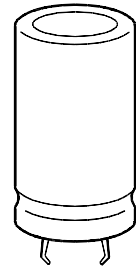


### Long-life grade capacitors

#### Applications

- Frequency converters
- Professional switch-mode power supplies in industrial electronics and in data processing equipment
- Switch-mode power supplies in entertainment electronics



KAL0274-A

#### Features

- High reliability
- Outstanding ripple current capability
- Low equivalent series resistance *ESR*
- Different case sizes available for each capacitance value

#### Construction

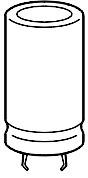
- Charge-discharge proof, polar
- Aluminum case, fully insulated
- Snap-in solder pins to hold component in place on PC-board
- Minus pole marking on case surface
- Minus pole not insulated from case
- Overload protection (safety vent)

#### Terminals

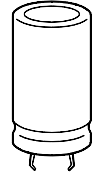
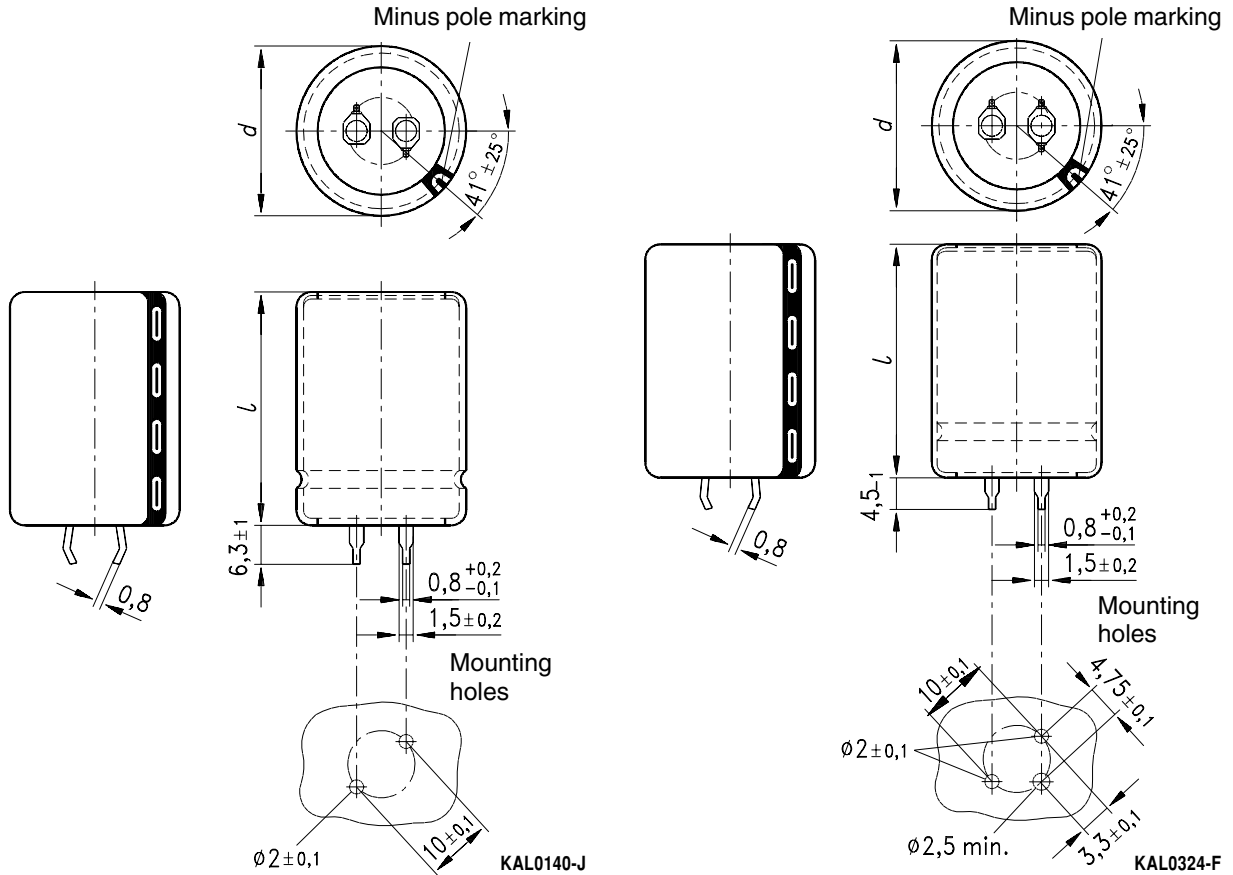
- Standard version with 2 terminals  
2 lengths available: 6,3 and 4,5 mm
- 3 terminals: length 4,5 mm  
(terminal arrangement ensures correct insertion)

#### Specifications and characteristics in brief

|  | B41505   | B43505  |
|--|--|---|
| Rated voltage $U_R$                                | 10 ... 100 VDC   | 200 ... 450 VDC   |
| Surge voltage $U_S$                                | $1,15 \cdot U_R$   | $1,15 \cdot U_R$ (for $U_R \leq 250$ VDC)<br>$1,10 \cdot U_R$ (for $U_R \geq 400$ VDC)        |
| Rated capacitance $C_R$                            | 560 ... 33 000 $\mu\text{F}$   | 100 ... 1 500 $\mu\text{F}$   |
| Capacitance tolerance                              | $\pm 20 \% \triangleq M$   | $\pm 20 \% \triangleq M$  |
| Dissipation factor $\tan \delta$<br>(20°C, 120 Hz) | max. $\tan \delta = 0,80$ ; $U_R = 10$ VDC<br>max. $\tan \delta = 0,60$ ; $U_R = 16$ VDC<br>max. $\tan \delta = 0,45$ ; $U_R = 25$ VDC<br>max. $\tan \delta = 0,40$ ; $U_R = 35$ VDC<br>max. $\tan \delta = 0,30$ ; $U_R = 50$ VDC<br>max. $\tan \delta = 0,20$ ; $U_R = 63 \dots 100$ VDC | $\tan \delta \leq 0,15$ for $U_R \leq 400$ VDC<br>$\tan \delta \leq 0,20$ for $U_R = 450$ VDC |
| Leakage current $I_L$<br>(5 min, 20°C)             | $I_L \leq 0,3 \mu\text{A} \cdot \left( \frac{C_R}{\mu\text{F}} \cdot \frac{U_R}{\text{V}} \right)^{0,7} + 4 \mu\text{A}$   |   |



|   | B41505   | B43505  |
|---|--|---|
| Self-inductance <i>ESL</i>  | Approx. 20 nH  |   |
| Useful life<br>105°C; $U_R$ ; $I_{\sim R}$<br>85°C; $U_R$ ; $I_{\sim \max}$<br>40°C; $U_R$ ; $2,1 \cdot I_{\sim R}$ | > 5 000 h<br>> 12 000 h<br>> 250 000 h   | > 5 000 h<br>> 11 000 h<br>> 200 000 h  |
| Requirements:   | $\Delta C/C \leq \pm 45$ % of initial value<br>$\tan \delta \leq 3$ times initial spec. limit<br>$I_L \leq$ initial specified limit<br><br>Failure percentage: $\leq 1$ %<br>Failure rate: $\leq 50$ fit ( $\leq 50 \cdot 10^{-9}/h$ )<br>(for definiton "fit", refer to chapter "Quality", page 62) | $\Delta C/C \leq \pm 30$ % of initial value<br>$\tan \delta \leq 3$ times initial spec. limit<br>$I_L \leq$ initial specified limit |
| Load life test<br>105°C; $U_R$ ; $I_{\sim R}$   | 5 000 h  | 4 000 h   |
| Post test requirements:   | $\Delta C/C \leq \pm 20$ % of initial value<br>$\tan \delta \leq 2$ times initial spec. limit<br>$I_L \leq$ initial specified limit  | $\Delta C/C \leq \pm 20$ % of initial value<br>$\tan \delta \leq 2$ times initial spec. limit<br>$I_L \leq$ initial specified limit |
| Voltage endurance test<br>85°C; $U_R$   | 2 000 h  | 2 000 h   |
| Post test requirements:   | $\Delta C/C \leq \pm 15$ % of initial value<br>$\tan \delta \leq 1,3$ times spec. limit<br>$I_L \leq$ initial specified limit  | $\Delta C/C \leq \pm 10$ % of initial value<br>$\tan \delta \leq 1,3$ times spec. limit<br>$I_L \leq$ initial specified limit       |
| Vibration resistance  | To IEC 68-2-6, test Fc:<br>displacement amplitude 0,35 mm, frequency range 10 ... 55 Hz,<br>acceleration max. 5 g, duration $3 \times 2$ h   |   |
| IEC climatic category   | To IEC 60068-1:<br>$U_R \leq 400$ VDC: 40/105/56 (– 40°C/+ 105°C/56 days damp heat test)<br>$U_R = 450$ VDC: 25/105/56 (– 25°C/+ 105°C/56 days damp heat test)   |   |
| Detail specification  | —  | Similar to CECC 30301-809   |
| Sectional specification   | IEC 60384-4  | IEC 60384-4   |

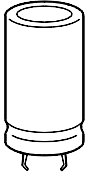

**Dimensional drawings**


Snap-in terminals, standard (length  $6,3 \pm 1$  mm). Also available in a shorter version with a length of  $4,5 - 1$  mm. For packing mode and ordering example see next page.

Snap-in capacitors are also available with 3 terminals (length  $4,5 - 1$  mm). For packing mode and ordering example see next page.

| Dimensions (mm) |           | Approx. weight (g) | Packing units (pieces) |
|-----------------|-----------|--------------------|------------------------|
| $d + 1$         | $l \pm 2$ |                    |                        |
| 22              | 25        | 9                  | 160                    |
| 22              | 30        | 12                 | 160                    |
| 22              | 35        | 15                 | 160                    |
| 22              | 40        | 18                 | 160                    |
| 22              | 45        | 20                 | 160                    |
| <hr/>           |           |                    |                        |
| 25              | 25        | 13                 | 130                    |
| 25              | 30        | 17                 | 130                    |
| 25              | 35        | 19                 | 130                    |
| 25              | 40        | 22                 | 130                    |
| 25              | 45        | 25                 | 130                    |

| Dimensions (mm) |           | Approx. weight (g) | Packing units (pieces) |
|-----------------|-----------|--------------------|------------------------|
| $d + 1$         | $l \pm 2$ |                    |                        |
| 30              | 25        | 20                 | 80                     |
| 30              | 30        | 23                 | 80                     |
| 30              | 35        | 29                 | 80                     |
| 30              | 40        | 36                 | 80                     |
| 30              | 45        | 41                 | 80                     |
| 30              | 50        | 46                 | 80                     |
| <hr/>           |           |                    |                        |
| 35              | 25        | 25                 | 60                     |
| 35              | 30        | 31                 | 60                     |
| 35              | 35        | 37                 | 60                     |
| 35              | 40        | 44                 | 60                     |
| 35              | 45        | 52                 | 60                     |
| 35              | 50        | 59                 | 60                     |



B41505 / B43505

Excellent Performance – 105 °C

### Packing of snap-in capacitors



For ecological reasons the packing is pure cardboard. Components can be withdrawn (in full or in part) in the correct position for insertion.

### Ordering codes

| Snap-in terminals<br>Version    | Identification in 3rd block of ordering code |
|---------------------------------|--|
| Standard terminals (6,3 ± 1) mm | M000   |
| Short terminals (4,5 –1) mm     | M007   |
| 3 terminals (4,5 –1) mm         | M002   |

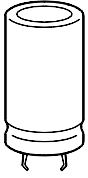
Ordering example:

B43505A9107M007 } snap-in capacitor with short terminals  
B43505A9107M002 } snap-in capacitor with 3 terminals


**Overview of available types**
**Type B 41 505**

| $U_R$ (VDC)      | 10                                | 16      | 25                 | 35                 | 50      | 63                 | 80      | 100                |
|------------------|-----------------------------------|---------|--------------------|--------------------|---------|--------------------|---------|--------------------|
| $C_R$ ( $\mu$ F) | Case dimensions $d \times l$ (mm) |         |                    |                    |         |                    |         |                    |
| 560              |                                   |         |                    |                    |         |                    |         | 25 × 25            |
| 680              |                                   |         |                    |                    |         |                    |         | 22 × 35            |
| 1 000            |                                   |         |                    |                    |         | 22 × 25            | 25 × 25 | 25 × 35<br>30 × 30 |
| 1 200            |                                   |         |                    |                    |         |                    | 30 × 25 |                    |
| 1 500            |                                   |         |                    |                    |         | 22 × 35            | 25 × 35 | 30 × 40            |
| 2 200            |                                   |         |                    | 22 × 25            | 22 × 35 | 25 × 35<br>30 × 30 | 30 × 35 | 30 × 50            |
| 3 300            |                                   |         |                    | 22 × 30<br>25 × 25 | 25 × 35 | 30 × 40            | 35 × 35 | 35 × 50            |
| 4 700            |                                   |         | 22 × 30<br>25 × 25 | 22 × 40            | 30 × 35 | 35 × 35            | 35 × 45 |                    |
| 6 800            | 22 × 25                           | 22 × 30 | 25 × 30            | 25 × 40            | 30 × 50 | 35 × 50            |         |                    |
| 10 000           | 22 × 30                           | 25 × 30 | 25 × 40            | 30 × 40            | 35 × 45 |                    |         |                    |
| 15 000           | 22 × 40                           | 25 × 40 | 30 × 40            | 35 × 40            |         |                    |         |                    |
| 18 000           |                                   |         |                    | 35 × 45            |         |                    |         |                    |
| 22 000           | 30 × 35                           | 30 × 40 |                    |                    |         |                    |         |                    |
| 33 000           | 30 × 45                           |         |                    |                    |         |                    |         |                    |

The capacitance and voltage ratings listed above are available in different cases upon request.  
Other voltage and capacitance ratings are also available upon request.

**Overview of available types****Type B 43 505**

| $U_R$ (VDC)      | 200                               | 250                | 400                | 450                |
|------------------|-----------------------------------|--------------------|--------------------|--------------------|
| $C_R$ ( $\mu$ F) | Case dimensions $d \times l$ (mm) |                    |                    |                    |
| 100              |                                   |                    | 25 × 30            | 22 × 45<br>30 × 30 |
| 150              |                                   |                    | 25 × 40<br>30 × 30 | 25 × 45<br>30 × 35 |
| 220              | 22 × 30                           | 25 × 30            | 30 × 40<br>35 × 30 | 30 × 45<br>35 × 35 |
| 330              | 22 × 40                           | 25 × 40<br>30 × 30 | 30 × 50<br>35 × 40 | 35 × 50            |
| 390              |                                   |                    | 35 × 45            | 35 × 50            |
| 470              | 25 × 40<br>30 × 30                | 30 × 35            | 35 × 50            |                    |
| 680              | 30 × 40                           | 30 × 45            |                    |                    |
| 1 000            | 35 × 45                           | 35 × 45            |                    |                    |
| 1 500            | 35 × 50                           |                    |                    |                    |

The capacitance and voltage ratings listed above are available in different cases upon request.  
Other voltage and capacitance ratings are also available upon request.

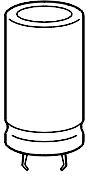

**Technical data and ordering codes**

| $U_R$         | $C_R$   | Case dimensions | $ESR_{typ}$ | $Z_{max}$  | $I_{\sim max}$ | $I_{\sim max}$ | $I_{\sim R}^{1)}$ | Ordering code <sup>2)</sup> |
|---------------|---------|-----------------|-------------|------------|----------------|----------------|-------------------|-----------------------------|
|               | 100 Hz  | $d \times l$    | 100 Hz      | 10 kHz     | 100 Hz         | 100 Hz         | 100 Hz            |                             |
| VDC           | 20 °C   | mm              | 20 °C       | 20 °C      | 40 °C          | 85 °C          | 105 °C            |                             |
|               | $\mu F$ |                 | m $\Omega$  | m $\Omega$ | A              | A              | A                 |                             |
| <b>B41505</b> |         |                 |             |            |                |                |                   |                             |
| 10            | 6 800   | 22 × 25         | 98          | 78         | 4,2            | 2,8            | 1,4               | B41505A3688M000             |
|               | 10 000  | 22 × 30         | 70          | 56         | 5,4            | 3,6            | 1,8               | B41505A3109M000             |
|               | 15 000  | 22 × 40         | 49          | 39         | 6,9            | 4,6            | 2,3               | B41505A3159M000             |
|               | 22 000  | 30 × 35         | 35          | 28         | 9,0            | 6,0            | 3,0               | B41505A3229M000             |
|               | 33 000  | 30 × 45         | 25          | 20         | 12             | 7,8            | 3,9               | B41505A3339M000             |
| 16            | 6 800   | 22 × 30         | 61          | 49         | 5,4            | 3,6            | 1,8               | B41505A4688M000             |
|               | 10 000  | 25 × 30         | 45          | 36         | 6,6            | 4,4            | 2,2               | B41505A4109M000             |
|               | 15 000  | 25 × 40         | 32          | 26         | 8,4            | 5,6            | 2,8               | B41505A4159M000             |
|               | 22 000  | 30 × 40         | 23          | 18         | 11             | 7,0            | 3,5               | B41505A4229M000             |
| 25            | 4 700   | 22 × 30         | 71          | 57         | 4,8            | 3,2            | 1,6               | B41505A5478M000             |
|               | 4 700   | 25 × 25         | 71          | 57         | 4,8            | 3,2            | 1,6               | B41505F5478M000             |
|               | 6 800   | 25 × 30         | 54          | 43         | 5,7            | 3,8            | 1,9               | B41505A5688M000             |
|               | 10 000  | 25 × 40         | 40          | 32         | 7,5            | 5,0            | 2,5               | B41505A5109M000             |
|               | 15 000  | 30 × 40         | 29          | 23         | 9,6            | 6,4            | 3,2               | B41505A5159M000             |
| 35            | 2 200   | 22 × 25         | 113         | 90         | 3,3            | 2,2            | 1,1               | B41505A7228M000             |
|               | 3 300   | 22 × 30         | 75          | 60         | 4,5            | 3,0            | 1,5               | B41505A7338M000             |
|               | 3 300   | 25 × 25         | 75          | 60         | 4,5            | 3,0            | 1,5               | B41505F7338M000             |
|               | 4 700   | 22 × 40         | 60          | 48         | 5,7            | 3,8            | 1,9               | B41505A7478M000             |
|               | 6 800   | 25 × 40         | 46          | 37         | 6,9            | 4,6            | 2,3               | B41505A7688M000             |
|               | 10 000  | 30 × 40         | 35          | 28         | 8,7            | 5,8            | 2,9               | B41505A7109M000             |
|               | 15 000  | 35 × 40         | 25          | 20         | 11             | 7,6            | 3,8               | B41505A7159M000             |
|               | 18 000  | 35 × 45         | 23          | 18         | 13             | 8,6            | 4,3               | B41505A7189M000             |
| 50            | 2 200   | 22 × 35         | 113         | 90         | 4,2            | 2,8            | 1,4               | B41505A6228M000             |
|               | 3 300   | 25 × 35         | 75          | 60         | 5,4            | 3,6            | 1,8               | B41505A6338M000             |
|               | 4 700   | 30 × 35         | 56          | 45         | 6,6            | 4,4            | 2,2               | B41505A6478M000             |
|               | 6 800   | 30 × 50         | 44          | 35         | 8,7            | 5,8            | 2,9               | B41505A6688M000             |
|               | 10 000  | 35 × 45         | 33          | 26         | 11             | 7,2            | 3,6               | B41505A6109M000             |

1) 120 Hz conversion factor of ripple current:  $I_{\sim} (120 \text{ Hz}) = 1,03 \cdot I_{\sim} (100 \text{ Hz})$

2) Ordering code for standard terminals (6,3 mm).

To determine the ordering code for short terminals (4,5 mm) and 3 terminals (4,5 mm) see page 258.



| $U_R$<br>VDC | $C_R$<br>100 Hz<br>20 °C<br>$\mu\text{F}$ | Case<br>dimensions<br>$d \times l$<br>mm | $ESR_{\text{typ}}$<br>100 Hz<br>20 °C<br>m $\Omega$ | $Z_{\text{max}}$<br>10 kHz<br>20 °C<br>m $\Omega$ | $I_{\sim\text{max}}$<br>100 Hz<br>40 °C<br>A | $I_{\sim\text{max}}$<br>100 Hz<br>85 °C<br>A | $I_{\sim R}^{1)}$<br>100 Hz<br>105 °C<br>A | Ordering code <sup>2)</sup> |
|--------------|---|--|---|---|--|--|--|-----------------------------|
| 63           | 1000                                      | 22 × 25                                  | 199   | 159   | 3,0  | 2,0  | 1,0  | B41505A8108M000             |
|              | 1500                                      | 22 × 35                                  | 133   | 106   | 4,2  | 2,8  | 1,4  | B41505A8158M000             |
|              | 2200                                      | 25 × 35                                  | 90  | 72  | 5,1  | 3,4  | 1,7  | B41505A8228M000             |
|              | 2200                                      | 30 × 30                                  | 106   | 85  | 5,4  | 3,6  | 1,8  | B41505F8228M000             |
|              | 3300                                      | 30 × 40                                  | 70  | 56  | 6,9  | 4,6  | 2,3  | B41505A8338M000             |
|              | 4700                                      | 35 × 35                                  | 56  | 45  | 8,1  | 5,4  | 2,7  | B41505A8478M000             |
|              | 6800                                      | 35 × 50                                  | 39  | 31  | 11   | 7,2  | 3,6  | B41505A8688M000             |
| 80           | 1000                                      | 25 × 25                                  | 166   | 133   | 3,9  | 2,6  | 1,3  | B41505A0108M000             |
|              | 1200                                      | 30 × 25                                  | 138   | 110   | 4,5  | 3,0  | 1,5  | B41505A0128M000             |
|              | 1500                                      | 25 × 35                                  | 111   | 89  | 5,4  | 3,6  | 1,8  | B41505A0158M000             |
|              | 2200                                      | 30 × 35                                  | 75  | 60  | 6,0  | 4,0  | 2,0  | B41505A0228M000             |
|              | 3300                                      | 35 × 35                                  | 60  | 48  | 8,4  | 5,6  | 2,8  | B41505A0338M000             |
|              | 4700                                      | 35 × 45                                  | 42  | 34  | 10   | 6,8  | 3,4  | B41505A0478M000             |
| 100          | 560                                       | 25 × 25                                  | 237   | 190   | 3,0  | 2,0  | 1,0  | B41505A9567M000             |
|              | 680                                       | 22 × 35                                  | 195   | 156   | 3,6  | 2,4  | 1,2  | B41505A9687M000             |
|              | 1000                                      | 25 × 35                                  | 133   | 106   | 4,2  | 2,8  | 1,4  | B41505A9108M000             |
|              | 1000                                      | 30 × 30                                  | 133   | 106   | 4,5  | 3,0  | 1,5  | B41505F9108M000             |
|              | 1500                                      | 30 × 40                                  | 88  | 70  | 5,7  | 3,8  | 1,9  | B41505A9158M000             |
|              | 2200                                      | 30 × 50                                  | 75  | 60  | 6,9  | 4,6  | 2,3  | B41505A9228M000             |
|              | 3300                                      | 35 × 50                                  | 50  | 40  | 9,0  | 6,0  | 3,0  | B41505A9338M000             |

1) 120 Hz conversion factor of ripple current:  $I_{\sim} (120 \text{ Hz}) = 1,03 \cdot I_{\sim} (100 \text{ Hz})$

2) Ordering code for standard terminals (6,3 mm).

To determine the ordering code for short terminals (4,5 mm) and 3 terminals (4,5 mm) see page 258.




**Technical data and ordering codes**

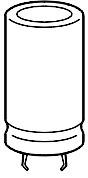
| $U_R$         | $C_R$                      | Case dimensions    | $ESR_{typ}$                   | $Z_{max}$                     | $I_{\sim max}$       | $I_{\sim max}$       | $I_{\sim R}^{1)}$     | Ordering code <sup>2)</sup> |
|---------------|----------------------------|--------------------|-------------------------------|-------------------------------|----------------------|----------------------|-----------------------|-----------------------------|
| VDC           | 100 Hz<br>20 °C<br>$\mu F$ | $d \times l$<br>mm | 100 Hz<br>20 °C<br>m $\Omega$ | 10 kHz<br>20 °C<br>m $\Omega$ | 100 Hz<br>40 °C<br>A | 100 Hz<br>85 °C<br>A | 100 Hz<br>105 °C<br>A |                             |
| <b>B43305</b> |                            |                    |                               |                               |                      |                      |                       |                             |
| 200           | 220                        | 22 × 30            | 580                           | 700                           | 2,9                  | 1,9                  | 0,96                  | B43505E2227M000             |
|               | 330                        | 22 × 40            | 390                           | 470                           | 4,0                  | 2,6                  | 1,3                   | B43505E2337M000             |
|               | 470                        | 25 × 40            | 280                           | 330                           | 5,1                  | 3,4                  | 1,7                   | B43505E2477M000             |
|               | 470                        | 30 × 30            | 280                           | 330                           | 5,1                  | 3,3                  | 1,7                   | B43505G2477M000             |
|               | 680                        | 30 × 40            | 190                           | 230                           | 6,7                  | 4,4                  | 2,2                   | B43505E2687M000             |
|               | 1 000                      | 35 × 45            | 130                           | 160                           | 9,4                  | 6,2                  | 3,1                   | B43505E2108M000             |
|               | 1 500                      | 35 × 50            | 90                            | 110                           | 12                   | 7,8                  | 3,9                   | B43505E2158M000             |
| 250           | 220                        | 25 × 30            | 580                           | 700                           | 3,2                  | 2,1                  | 1,0                   | B43505A2227M000             |
|               | 330                        | 25 × 40            | 390                           | 470                           | 4,3                  | 2,8                  | 1,4                   | B43505A2337M000             |
|               | 330                        | 30 × 30            | 390                           | 470                           | 4,2                  | 2,8                  | 1,4                   | B43505C2337M000             |
|               | 470                        | 30 × 35            | 280                           | 330                           | 5,3                  | 3,5                  | 1,8                   | B43505A2477M000             |
|               | 680                        | 30 × 45            | 190                           | 230                           | 7,0                  | 4,6                  | 2,3                   | B43505A2687M000             |
|               | 1 000                      | 35 × 45            | 130                           | 160                           | 9,4                  | 6,2                  | 3,1                   | B43505A2108M000             |
| 400           | 100                        | 25 × 30            | 880                           | 1090                          | 2,1                  | 1,4                  | 0,70                  | B43505A9107M000             |
|               | 150                        | 25 × 40            | 590                           | 730                           | 2,9                  | 1,9                  | 0,95                  | B43505A9157M000             |
|               | 150                        | 30 × 30            | 590                           | 730                           | 2,9                  | 1,9                  | 0,94                  | B43505C9157M000             |
|               | 220                        | 30 × 40            | 400                           | 500                           | 3,8                  | 2,5                  | 1,3                   | B43505A9227M000             |
|               | 220                        | 35 × 30            | 400                           | 500                           | 3,8                  | 2,5                  | 1,3                   | B43505C9227M000             |
|               | 330                        | 30 × 50            | 270                           | 330                           | 5,1                  | 3,3                  | 1,7                   | B43505A9337M000             |
|               | 330                        | 35 × 40            | 270                           | 330                           | 5,2                  | 3,4                  | 1,7                   | B43505C9337M000             |
|               | 390                        | 35 × 45            | 230                           | 280                           | 5,9                  | 3,8                  | 1,9                   | B43505A9397M000             |
|               | 470                        | 35 × 50            | 190                           | 240                           | 6,7                  | 4,4                  | 2,2                   | B43505A9477M000             |
| 450           | 100                        | 22 × 45            | 1360                          | 1600                          | 2,3                  | 1,5                  | 0,75                  | B43505A5107M000             |
|               | 100                        | 30 × 30            | 1360                          | 1600                          | 2,3                  | 1,5                  | 0,76                  | B43505C5107M000             |
|               | 150                        | 25 × 45            | 910                           | 1070                          | 3,0                  | 2,0                  | 1,0                   | B43505A5157M000             |
|               | 150                        | 30 × 35            | 910                           | 1070                          | 3,0                  | 2,0                  | 0,99                  | B43505C5157M000             |
|               | 220                        | 30 × 45            | 620                           | 730                           | 4,0                  | 2,6                  | 1,3                   | B43505A5227M000             |
|               | 220                        | 35 × 35            | 620                           | 730                           | 4,0                  | 2,7                  | 1,3                   | B43505C5227M000             |
|               | 330                        | 35 × 50            | 410                           | 490                           | 5,6                  | 3,7                  | 1,8                   | B43505A5337M000             |
|               | 390                        | 35 × 50            | 350                           | 410                           | 6,1                  | 4,0                  | 2,0                   | B43505A5397M000             |

■ Preferred types

1) 120 Hz conversion factor of ripple current:  $I_{\sim} (120 \text{ Hz}) = 1,03 \cdot I_{\sim} (100 \text{ Hz})$

2) Ordering code for standard terminals (6,3 mm).

To determine the ordering code for short terminals (4,5 mm) and 3 terminals (4,5 mm) see page 258.



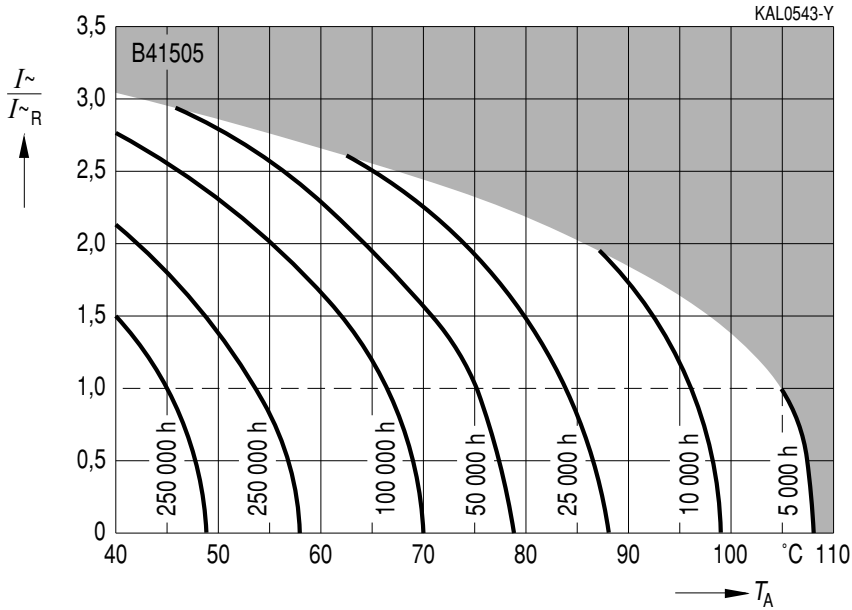
B41505 / B43505

Excellent Performance – 105 °C

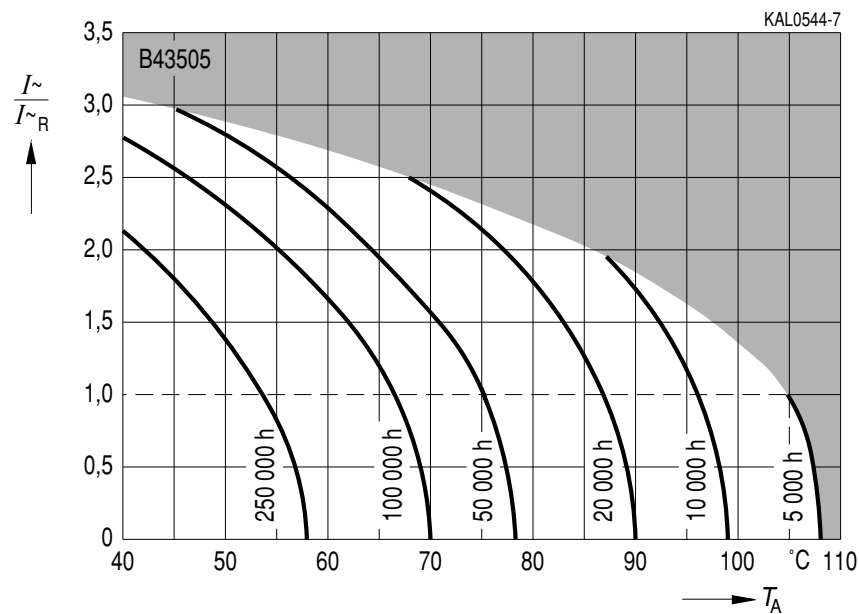
### Useful life

depending on ambient temperature  $T_A$  under ripple current operating conditions<sup>1)</sup>

$U_R \leq 100$  VDC



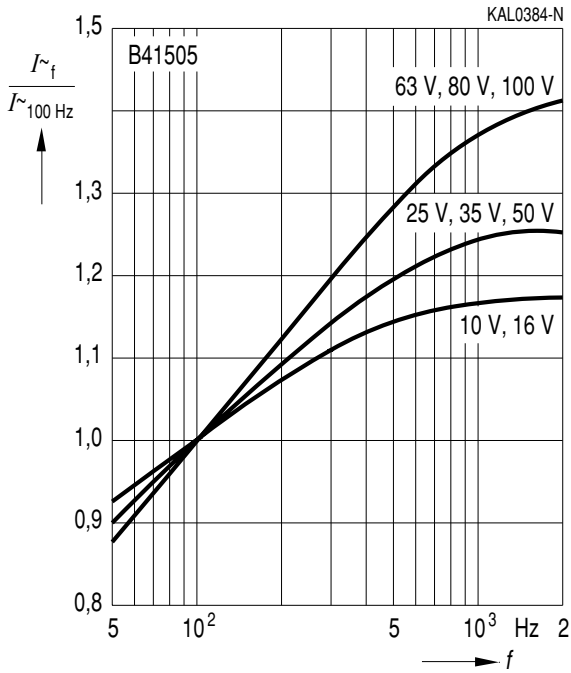
$U_R \geq 200$  VDC



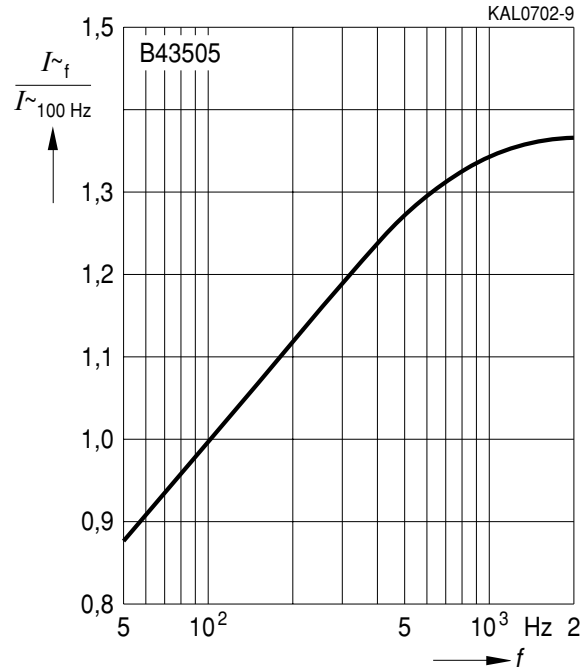
1) Refer to page 40 for an explanation on how to interpret the useful life graphs.



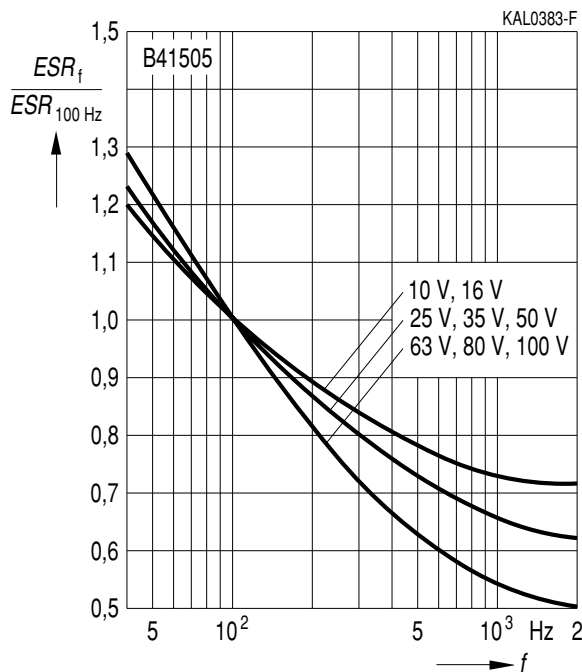
**Frequency factor of permissible ripple current  $I_{\sim}$  versus frequency  $f$**   
 $U_R \leq 100$  VDC



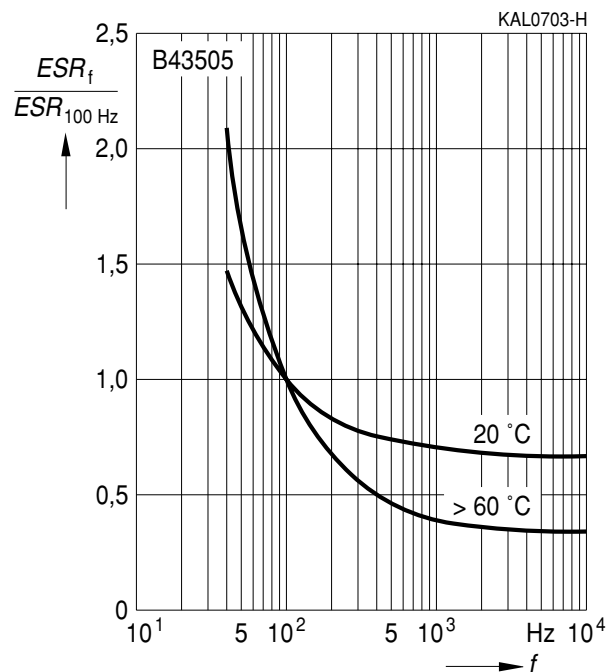
**Frequency factor of permissible ripple current  $I_{\sim}$  versus frequency  $f$**   
 $U_R \geq 200$  VDC

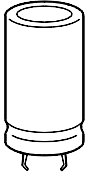


**Frequency characteristics of ESR**  
 Typical behavior  
 $U_R \leq 100$  VDC



**Frequency characteristics of ESR**  
 Typical behavior  
 $U_R \geq 200$  VDC





**B41505 / B43505**

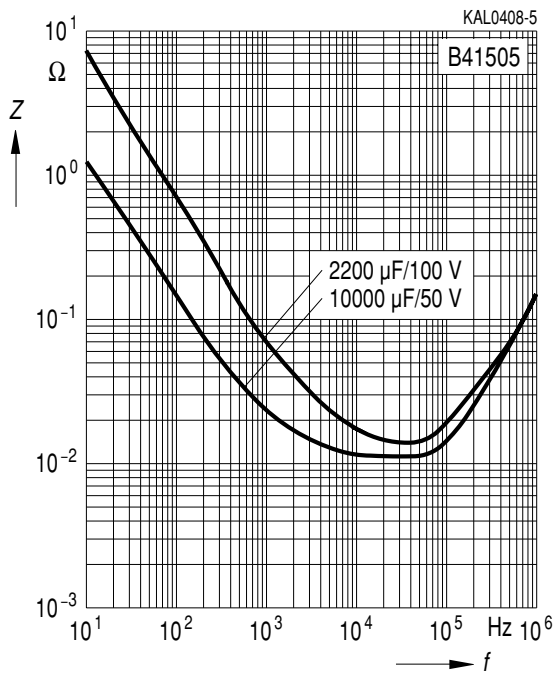
**Excellent Performance – 105 °C**

### Impedance $Z$

versus frequency  $f$

Typical behavior at 20 °C

$U_R \leq 100$  VDC

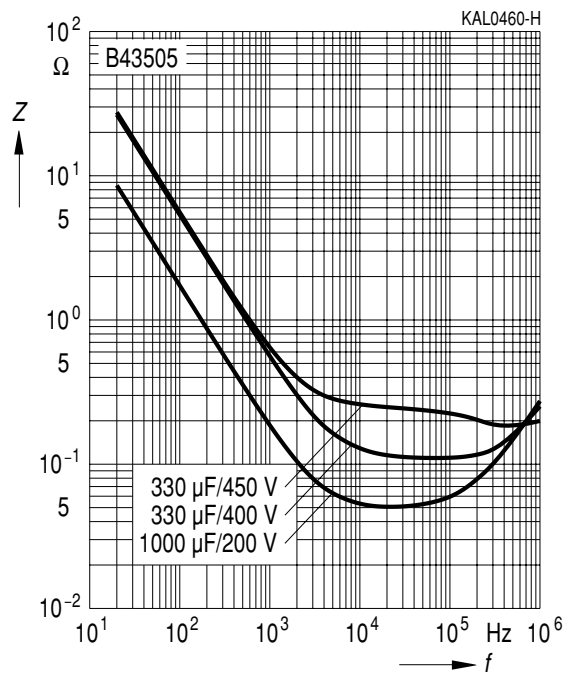


### Impedance $Z$

versus frequency  $f$

Typical behavior at 20 °C

$U_R \geq 200$  VDC



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