

Single and 2-phase RFI Filters for Industrial Applications

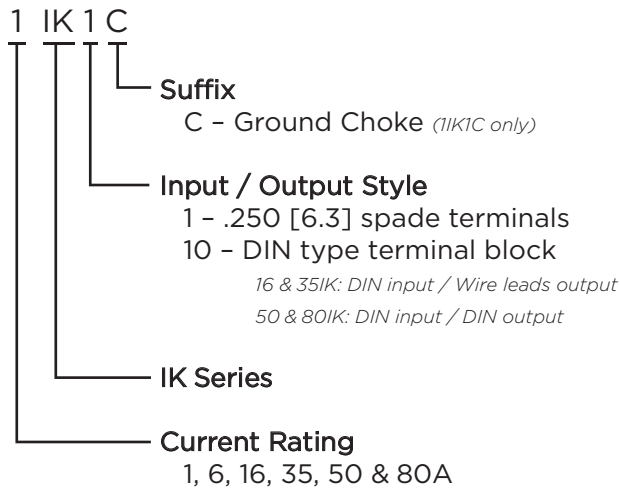
IK Series



IK Series

- Excellent performance for applications with high interference levels
- Designed for single or two-phase applications
- Wide current range
- For small to medium sized industrial equipment, power converters and variable speed motors
- Touch safe terminals on the 6 to 60A product provide easy connections and prevent inadvertent contact for safety in the most demanding applications

Ordering Information



Available Part Number

1IK1C	6IK1
16IK10	35IK10
50IK10	80IK10

Specifications

Maximum leakage current each Line to Ground:

@120 VAC 60 Hz:	1IK & 6IK:	0.6 mA
	16, 35 & 50IK:	1.7 mA
	80IK:	5.2 mA
@289 VAC 50 Hz:	1IK:	1.2 mA
@277 VAC 50 Hz:	6IK:	1.15 mA
	16, 35 & 50IK:	3.2 mA
	80IK:	9.9 mA

Hipot rating (one minute):

Line to Ground:	2250 VDC
Line to Line:	1450 VDC

Rated Voltage (max):

Line to Ground:	1IK	6 to 80IK
	289 VAC	500 VAC
Line to Line:	277 VAC	480 VAC

Operating Frequency:

50/60 Hz

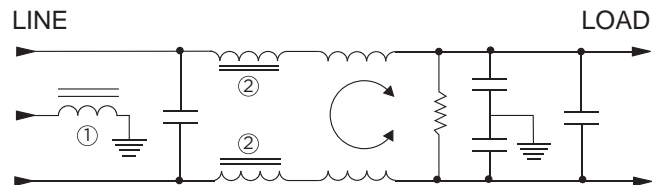
Rated Current:

1 to 80A

Operating Ambient Temperature Range

(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: $I_o = I_r \sqrt{(85-T_a)/45}$

Electrical Schematic



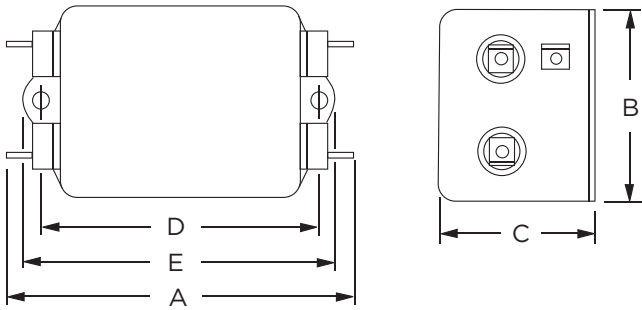
Note 1: 1IK1C only
Note 2: 6IK1 only

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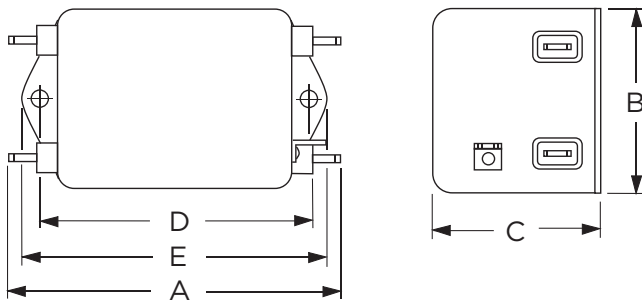
Case Styles

11K1C



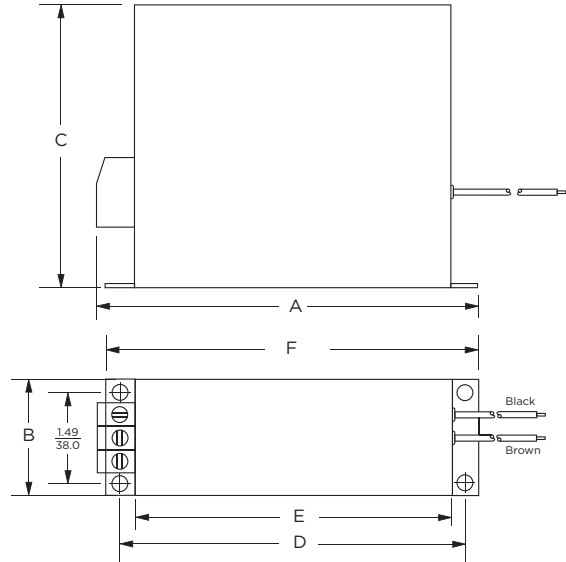
Typical Dimensions:
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
 Mounting Holes (2): .188 [4.78] Dia.

6IK1



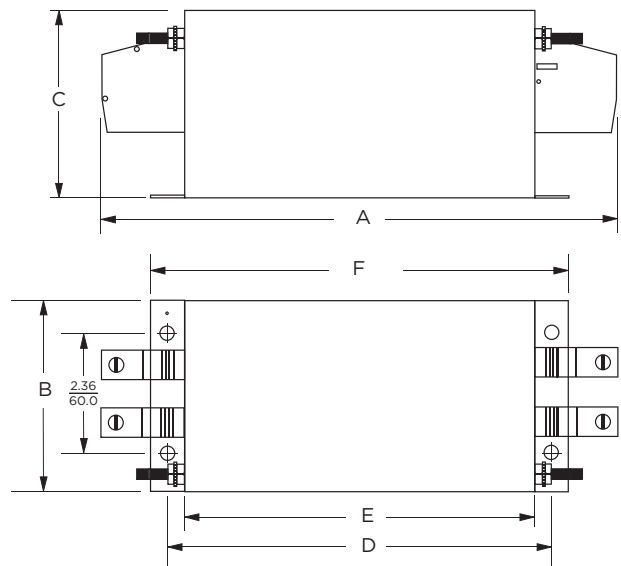
Typical Dimensions:
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
 Mounting Holes (2): .188 [4.78] Dia.

16 & 35IK10



Typical Dimensions:
 Input Terminals (3): DIN type terminal block
 Output Wire Leads (2): 7.0 [180.0] min.
 Mounting Holes (4): .216 [5.5] dia.

50 & 80IK10



Typical Dimensions:
 Line / Load terminals (4): DIN type terminal block
 Ground terminals (2): 1/4-20 screw
 Mounting Holes (4): .260 [6.5] dia.

1
RFI Power Line Filters

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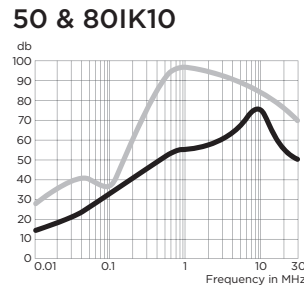
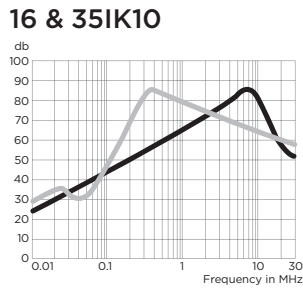
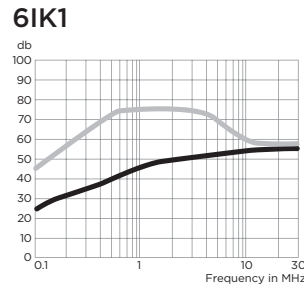
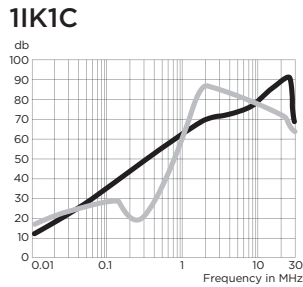
Case Dimensions

Part No.	A (max)	B (max)	C (max)	D $\pm .020$ $\pm .510$	E (max)	F $\pm .010$ $\pm .254$
1IK1C	3.85 <i>97.8</i>	2.07 <i>52.6</i>	1.53 <i>38.9</i>	2.93 <i>74.4</i>	3.35 <i>85.1</i>	-
6IK1	4.69 <i>119.1</i>	2.27 <i>57.7</i>	1.8 <i>45.7</i>	4.063 <i>103.2</i>	4.47 <i>113.5</i>	-
16IK10	6.28 <i>159.5</i>	1.97 <i>50.0</i>	4.76 <i>121.0</i>	5.90 <i>150.0</i>	5.35 <i>136.0</i>	6.34 <i>161.0</i>
35IK10	6.48 <i>164.5</i>	1.97 <i>50.0</i>	4.76 <i>121.0</i>	5.90 <i>150.0</i>	5.35 <i>136.0</i>	6.34 <i>161.0</i>
50IK10	9.45	3.94	3.54	6.89	6.3	7.48
80IK10	<i>240.0</i>	<i>100.0</i>	<i>90.0</i>	<i>175.0</i>	<i>160.0</i>	<i>190.0</i>

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[35IK10](#)