# RK Series

UL Recognized
CSA Certified
VDE Approved

## RK Series

- Compact
- Single stage
- Chassis mount
- Significant differential mode performance
- Suitable for industrial machinery
- Low input leakage current makes it suitable for portable equipment

## Ordering Information

10 E RK 1

- Input / Output Style
  1 – .250 [6.3] spade terminals
- RK Series
- Leakage current designation
  E – Low leakage *(<0.5 mA)*
- Current Rating
  3, 6, 10, 15 or 20A

## Available Part Numbers

| | |
|---|---|
| 3ERK1 | 6ERK1 |
| 10ERK1 | 15ERK1 |
| 20ERK1 | |

## Specifications

**Maximum leakage current each Line to Ground:**
@ 120 VAC 60 Hz: 0.16 mA
@250 VAC 50 Hz: 0.26 mA

**Hipot rating (one minute):**
Line to Ground: 2250 VDC
Line to Line: 1450 VDC

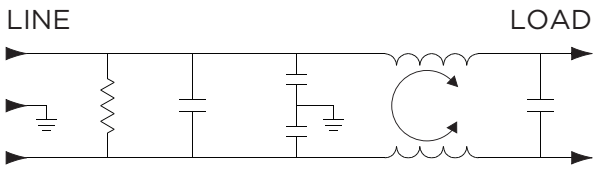
**Rated Voltage (max):** 250 VAC

**Operating Frequency:** 50/60 Hz

**Rated Current:** 3 to 20A

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

## Electrical Schematic








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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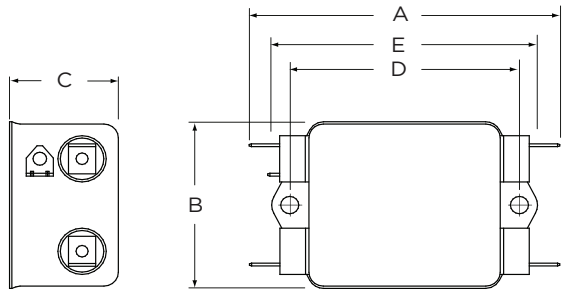
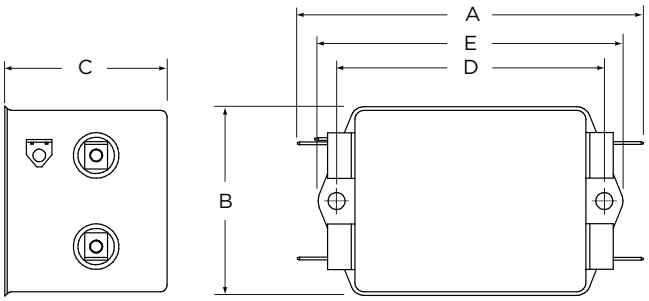
# RK Series

## Case Styles

### RK1 (3 & 6A)




### RK1 (10, 15 & 20A)




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. |

## Case Dimensions

| Part No. | A (max) | B (max) | C (max) | D ± .015 / ± .38 | E (max) |
|---|---|---|---|---|---|
| 3ERK1 | **3.35** *85.09* | **1.82** *46.23* | **1.16** *29.46* | **2.38** *74.68* | **2.78** *70.61* |
| 6ERK1 | **3.35** *85.09* | **1.82** *46.23* | **1.28** *32.51* | **2.38** *74.68* | **2.78** *70.61* |
| 10ERK1, 15ERK1, 20ERK1 | **3.85** *97.79* | **2.07** *52.58* | **1.78** *45.21* | **2.94** *74.67* | **3.35** *85.09* |



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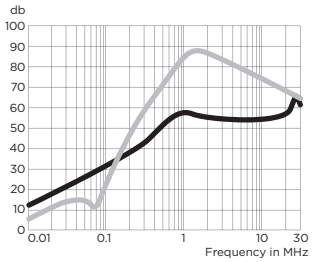
# RK Series

## Performance Data

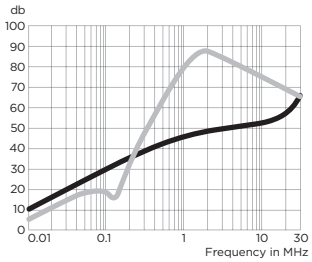
### Typical Insertion Loss

Measured in closed 50 Ohm system

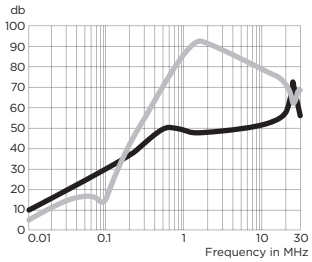
3RK



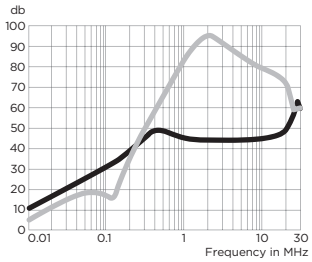

6RK



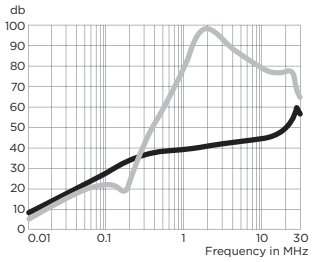

10RK




15RK




20RK




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

### Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | .05 | .10 | .15 | .5 | 1 | 2 | 5 | 10 | 20 | 30 |
| 3A | 21 | 27 | 30 | 43 | 49 | 50 | 50 | 48 | 50 | 49 |
| 6A | 19 | 29 | 29 | 37 | 43 | 44 | 48 | 46 | 50 | 48 |
| 10A | 20 | 27 | 31 | 45 | 45 | 44 | 46 | 47 | 53 | 44 |
| 15A | 21 | 28 | 31 | 45 | 43 | 41 | 42 | 42 | 47 | 57 |
| 20A | 19 | 25 | 29 | 34 | 36 | 38 | 40 | 41 | 43 | 52 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating | Frequency – MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | .05 | .10 | .15 | .5 | 1 | 2 | 5 | 10 | 20 | 30 |
| 3A | 9 | 20 | 35 | 67 | 78 | 78 | 72 | 66 | 61 | 60 |
| 6A | 14 | 14 | 13 | 59 | 74 | 80 | 72 | 68 | 61 | 60 |
| 10A | 14 | 12 | 30 | 65 | 80 | 84 | 78 | 70 | 60 | 50 |
| 15A | 15 | 13 | 20 | 61 | 76 | 88 | 70 | 72 | 64 | 50 |
| 20A | 16 | 19 | 16 | 54 | 74 | 90 | 74 | 67 | 61 | 54 |





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