



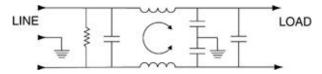


UL Recognized CSA Certified VDE Approved

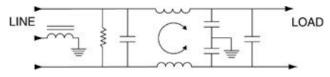
## **K Series**

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**

Maximum leakage current,	VK Models	EK Models	
each line-to-ground			
@ 120 VAC 60 Hz:	.4 mA	.21 mA	
@ 250 VAC 50 Hz:	.7 mA	.36 mA	

Hipot rating (one minute):

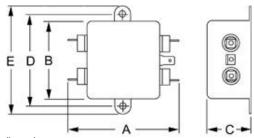
line-to-ground 2250 VDC 11450 VDC
Operating frequency: 50/60 Hz
Rated voltage: 120/250 VAC

Rated current:	@120 VAC	@ 250 VAC
20VK/20EK	20A	16A
30VK6/30VK6C	30A	25A
40VK6/40VK6C	40A	36A

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

Current	Frequency-MHz					
Rating	.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 cir	cuit					
Current	Frequency-MHz					
Rating	.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

#### 20EK1/20VK1



Typical dimensions

Terminals:  $\frac{.250}{6.35}$  (5) Holes:  $\frac{.07}{1.8}$  Dia.(4) Slot:  $\frac{.07 \times .16}{1.8 \times 4.7}$  Mounting holes:  $\frac{.188}{4.78}$  Dia.(2)

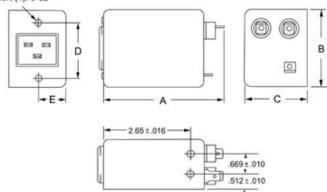
# 20VK6 No. 8-32 (5) D (4)

Typical dimensions

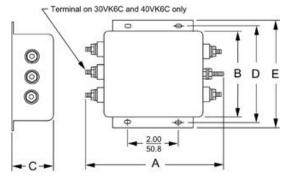
Mounting holes:  $\frac{.188}{4.78}$  Dia. (2) Torque: 18 ± 2 in.lb.

#### 20VK7

Insert (4): 6-32



#### 30VK6 & 30VK6C. 40VK6 & 40VK6C



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

Torque: 18 ± 2 in.lb.

Libertyville, IL (847) 680-7400 -

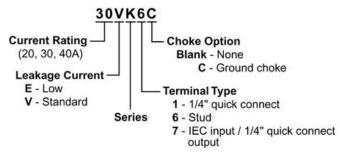
#### **Case Dimensions**

Metric shown in italics.

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

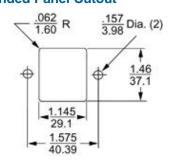
# **Ordering Information**

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)

