

# SK Series

**3, 6, & 10 Amp  
Smallest, Lowest-Cost  
RFI Power Line Filters  
for SMPS Emission Control**



**UL Recognized  
CSA Certified  
VDE Approved  
SEV Approved\***

## SK Series – 3, 6 & 10 Amp Models

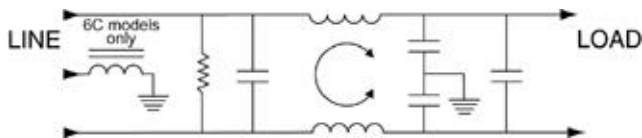
This series of RFI filters was designed to reduce conducted noise to acceptable limits for equipment that must comply with the FCC specifications in the USA and CISPR specifications in Europe.

The SK (Super K) series filters use significantly higher element values than the general purpose K series, which makes them better suited for equipment with line-to-ground and line-to-line conducted emissions, including switch mode power supplies.

The ESK models meet the very low leakage current requirements of SEV, VDE portable equipment and (120 Volt) UL 544 nonpatient medical equipment.

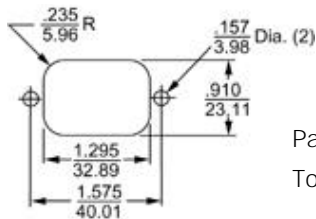
20 and 30 amp SK models on page 72.

## Electrical Schematic



Resistor location for reference only.

## Recommended Panel Cutout (SK7 & SK7M)



Panel Cutout (Back mount)  
Tolerance  $\pm \frac{.005}{0.13}$

## Line Cord

Line Cord No. GA400:  
7 1/2 foot, 3-conductor line cord to mate with SK7 models.

\*ESK models only.



## Specifications

	VSK Models	ESK 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:	<b>@120 VAC</b>	<b>@ 250 VAC</b>
3VSK/3ESK	3A	3A
6VSK/6ESK	6A	5A
10VSK/10ESK	10A	8A
Maximum current rated peaks:		
3VSK/3ESK	10A	
6VSK/6ESK	18A	
10VSK/10ESK	30A	

## Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz								
	.01	.08	.1	.15	.5	1	5	10	30

### VSK

3A, 6A, 10A	4	23	25	29	43	44	42	42	30
-------------	---	----	----	----	----	----	----	----	----

### ESK

3A, 6A, 10A	4	22	24	28	42	40	36	36	27
-------------	---	----	----	----	----	----	----	----	----

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz								
	.01	.08	.1	.15	.5	1	5	10	30

### VSK

3A, 6A	1	3	10	25	59	65	62	40	40
10A	1	3	3	10	55	65	65	50	50

### ESK

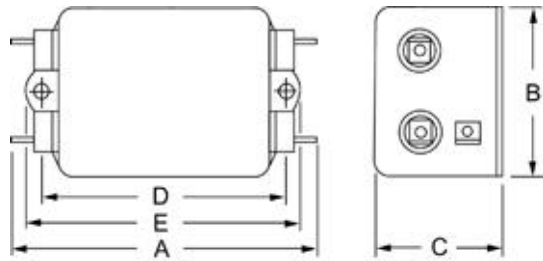
3A, 6A	1	3	10	25	59	65	62	40	40
10A	1	3	3	10	55	65	65	65	45

# Series SK

## Case Styles

Metric shown in italics.

### SK1

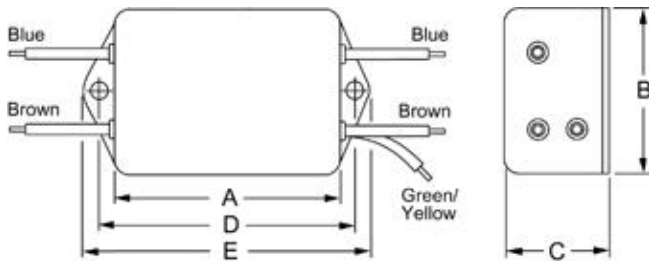


Typical dimensions

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)

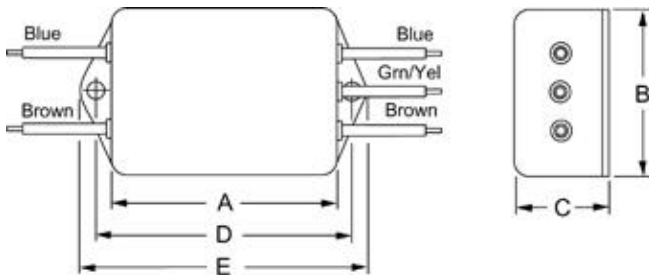
### 3A-SK3



Typical dimensions

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

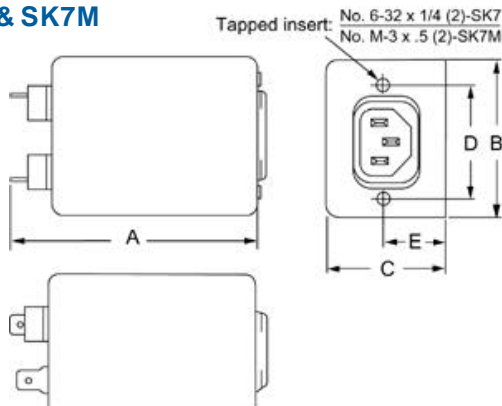
### 6A & 10A-SK3



Typical dimensions

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

### SK7 & SK7M



Typical dimensions

Terminals:  $\frac{.250}{6.35}$  (3) Holes:  $\frac{.07}{1.8}$  Dia.(2) Slot:  $\frac{.07 \times .16}{1.8 \times 4.1}$

## Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
3VSK1, 3ESK1	$\frac{3.85}{97.8}$	$\frac{2.07}{52.6}$	$\frac{1.16}{29.5}$	$\frac{2.938}{74.63}$	$\frac{3.35}{85.1}$
3VSK3, 3ESK3	$\frac{2.56}{65.0}$	$\frac{2.07}{52.6}$	$\frac{1.16}{29.5}$	$\frac{2.938}{74.63}$	$\frac{3.35}{85.1}$
3VSK7, 3VSK7M	$\frac{3.21}{81.5}$	$\frac{2.25}{57.2}$	$\frac{1.53}{38.9}$	$\frac{1.575}{40.01}$	$\frac{0.63}{16.0}$ †
3ESK7, 3ESK7M	$\frac{81.5}{2067.0}$	$\frac{57.2}{1452.0}$	$\frac{38.9}{988.0}$	$\frac{40.01}{1016.0}$	$\frac{16.0}{406.4}$
6VSK1, 6ESK1	$\frac{4.34}{110.2}$	$\frac{2.25}{57.2}$	$\frac{1.28}{32.5}$	$\frac{3.427}{87.05}$	$\frac{3.83}{97.3}$
6VSK3, 6ESK3	$\frac{3.05}{77.5}$	$\frac{2.25}{57.2}$	$\frac{1.28}{32.5}$	$\frac{3.427}{87.05}$	$\frac{3.83}{97.3}$
6VSK7, 6VSK7M	$\frac{3.21}{81.5}$	$\frac{2.25}{57.2}$	$\frac{1.78}{45.2}$	$\frac{1.575}{40.01}$	$\frac{0.63}{16.0}$ †
6ESK7, 6ESK7M	$\frac{81.5}{2067.0}$	$\frac{57.2}{1452.0}$	$\frac{45.2}{1148.0}$	$\frac{40.01}{1016.0}$	$\frac{16.0}{406.4}$
10VSK1, 10ESK1	$\frac{4.97}{126.2}$	$\frac{2.25}{57.2}$	$\frac{1.78}{45.2}$	$\frac{4.063}{103.2}$	$\frac{4.46}{113.3}$
10VSK3, 10ESK3	$\frac{3.69}{93.7}$	$\frac{2.25}{57.2}$	$\frac{1.78}{45.2}$	$\frac{4.063}{103.2}$	$\frac{4.46}{113.3}$
10VSK7, 10VSK7M	$\frac{4.34}{110.0}$	$\frac{2.25}{57.2}$	$\frac{1.78}{45.2}$	$\frac{1.575}{40.01}$	$\frac{0.63}{16.0}$ †
10ESK7, 10ESK7M	$\frac{110.0}{2794.0}$	$\frac{57.2}{1452.0}$	$\frac{45.2}{1148.0}$	$\frac{40.01}{1016.0}$	$\frac{16.0}{406.4}$

†  $\pm .02$   
 $\pm .5$

## Ordering Information

Consult your local Corcom sales representative for pricing.

## Available Part Numbers

3VSK1	3ESK1
3VSK3	3ESK3
3VSK7	3ESK7
3VSK7M	3ESK7M
6VSK1	6ESK1
6VSK3	6ESK3
6VSK7	6ESK7
6VSK7M	6ESK7M
10VSK1	10ESK1
10VSK3	10ESK3
10VSK7	10ESK7
10VSK7M	10ESK7M

Line Cord No. GA400

