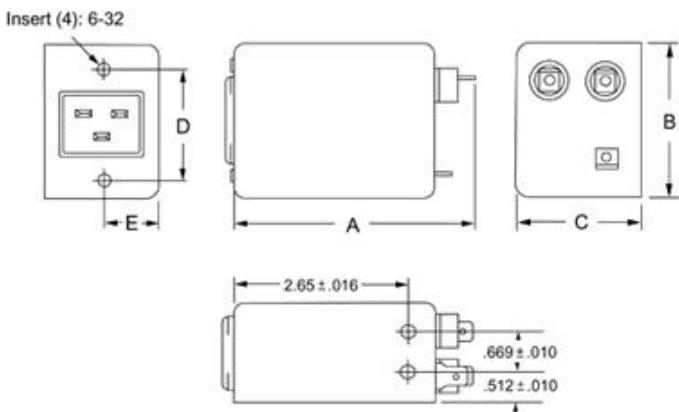
### 20VK6



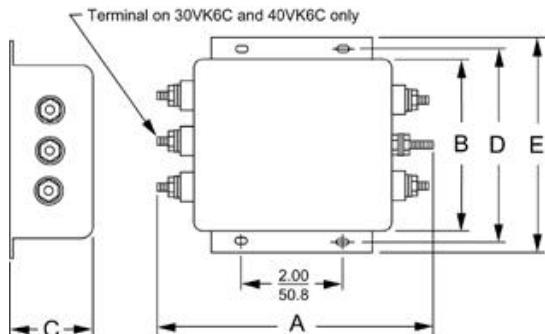
Typical dimensions

Mounting holes:  $\frac{.188}{4.78}$  Dia. (2) Torque:  $18 \pm 2$  in.lb.

### 20VK7



### 30VK6 & 30VK6C, 40VK6 & 40VK6C



Typical Dimensions

Mounting holes:  $\frac{.188}{4.78}$  Dia. (2) Slots:  $\frac{.250}{6.35} \times \frac{.156}{3.96}$  (4) Terminals: No. 8-32 (5)

Torque:  $18 \pm 2$  in.lb.

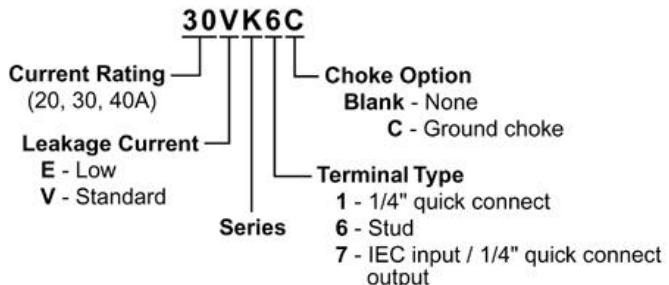
## Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\frac{.015}{.38}$	E (max)
20VK1,	<u>3.35</u>	<u>2.56</u>	<u>1.53</u>	<u>2.938</u>	<u>3.35</u>
20EK1	<u><math>\frac{85.1}{87.9}</math></u>	<u><math>\frac{65.0}{65.0}</math></u>	<u><math>\frac{38.9}{38.9}</math></u>	<u><math>\frac{74.63}{74.63}</math></u>	<u>85.1</u>
20VK6	<u><math>\frac{3.46}{87.9}</math></u>	<u><math>\frac{2.56}{65.0}</math></u>	<u><math>\frac{1.53}{38.9}</math></u>	<u><math>\frac{2.938}{74.63}</math></u>	<u><math>\frac{3.35}{85.1}</math></u>
20VK7	<u><math>\frac{3.8}{96.52}</math></u>	<u><math>\frac{2.28}{57.9}</math></u>	<u><math>\frac{1.78}{50.8}</math></u>	<u><math>\frac{1.575}{40.39}</math></u>	<u><math>\frac{.846 \pm .01}{21.49 \pm .25}</math></u>
30VK6	<u><math>\frac{5.34}{135.6}</math></u>	<u><math>\frac{3.38}{85.9}</math></u>	<u><math>\frac{1.53}{38.9}</math></u>	<u><math>\frac{3.75}{95.25}</math></u>	<u><math>\frac{4.2}{106.7}</math></u>
30VK6C	<u><math>\frac{5.34}{135.6}</math></u>	<u><math>\frac{3.38}{85.9}</math></u>	<u><math>\frac{1.53}{38.9}</math></u>	<u><math>\frac{3.75}{95.25}</math></u>	<u><math>\frac{4.2}{106.7}</math></u>
40VK6	<u><math>\frac{5.34}{135.6}</math></u>	<u><math>\frac{3.38}{85.9}</math></u>	<u><math>\frac{1.53}{38.9}</math></u>	<u><math>\frac{3.75}{95.25}</math></u>	<u><math>\frac{4.2}{106.7}</math></u>
40VK6C	<u><math>\frac{5.34}{135.6}</math></u>	<u><math>\frac{3.38}{85.9}</math></u>	<u><math>\frac{1.53}{38.9}</math></u>	<u><math>\frac{3.75}{95.25}</math></u>	<u><math>\frac{4.2}{106.7}</math></u>

## Ordering Information

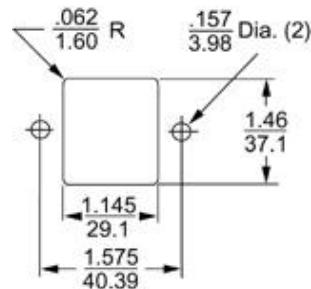
Consult your local Corcom sales representative for pricing.



## Available Part Numbers

20VK1	30VK6
20EK1	30VK6C
20VK6	40VK6
20VK7	40VK6C

## Recommended Panel Cutout



Panel Cutout (back mount)