

#### Enhanced Differential Mode Performance K Series RFI Line Filters



Electronics



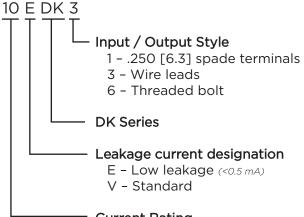
**7** Тусо

UL Recognized CSA Certified VDE Approved

#### **DK Series**

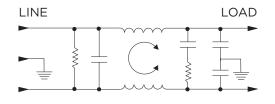
- Higher performance Line to Line attenuation than the K Series
- E version meets the low leakage current requirements of VDE portable equipment and non-patient care equipment
- V version features same high performance with more cost-effective design

# **Ordering Information**



Current Rating 1, 3, 6, 10, or 20A

# **Electrical Schematic**





#### Specifications

Maximum leakage curren	t each Line to G	round:
	VDK Models	EDK Models
@ 120 VAC 60 Hz:	.4 mA	.22 mA
@250 VAC 50 Hz:	.7 mA	.38 mA
Hipot rating (one minute)	):	
Line to Ground:		2250 VDC
Line to Line:		1450 VDC
Rated Voltage (max):		250 VAC
<b>Operating Frequency:</b>		50/60 Hz
Rated Current:		1 to 20A
Operating Ambient Temp	erature Range	
(at rated current I <sub>r</sub> ):	-10	°C to +40°C
In an ambient tempera	ature (T <sub>a</sub> ) highe	r than +40°C
the maximum operating		

the maximum operating current ( $I_0$ ) is calculated as follows:  $I_0 = I_r \sqrt{(85-Ta)/45}$ 

#### **Available Part Numbers**

1VDK1	1EDK1
1VDK3	1EDK3
3VDK1	3EDK1
3VDK3	3EDK3
6VDK1	6EDK1
6VDK3	6EDK3
10VDK1	10EDK1
10VDK3	10EDK3
20VDK1	20EDK1
20VDK6	

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.

<sup>18</sup> 

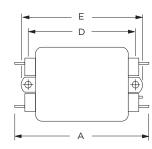
#### Enhanced Differential Mode K Series RFI Power Line Filters (continued)

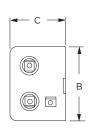
# **DK Series**

**Electronics** 

#### **Case Styles**

# VDK1 / EDK1

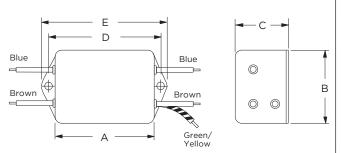






Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

# VDK3 / EDK3



.188 [4.75] Dia.

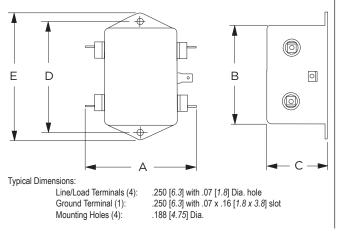
Typical Dimensions:

Wire leads (5): Mounting Holes (2): 4.0 [101.6] Min., AWG18 (AWG16 for 10A) .188 [4.75] Dia.

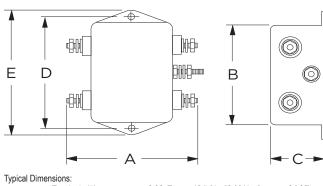
.250 [6.3] with .07 [1.8] Dia. hole

.250 [6.3] with .07 x .16 [1.8 x 3.8] slot

# 20VDK1 / 20EDK1



20VDK6



#### Terminals (5): Mounting Holes (2):

8-32, Torque 18 lbf-in. [2.03 N-m] max. ± 2 [.22] .188 [4.75] Dia.

# **Case Dimensions**

Part No.	A (max)	B (max)	C (max)	<b>D</b> <u>± .015</u> ± .38	E (max)
1VDK1, 1EDK1	3.35	2.07	1.16	2.375	2.81
	85.1	52.6	29.5	60.33	71.4
1VDK3, 1EDK3	2.07	2.07	1.16	2.375	2.81
	52.6	52.6	29.5	60.33	71.4
3VDK1, 3EDK1,	3.85	2.07	1.16	2.938	3.35
6VDK1, 6EDK1	97.8	52.6	29.5	74.63	85.1
3VDK3, 3EDK3,	2.56	2.07	1.16	2.938	3.35
6VDK3, 6EDK3	65.0	52.6	29.5	74.63	85.1
10VDK1,	3.85	2.07	1.32	2.938	3.35
10EDK1	97.8	52.6	33.5	74.63	85.1
10VDK3,	2.57	2.07	1.32	2.938	3.35
10EDK3	65.3	52.6	33.5	74.63	85.1
20VDK1,	3.85	2.58	1.78	2.938	3.35
20EDK1	97.8	65.5	45.2	74.63	85.1
	3.46	2.58	1.78	2.938	3.35
20VDK6	87.9	65.5	45.2	74.63	85.1

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.



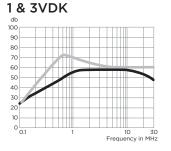
#### Enhanced Differential Mode K Series RFI Power Line Filters (continued)

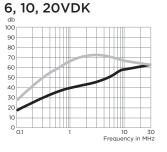
# **DK Series**

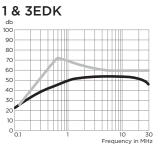
#### **Performance Data**

#### **Typical Insertion Loss**

Measured in closed 50 Ohm system



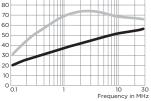






6, 10, 20EDK

10



10

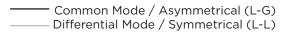
50

60

30

45

55



#### **Minimum Insertion Loss**

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)						Differential Mode / Symmetrical (Line to Line)						
Current		Fr	equen	cy – M	Hz		Current	Frequency – MHz				
Rating	.15	.5	1	5	10	30	Rating	.15	.5	1	5	10
VDK Models							VDK & EDK Mod	els				
1A, 3A	18	30	40	48	48	40	1A, 3A	18	47	62	60	50
6A, 10A, 20A	10	22	30	39	44	50	6A, 10A, 20A	20	43	55	65	60
EDK Models												
1A, 3A	17	27	33	45	45	40						
6A, 10A, 20A	10	19	25	34	40	46						

ne)

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.

20