

K Series

General Purpose RFI Power Line Filters
Best Buy for High Impedance Load
1, 2, 3, 5, 10A Models

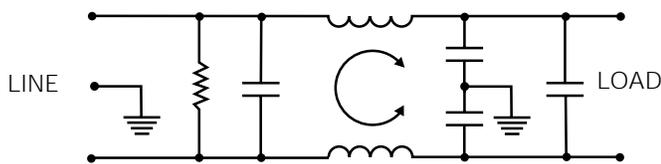


UL Recognized
CSA Certified
VDE Approved
SEV Approved*

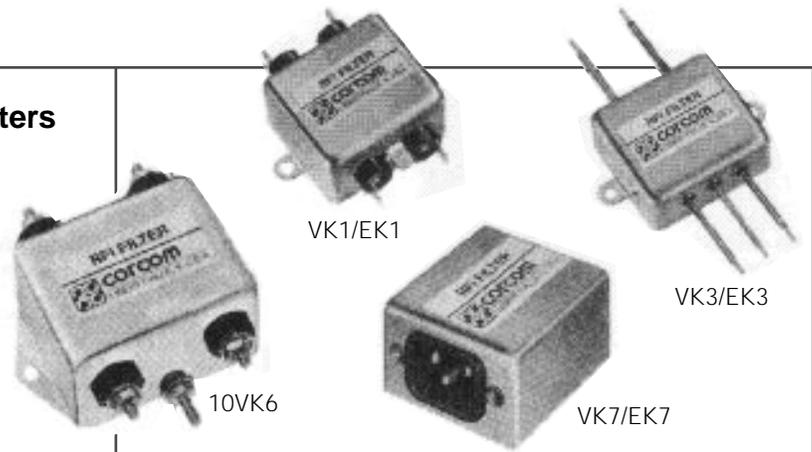
K Series

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 SEV, VDE portable equipment, and (120 Volt) UL544 nonpatient medical equipment.

Electrical Schematic



Resistor location for reference only.



Specifications

	VK Models	EK Models
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:	@ 120 VAC	@ 250 VAC
1VK/1EK	1A	1A
2VK/2EK	2A	2A
3VK/3EK	3A	3A
5VK/5EK	5A	5A
10VK/10EK	10A	8A
10VK6	10A	8A

Minimum insertion loss in dB:
Line-to-ground in 50 ohm circuit

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

EK Models

1A, 3A	15	29	35	45	45	50
2A, 5A, 10A	8	19	25	38	40	45

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz					
	.15	.5	1	5	10	30

VK, EK Models

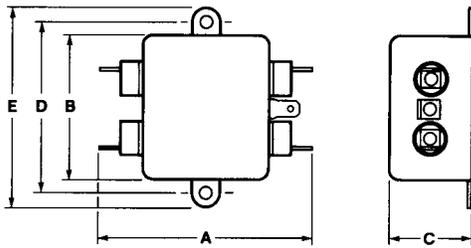
1A, 3A	-	-	48	55	50	35
2A, 5A, 10A	-	-	30	50	30	30

* EK models only.

Case Styles

Metric shown in italics.

K1

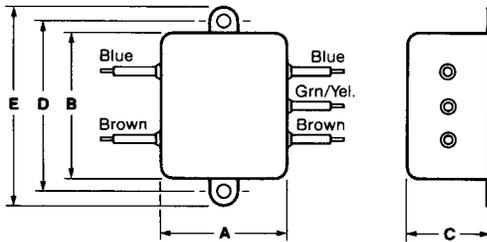


Typical dimensions

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)

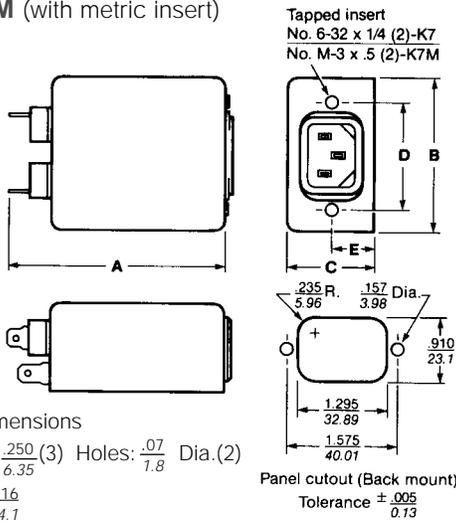
K3



Typical dimensions

Wire leads: $\frac{4.0}{101.6}$ Min. Mounting holes: $\frac{.188}{4.78}$ Dia. (2)

K7 & K7M (with metric insert)

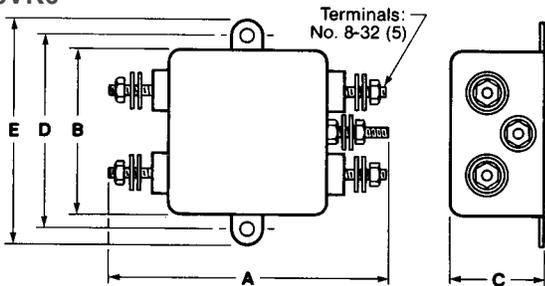


Typical dimensions

Terminals: $\frac{.250}{6.35}$ (3) Holes: $\frac{.07}{1.8}$ Dia. (2)

Slot: $\frac{.07 \times .16}{1.8 \times 4.1}$

10VK6



Torque 18±2 in. lb.

Typical dimensions

Mounting holes: $\frac{.188}{4.78}$ Dia. (2)

Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
1VK1, 1EK1	3.1	2.07	0.91	2.375	2.81
2VK1, 2EK1	78.7	52.6	23.1	60.33	71.4
1VK3, 1EK3	1.81	2.07	0.91	2.375	2.81
2VK3, 2EK3	46.0	52.6	23.1	60.33	71.4
3VK1, 3EK1	3.10	2.07	1.16	2.375	2.81
5VK1, 5EK1	78.7	52.6	29.5	60.33	71.4
3VK3, 3EK3	1.81	2.07	1.16	2.375	2.81
5VK3, 5EK3	46.0	52.6	29.5	60.33	71.4
3VK6, 3VK7M	3.21	2.25	1.28	1.575	0.63 [†]
3EK7, 3EK7M	81.5	57.2	32.5	40.01	16.0 [†]
5VK7, 5VK7M	3.21	2.25	1.28	1.575	0.63 [†]
5EK7, 5EK7M	81.5	57.2	32.5	40.01	16.0 [†]
10VK1, 10EK1	3.35	2.07	1.16	2.375	2.81
	85.1	52.6	29.5	60.33	71.4
10VK3, 10EK3	2.07	2.07	1.16	2.375	2.81
	52.6	52.6	29.5	60.33	71.4
10VK6	3.46	2.07	1.16	2.375	2.81
	87.9	52.6	29.5	60.33	71.4
10VK7, 10VK7M	3.71	2.25	1.28	1.575	0.63 [†]
10EK7, 10EK7M	94.2	57.2	32.5	40.01	16.0 [†]

[†] $\pm .02$
 $\pm .5$

Pricing

Consult your local Corcom sales representative for pricing.

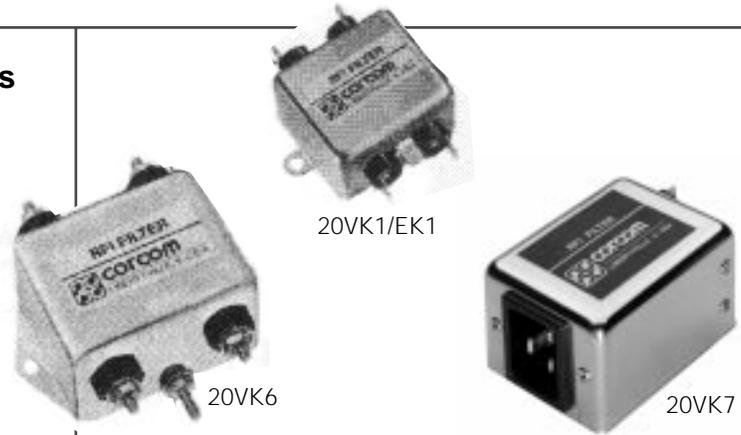
Part No.	Part No.	Part No.
1VK1	10VK3	5EK3
1VK3	10VK6	5EK7
2VK1	10VK7	5EK7M
2VK3	10VK7M	10EK1
3VK1	1EK1	10EK3
3VK3	1EK3	10EK7
3VK7	2EK1	10EK7M
3VK7M	2EK3	
5VK1	3EK1	
5VK3	3EK3	
5VK7	3EK7	
5VK7M	3EK7M	Line Cord:
10VK1	5EK1	No. GA400

K Series

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Best Buy for High Impedance Load
20, 30A Models



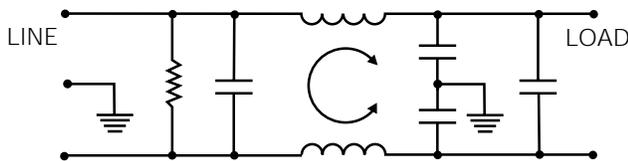
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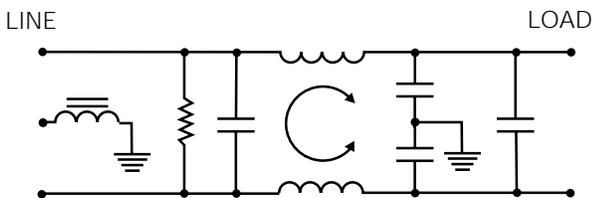
K Series

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 SEV, VDE portable equipment, and (120 Volt) UL544 nonpatient medical equipment.

Electrical Schematics



30VK6C Model (Inductor in Ground Line)



Resistor location for reference only.

*EK Models only

Specifications

	VK Models	EK Models
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:	@ 120 VAC	@ 250 VAC
20VK/20EK	20A	16A
30VK6/30VK6C	30A	25A

Minimum insertion loss in dB:
Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz					
	.15	.5	1	5	10	30

VK Models

20A, 30A, 40A 6 19 28 42 45 50

EK Models

20A 8 19 25 38 40 45

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz					
	.15	.5	1	5	10	30

VK Models

20A 6 6 30 50 30 30

30A 2 40 60 65 57 55

40A 2 40 60 65 57 55

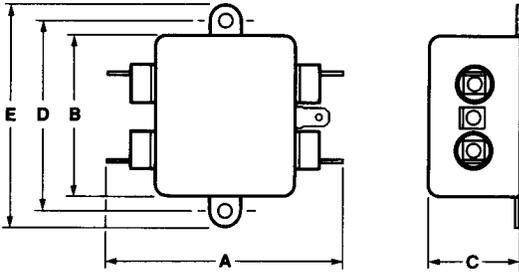
EK Models

20A, 30A 6 6 30 50 30 30

Case Styles

Metric shown in italics.

K1

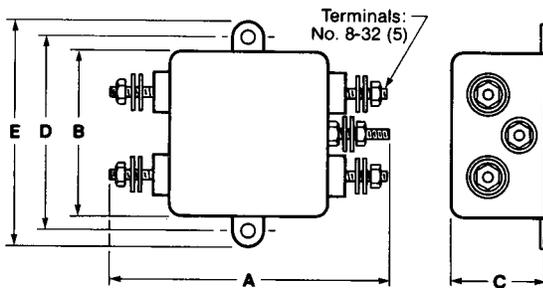


Typical dimensions

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)

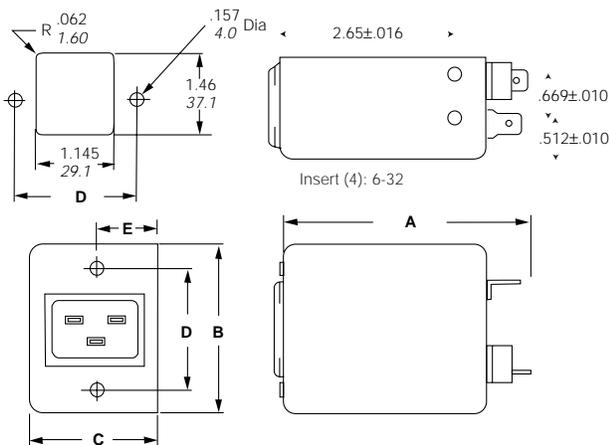
20VK6 (with metric insert)



Typical dimensions

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

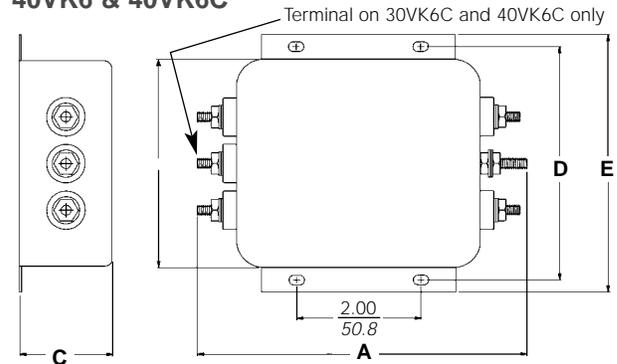
20VK7 (with metric insert)



Case Style

Metric shown in italics.

30VK6 & 30VK6C, 40VK6 & 40VK6C



Terminals: No. 8-32 (5) Slots: $\frac{.250}{6.35} \times \frac{.156}{3.96}$ (4)

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

Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
20VK1,	$\frac{3.35}{85.1}$	$\frac{2.56}{65.0}$	$\frac{1.53}{38.9}$	$\frac{2.938}{74.63}$	$\frac{3.35}{85.1}$
20EK1					
20VK6	$\frac{3.46}{87.9}$	$\frac{2.56}{65.0}$	$\frac{1.53}{38.9}$	$\frac{2.938}{74.63}$	$\frac{3.35}{85.1}$
20VK7	$\frac{3.8}{96.52}$	$\frac{2.28}{57.91}$	$\frac{1.78}{50.8}$	$\frac{1.575}{40.39}$	$\frac{.846 \pm .01}{21.49 \pm .25}$
30VK6	$\frac{5.34}{135.6}$	$\frac{3.38}{85.9}$	$\frac{1.53}{38.9}$	$\frac{3.75}{95.25}$	$\frac{4.2}{106.7}$
30VK6C	$\frac{5.34}{135.6}$	$\frac{3.38}{85.9}$	$\frac{1.53}{38.9}$	$\frac{3.75}{95.25}$	$\frac{4.2}{106.7}$
40VK6	$\frac{5.34}{135.6}$	$\frac{3.38}{85.9}$	$\frac{1.53}{38.9}$	$\frac{3.75}{95.25}$	$\frac{4.2}{106.7}$
40VK6C	$\frac{5.34}{135.6}$	$\frac{3.38}{85.9}$	$\frac{1.53}{38.9}$	$\frac{3.75}{95.25}$	$\frac{4.2}{106.7}$

Pricing

Consult your local Corcom sales representative for pricing.

Part No.	Part No.
20VK1	30VK6
20EK1	30VK6C
20VK6	40VK6
20VK7	40VK6C