

General Purpose RFI Power Line Filters - Ideal for High Impedance Load

K Series

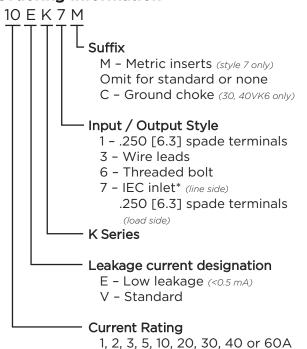
UL Recognized CSA Certified VDE Approved**



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



*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 Tempe	rature Range	9
(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

/ trailable I al		
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.

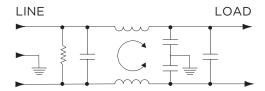
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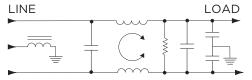


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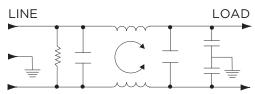
Electrical Schematics



30 & 40VK6C (Inductor in Ground Line)

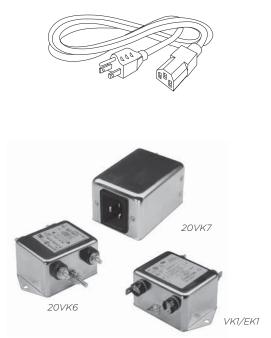


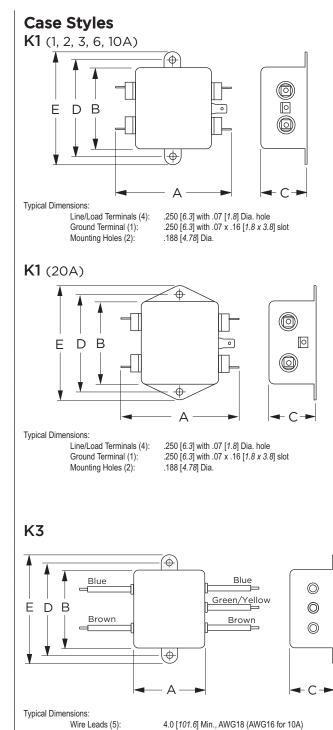
60VK6



Accessories

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





Mounting Holes (2):

4.0 [101.6] Min., AWG18 (AWG16 for 10A) .188 [4.78] Dia.

50

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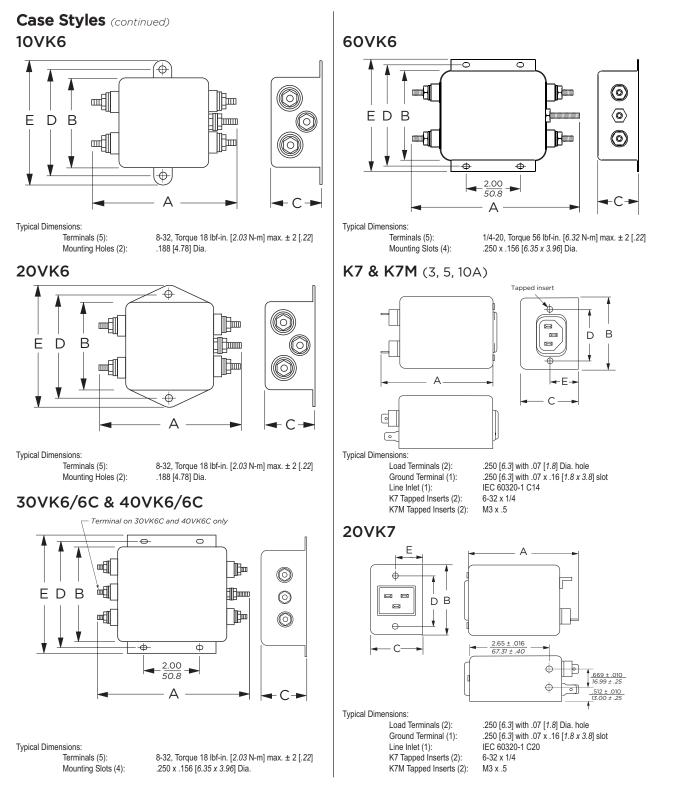


Corcom Product Guide

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General Purpose RFI Power Line Filters (continued

K Series



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General Purpose RFI Power Line Filters (continued)

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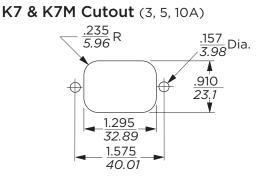
Case Dimensions

Part No.	Α	В	С	D	Е
	(max)	(max)	(max)	<u>±.015</u> ±.38	(max)
1VK1, 1EK1,	3.1	2.07	0.91	2.375	2.81
2VK1, 2EK1	78.7	52.6	23.1	60.33	74.1
1VK3, 1EK3,	1.81	2.07	0.91	2.375	2.81
2VK3, 2EK3	46.0	52.6	23.1	60.33	74.1
3VK1, 3EK1,	3.10	2.07	1.16	2.375	2.81
5VK1, 5EK1	78.7	52.6	29.5	60.33	74.1
3VK3, 3EK3,	1.81	2.07	1.16	2.375	2.81
5VK5, 5EK3	46.0	52.6	29.5	60.33	74.4
3VK7/7M,	3.21	2.25	1.28	1.575	0.63*
3EK7/7M	81.5	57.2	32.5	40.01	16.0*
5VK7/7M,	3.21	2.25	1.28	1.575	0.63*
5EK7/7M	81.5	57.2	32.5	40.01	16.0*
10VK1,	3.35	2.07	1.16	2.375	2.81
10EK1	85.1	52.6	29.5	60.33	71.4
10VK3,	2.07	2.07	1.16	2.375	2.81
10EK3	52.6	52.6	29.5	60.33	71.4
10VK6	3.46	2.07	1.16	2.375	2.81
10 % 10	87.9	52.6	29.5	60.33	71.4
10VK7/7M,	3.71	2.25	1.28	1.575	0.63*
10EK7/7M	94.2	57.2	32.5	40.01	16.0*
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
20000	87.9	65.0	38.9	74.63	85.1
20VK7	3.8	2.28	1.78	1.575	.846
20 V I \/	90.4	54.6	39.6	74.63	85.8'
30VK6,	5.34	3.38	1.53	3.75	4.20
30VK6C	135.6	85.9	38.9	95.25	106.7
40VK6,	5.34	3.38	1.53	3.75	4.20
40VK6C	135.6	85.9	38.9	95.25	106.7
601/1/6	6.0	3.38	1.53	3.75	4.20
60VK6	152.4	85.9	38.9	95.25	106.7

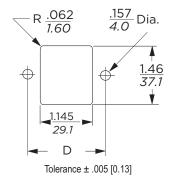
*±0.02 [0.5] 1±0.01 [0.25]

5EK

Recommended Panel Cutouts



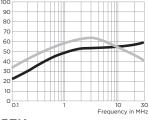
20VK7 Cutout



Performance Data Typical Insertion Loss

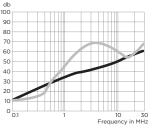
Measured in closed 50 Ohm system

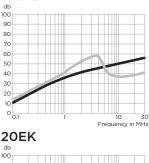


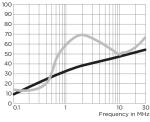


20EK

2 & 10EK







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Performance Data (continued)

Typical Insertion Loss

Measured in closed 50 Ohm system

Frequency in MHz

20VK

db 100

90

80

70

60

50

40

30

20

db 100

90

80

70

60

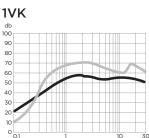
50

40

30

0

60VK



10VK

db 100

90

80

70

60

50

40

30

20

db 100

90

80

70

60

50

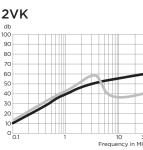
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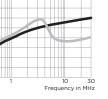
30

20

0

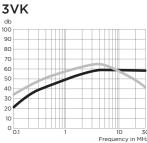
40VK & 40VK6C





Freq

10 Frequency in MHz

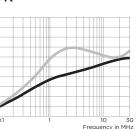


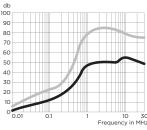


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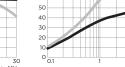
70

60



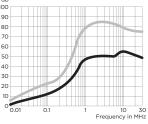








30VK & 30VK6C





Minimum Insertion Loss

Freq

Measured in closed 50 Ohm system Common Mode / Asymmetrical (Line to Ground)

10 30 1Hz

Frequency in

Current	Frequency – MHz					
Rating	.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	Frequency – MHz					
Rating	.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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