

General-purpose grade capacitors

Applications

- Switch-mode power supplies in industrial and entertainment electronics

Features

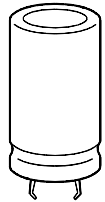
- High ripple current capability
- Different case sizes available for each capacitance value

Construction

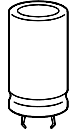
- Charge-discharge proof, polar
- Aluminum case, fully insulated
- Snap-in solder pins to hold component in place on PC-board
- Minus pole marking on case surface
- Minus pole not insulated from case
- Overload protection (safety vent)

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)



KAL0274-A


Specifications and characteristics in brief

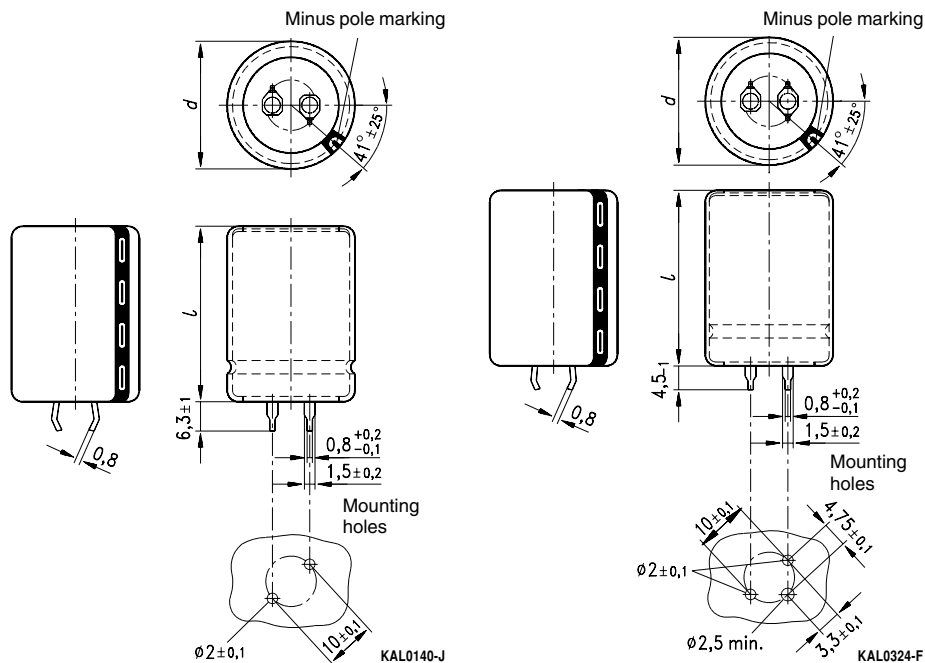
| | B41303 | B43303 (not for new design) |
|--|---|--|
| Rated voltage U_R | 10 ... 100 VDC | 200 ... 500 VDC |
| Surge voltage U_S | $1,15 \cdot U_R$ | $1,15 \cdot U_R$ (for $U_R \leq 250$ VDC) $1,10 \cdot U_R$ (for $U_R \geq 385$ VDC) |
| Rated capacitance C_R | 680 ... 47 000 μ F | 22 ... 1 500 μ F |
| Capacitance tolerance | $\pm 20 \% \triangleq M$ | $\pm 20 \% \triangleq M$ |
| Leakage current I_L (5 min, 20 °C) | $I_L \leq 0,3 \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{U_R}{\text{V}}\right)^{0,7} + 4 \mu\text{A}$ | |
| Self-inductance ESL | Approx. 20 nH | |
| Useful life 85 °C, U_R ; I_{-R} 40 °C, U_R ; $1,15 \cdot I_{-R}$ | > 2 000 h > 100 000 h | > 2 000 h > 100 000 h |
| Requirements: | $\Delta C/C \leq \pm 45 \%$ of initial value $ESR \leq 3$ times initial spec. limit $I_L \leq$ initial specified limit Failure percentage: $\leq 1 \%$ Failure rate: ≤ 100 fit ($\leq 100 \cdot 10^{-9}/\text{h}$) (for definiton "fit", refer to chapter "Quality", page 62) | $\Delta C/C \leq \pm 30 \%$ of initial value $ESR \leq 3$ times initial spec. limit $I_L \leq$ initial specified limit |
| Voltage endurance test 85 °C; U_R | 2 000 h | 2 000 h |
| Post test requirements: | $\Delta C/C \leq \pm 15 \%$ of initial value $ESR \leq 1,3$ times initial spec. limit $I_L \leq$ initial specified limit | $\Delta C/C \leq \pm 10 \%$ of initial value $ESR \leq 1,3$ times initial spec. limit $I_L \leq$ initial specified limit |
| Vibration resistance | To IEC 60068-2-6, test Fc: displacement amplitude 0,35 mm, frequency range 10 ... 55 Hz, acceleration max. 5 g, duration 3×2 h | |
| IEC climatic category | To IEC 60068-1: 40/085/56 (– 40 °C/+ 85 °C/56 days damp heat test) | 25/085/56 (– 25 °C/+ 85 °C/56 days damp heat test) |
| Detail specification | Similar to CECC 30301-806 | |
| Sectional specification | IEC 60384-4 | |



B41303 / B43303

Standard – 85 °C

Dimensional drawings

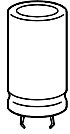


Snap-in terminals, standard (length 6,3 ± 1 mm). Also available in a shorter version with a length of 4,5 – 1 mm. For packing mode and ordering example see next page.

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 |
| 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 | 20 | 14 | 80 |
| 30 | 25 | 17 | 80 |
| 30 | 30 | 23 | 80 |
| 30 | 35 | 29 | 80 |
| 30 | 40 | 36 | 80 |
| 30 | 45 | 41 | 80 |
| 30 | 50 | 46 | 80 |
| 35 | 20 | 19 | 60 |
| 35 | 40 | 44 | 60 |
| 35 | 45 | 52 | 60 |
| 35 | 50 | 59 | 60 |
| 35 | 55 | 66 | 60 |


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 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 |

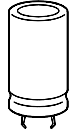
Ordering example:

B41303A3109M007 } snap-in capacitor with short terminals
 B41303A3109M002 } snap-in capacitor with 3 terminals


Overview of available types
Type B41303

| U_R (VDC) | 10 | 16 | 25 | 40 | 63 | 100 |
|------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| C_R (μ F) | Case dimensions $d \times l$ (mm) | | | | | |
| 680 | | | | | | 22 × 30 25 × 25 |
| 1 000 | | | | | | 22 × 35 25 × 30 |
| 1 500 | | | | | 22 × 30 25 × 25 | 25 × 35 30 × 30 |
| 2 200 | | | | | 22 × 35 25 × 30 | 30 × 35 |
| 3 300 | | | | 22 × 30 25 × 25 | 25 × 35 30 × 30 | 30 × 45 |
| 4 700 | | | 22 × 30 25 × 25 | 22 × 35 25 × 30 | 30 × 35 | |
| 6 800 | | 22 × 30 25 × 25 | 22 × 35 25 × 30 | 25 × 40 30 × 30 | 30 × 45 | |
| 10 000 | 22 × 30 25 × 25 | 22 × 35 25 × 30 | 25 × 35 30 × 30 | 30 × 35 | | |
| 15 000 | 22 × 35 25 × 30 | 25 × 40 30 × 30 | 30 × 35 | 30 × 50 | | |
| 22 000 | 25 × 40 30 × 30 | 30 × 35 | 30 × 45 | | | |
| 33 000 | 30 × 35 | 30 × 45 | | | | |
| 47 000 | 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 B43303 (not for new design)

| U_R (VDC) | 200 | 250 | 385 | 400 | 450 | 500 |
|------------------|-----------------------------------|--------------------|--------------------|--------------------|---------|---------|
| C_R (μ F) | Case dimensions $d \times l$ (mm) | | | | | |
| 22 | | | | | | 22 × 25 |
| 33 | | | | | | 22 × 30 |
| 47 | | | | | | 22 × 40 |
| 68 | | | 22 × 25 | 22 × 30 | 22 × 35 | 25 × 40 |
| 100 | | | 22 × 30 25 × 25 | 22 × 35 25 × 30 | 22 × 40 | 30 × 40 |
| 120 | | | | 25 × 30 | 25 × 35 | |
| 150 | | 22 × 25 | 22 × 40 25 × 30 | 22 × 40 25 × 30 | 30 × 35 | 30 × 50 |
| 180 | | | | | 30 × 35 | |
| 220 | 22 × 25 | 22 × 30 25 × 25 | 25 × 40 30 × 35 | 25 × 40 30 × 30 | 30 × 50 | |
| 270 | | | | 30 × 35 | 30 × 45 | |
| 330 | 22 × 30 25 × 25 | 22 × 40 25 × 35 | 30 × 45 | 30 × 45 | 35 × 40 | |
| 390 | | | | 30 × 45 35 × 40 | 35 × 45 | |
| 470 | 22 × 40 30 × 25 | 25 × 40 30 × 30 | 35 × 40 | 35 × 45 | 35 × 50 | |
| 560 | | | 35 × 45 | 35 × 50 | | |
| 680 | 25 × 40 30 × 35 | 30 × 40 | | 35 × 55 | | |
| 1 000 | 30 × 45 35 × 40 | 35 × 45 | | | | |
| 1 200 | 35 × 45 | 35 × 50 | | | | |
| 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

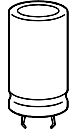
| U_R | C_R | Case dimensions | ESR_{max} | Z_{max} | $I_{~max}$ | $I_{~R}^{1)}$ | Ordering code ²⁾ |
|---------------|-----------------------|--------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------------|
| VDC | 100 Hz 20 °C μF | $d \times l$ mm | 100 Hz 20 °C mΩ | 10 kHz 20 °C mΩ | 100 Hz 40 °C A | 100 Hz 85 °C A | |
| B41303 | | | | | | | |
| 10 | 10 000 | 22 × 30 | 66 | 59 | 4,7 | 1,8 | B41303A3109M000 |
| | 10 000 | 25 × 25 | 66 | 59 | 4,7 | 1,8 | B41303J3109M000 |
| | 15 000 | 22 × 35 | 54 | 49 | 5,6 | 2,2 | B41303B3159M000 |
| | 15 000 | 25 × 30 | 54 | 49 | 5,6 | 2,2 | B41303J3159M000 |
| | 22 000 | 25 × 40 | 46 | 43 | 6,7 | 2,6 | B41303A3229M000 |
| | 22 000 | 30 × 30 | 46 | 43 | 6,7 | 2,6 | B41303J3229M000 |
| | 33 000 | 30 × 35 | 41 | 39 | 7,3 | 2,8 | B41303B3339M000 |
| | 47 000 | 30 × 45 | 38 | 36 | 8,3 | 3,2 | B41303B3479M000 |
| 16 | 6 800 | 22 × 30 | 71 | 59 | 4,5 | 1,8 | B41303A4688M000 |
| | 6 800 | 25 × 25 | 71 | 59 | 4,5 | 1,8 | B41303J4688M000 |
| | 10 000 | 22 × 35 | 58 | 52 | 5,2 | 2,0 | B41303B4109M000 |
| | 10 000 | 25 × 30 | 58 | 52 | 5,2 | 2,0 | B41303J4109M000 |
| | 15 000 | 25 × 40 | 49 | 45 | 6,4 | 2,5 | B41303A4159M000 |
| | 15 000 | 30 × 30 | 49 | 45 | 6,4 | 2,5 | B41303J4159M000 |
| | 22 000 | 30 × 35 | 43 | 40 | 7,3 | 2,8 | B41303B4229M000 |
| | 33 000 | 30 × 45 | 39 | 37 | 8,1 | 3,1 | B41303B4339M000 |
| 25 | 4 700 | 22 × 30 | 77 | 67 | 4,4 | 1,7 | B41303A5478M000 |
| | 4 700 | 25 × 25 | 77 | 67 | 4,4 | 1,7 | B41303J5478M000 |
| | 6 800 | 22 × 35 | 62 | 56 | 4,9 | 1,9 | B41303B5688M000 |
| | 6 800 | 25 × 30 | 62 | 56 | 4,9 | 1,9 | B41303J5688M000 |
| | 10 000 | 25 × 35 | 52 | 48 | 5,5 | 2,3 | B41303B5109M000 |
| | 10 000 | 30 × 30 | 52 | 48 | 5,5 | 2,3 | B41303J5109M000 |
| | 15 000 | 30 × 35 | 45 | 42 | 7,0 | 2,7 | B41303B5159M000 |
| | 22 000 | 30 × 45 | 40 | 38 | 8,1 | 3,1 | B41303B5229M000 |

Preferred types

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

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 213.


B41303 / B43303
Standard – 85 °C

| U_R | C_R 100 Hz 20 °C | Case dimensions $d \times l$ mm | ESR_{max} 100 Hz 20 °C mΩ | Z_{max} 10 kHz 20 °C mΩ | I_{-max} 100 Hz 40 °C A | $I_{-R}^{(1)}$ 100 Hz 85 °C A | Ordering code ²⁾ |
|-------|--------------------------|--|--------------------------------------|------------------------------------|------------------------------------|--|-----------------------------|
| VDC | μF | | | | | | |
| 40 | 3 300 | 22 × 30 | 77 | 71 | 4,4 | 1,7 | B41303A7338M000 |
| | 3 300 | 25 × 25 | 77 | 71 | 4,4 | 1,7 | B41303J7338M000 |
| | 4 700 | 22 × 35 | 66 | 59 | 4,9 | 1,9 | B41303B7478M000 |
| | 4 700 | 25 × 30 | 66 | 59 | 4,9 | 1,9 | B41303J7478M000 |
| | 6 800 | 25 × 40 | 55 | 50 | 6,1 | 2,4 | B41303A7688M000 |
| | 6 800 | 30 × 30 | 55 | 50 | 6,1 | 2,4 | B41303J7688M000 |
| | 10 000 | 30 × 35 | 47 | 44 | 6,8 | 2,6 | B41303B7109M000 |
| | 15 000 | 30 × 50 | 41 | 39 | 8,4 | 3,3 | B41303A7159M000 |
| 63 | 1 500 | 22 × 30 | 120 | 100 | 3,5 | 1,4 | B41303A8158M000 |
| | 1 500 | 25 × 25 | 120 | 100 | 3,5 | 1,4 | B41303J8158M000 |
| | 2 200 | 22 × 35 | 89 | 77 | 4,2 | 1,6 | B41303B8228M000 |
| | 2 200 | 25 × 30 | 89 | 77 | 4,2 | 1,6 | B41303J8228M000 |
| | 3 300 | 25 × 35 | 69 | 62 | 5,2 | 2,0 | B41303B8338M000 |
| | 3 300 | 30 × 30 | 69 | 62 | 5,2 | 2,0 | B41303J8338M000 |
| | 4 700 | 30 × 35 | 58 | 52 | 6,2 | 2,4 | B41303B8478M000 |
| | 6 800 | 30 × 45 | 49 | 45 | 7,3 | 2,8 | B41303B8688M000 |
| 100 | 680 | 22 × 30 | 180 | 150 | 2,9 | 1,1 | B41303A9687M000 |
| | 680 | 25 × 25 | 180 | 150 | 2,9 | 1,1 | B41303J9687M000 |
| | 1 000 | 22 × 35 | 130 | 110 | 3,4 | 1,3 | B41303B9108M000 |
| | 1 000 | 25 × 30 | 130 | 110 | 3,4 | 1,3 | B41303J9108M000 |
| | 1 500 | 25 × 35 | 97 | 83 | 4,4 | 1,7 | B41303B9158M000 |
| | 1 500 | 30 × 30 | 97 | 83 | 4,4 | 1,7 | B41303J9158M000 |
| | 2 200 | 30 × 35 | 75 | 66 | 5,5 | 2,1 | B41303B9228M000 |
| | 3 300 | 30 × 45 | 60 | 54 | 6,5 | 2,5 | B41303B9338M000 |

Preferred types

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

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 213.


Technical data and ordering codes

| U_R | C_R 100 Hz 20 °C | Case dimensions $d \times l$ mm | ESR_{max} 100 Hz 20 °C mΩ | Z_{max} 10 kHz 20 °C mΩ | I_{-max} 100 Hz 40 °C A | $I_{-R}^{1)}$ 100 Hz 85 °C A | Ordering code ²⁾ |
|------------------------------------|--------------------------|--|--------------------------------------|------------------------------------|------------------------------------|---------------------------------------|-----------------------------|
| VDC | μF | | | | | | |
| B43303 (not for new design) | | | | | | | |
| 200 | 220 | 22 × 25 | 1250 | 960 | 1,7 | 0,77 | B43303D0227M000 |
| | 330 | 22 × 30 | 900 | 640 | 2,2 | 1,0 | B43303D0337M000 |
| | 330 | 25 × 25 | 800 | 640 | 2,3 | 1,0 | B43303M0337M000 |
| | 470 | 22 × 40 | 560 | 450 | 2,9 | 1,3 | B43303D0477M000 |
| | 470 | 30 × 25 | 560 | 450 | 3,0 | 1,3 | B43303M0477M000 |
| | 680 | 25 × 40 | 390 | 310 | 3,8 | 1,7 | B43303D0687M000 |
| | 680 | 30 × 35 | 390 | 310 | 4,0 | 1,8 | B43303M0687M000 |
| | 1 000 | 30 × 45 | 260 | 210 | 5,3 | 2,4 | B43303D0108M000 |
| | 1 000 | 35 × 40 | 260 | 210 | 5,6 | 2,5 | B43303E0108M000 |
| | 1 200 | 35 × 45 | 220 | 180 | 6,4 | 2,9 | B43303A0128M000 |
| 1 500 | 35 × 50 | 180 | 140 | 7,4 | 3,3 | B43303A0158M000 | |
| 250 | 150 | 22 × 25 | 1400 | 1200 | 1,4 | 0,63 | B43303C2157M000 |
| | 220 | 22 × 30 | 920 | 740 | 1,8 | 0,82 | B43303C2227M000 |
| | 220 | 25 × 25 | 920 | 740 | 1,8 | 0,84 | B43303L2227M000 |
| | 330 | 22 × 40 | 620 | 500 | 2,5 | 1,1 | B43303C2337M000 |
| | 330 | 25 × 35 | 620 | 500 | 2,5 | 1,2 | B43303L2337M000 |
| | 470 | 25 × 40 | 440 | 360 | 3,2 | 1,4 | B43303C2477M000 |
| | 470 | 30 × 30 | 440 | 360 | 3,1 | 1,4 | B43303L2477M000 |
| | 680 | 30 × 40 | 300 | 240 | 4,2 | 1,9 | B43303C2687M000 |
| | 1 000 | 35 × 45 | 220 | 170 | 5,8 | 2,6 | B43303A2108M000 |
| | 1 200 | 35 × 50 | 180 | 150 | 6,6 | 3,0 | B43303A2128M000 |
| 385 | 68 | 22 × 25 | 2700 | 2200 | 1,0 | 0,45 | B43303H0686M000 |
| | 100 | 22 × 30 | 1800 | 1500 | 1,3 | 0,58 | B43303H0107M000 |
| | 100 | 25 × 25 | 1800 | 1500 | 1,3 | 0,59 | B43303R0107M000 |
| | 150 | 22 × 40 | 1200 | 940 | 1,7 | 0,79 | B43303H0157M000 |
| | 150 | 25 × 30 | 1200 | 940 | 1,7 | 0,77 | B43303R0157M000 |
| | 220 | 25 × 40 | 800 | 640 | 2,3 | 1,0 | B43303H0227M000 |
| | 220 | 30 × 35 | 800 | 640 | 2,4 | 1,1 | B43303P0227M000 |
| | 330 | 30 × 45 | 540 | 440 | 3,2 | 1,4 | B43303H0337M000 |
| | 470 | 35 × 40 | 410 | 330 | 4,1 | 1,8 | B43303E0477M000 |
| | 560 | 35 × 45 | 340 | 280 | 4,7 | 2,1 | B43303A0567M000 |

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

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 213.

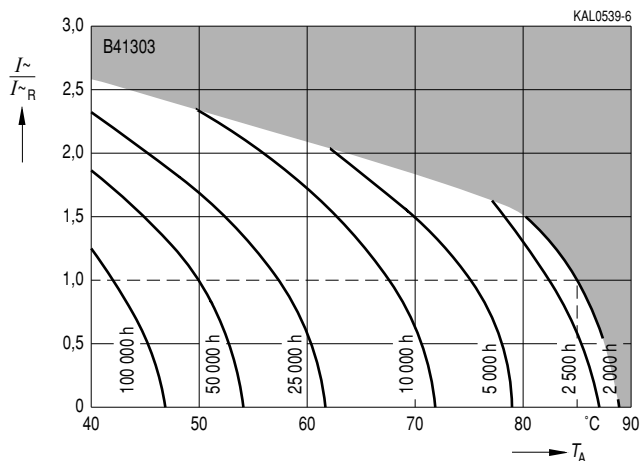
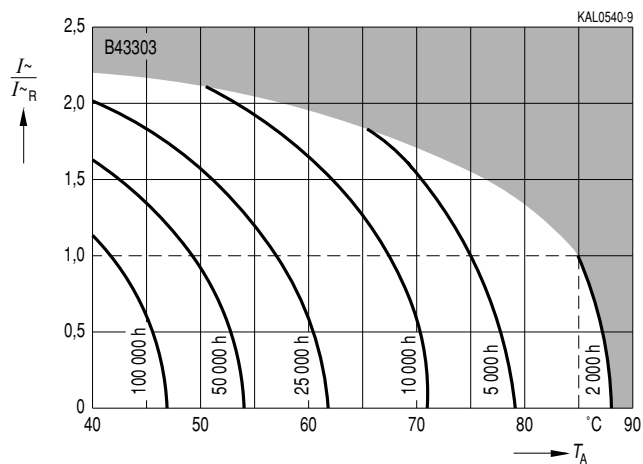


| U_R | C_R 100 Hz 20 °C μF | Case dimensions $d \times l$ mm | ESR_{max} 100 Hz 20 °C m Ω | Z_{max} 10 kHz 20 °C m Ω | I_{max} 100 Hz 40 °C A | $I_{\text{R}}^{(1)}$ 100 Hz 85 °C A | Ordering code ²⁾ |
|-------|---|--|---|---|--|--|-----------------------------|
| 400 | 68 | 22 × 30 | 2400 | 2000 | 1,0 | 0,48 | B43303G0686M000 |
| | 100 | 22 × 35 | 1600 | 1420 | 1,3 | 0,61 | B43303G0107M000 |
| | 100 | 25 × 30 | 1600 | 1420 | 1,4 | 0,63 | B43303Q0107M000 |
| | 120 | 25 × 30 | 1350 | 1180 | 1,5 | 0,69 | B43303A9127M000 |
| | 150 | 22 × 40 | 1100 | 920 | 1,7 | 0,79 | B43303A9157M000 |
| | 150 | 25 × 30 | 1100 | 920 | 1,7 | 0,77 | B43303B9157M000 |
| | 220 | 25 × 40 | 700 | 630 | 2,2 | 1,0 | B43303B9227M000 |
| | 220 | 30 × 30 | 700 | 630 | 2,2 | 1,0 | B43303A9227M000 |
| | 270 | 30 × 35 | 580 | 520 | 2,6 | 1,2 | B43303A9277M000 |
| | 330 | 30 × 45 | 450 | 420 | 3,2 | 1,4 | B43303G0337M000 |
| | 390 | 30 × 45 | 400 | 360 | 3,5 | 1,6 | B43303A9397M000 |
| | 390 | 35 × 40 | 440 | 350 | 3,7 | 1,7 | B43303A0397M000 |
| | 470 | 35 × 45 | 360 | 290 | 4,3 | 1,9 | B43303F0477M000 |
| | 560 | 35 × 50 | 300 | 240 | 4,9 | 2,2 | B43303F0567M000 |
| 680 | 35 × 55 | 250 | 200 | 5,6 | 2,5 | B43303A0687M000 | |
| 450 | 68 | 22 × 35 | 3700 | 3080 | 1,1 | 0,50 | B43303A5686M000 |
| | 100 | 22 × 40 | 2500 | 2080 | 1,4 | 0,64 | B43303B5107M000 |
| | 120 | 25 × 35 | 2100 | 1730 | 1,6 | 0,72 | B43303A5127M000 |
| | 150 | 30 × 35 | 1700 | 1420 | 1,9 | 0,88 | B43303A5157M000 |
| | 180 | 30 × 35 | 1370 | 1180 | 2,1 | 0,97 | B43303A5187M000 |
| | 220 | 30 × 50 | 1200 | 1000 | 2,7 | 1,2 | B43303A5227M000 |
| | 270 | 30 × 45 | 910 | 790 | 2,9 | 1,3 | B43303A5277M000 |
| | 330 | 35 × 40 | 840 | 670 | 3,4 | 1,5 | B43303A5337M000 |
| | 390 | 35 × 45 | 710 | 570 | 3,9 | 1,8 | B43303A5397M000 |
| | 470 | 35 × 50 | 590 | 470 | 4,5 | 2,0 | B43303A5477M000 |
| 500 | 22 | 22 × 25 | 9200 | 7700 | 0,52 | 0,24 | B43303A6226M000 |
| | 33 | 22 × 30 | 6200 | 5200 | 0,68 | 0,31 | B43303A6336M000 |
| | 47 | 22 × 40 | 4400 | 3700 | 0,91 | 0,41 | B43303A6476M000 |
| | 68 | 25 × 40 | 3000 | 2500 | 1,2 | 0,54 | B43303A6686M000 |
| | 100 | 30 × 40 | 2100 | 1800 | 1,6 | 0,71 | B43303A6107M000 |
| | 150 | 30 × 50 | 1400 | 1200 | 2,1 | 0,94 | B43303A6157M000 |

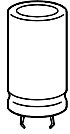
1) 120 Hz conversion factor of ripple current: $I_{\text{R}}(120 \text{ Hz}) = 1,03 \cdot I_{\text{R}}(100 \text{ Hz})$

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

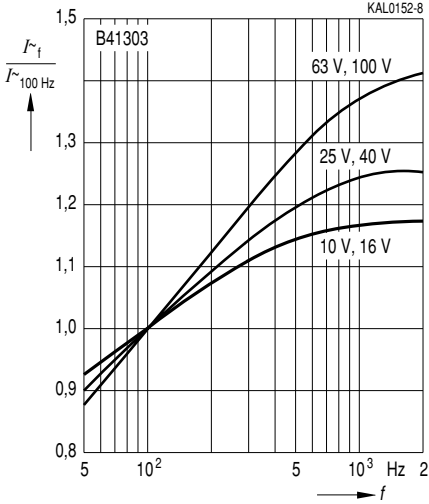
To determine the ordering code for short terminals (4,5 mm) and 3 terminals (4,5 mm) see page 213.

**Useful life**depending on ambient temperature T_A under ripple current operating conditions¹⁾ $U_R \leq 100$ VDC $U_R \geq 200$ VDC

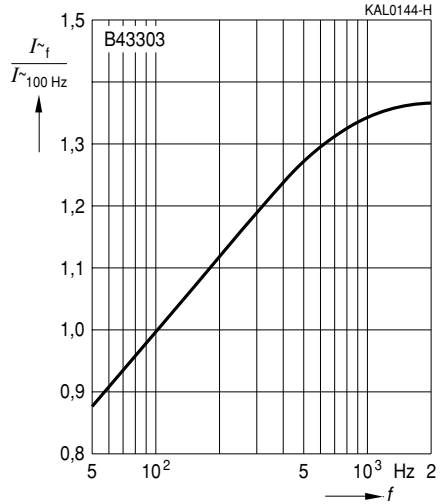
1) Refer to page 40 for an explanation on how to interpret the useful life graphs.



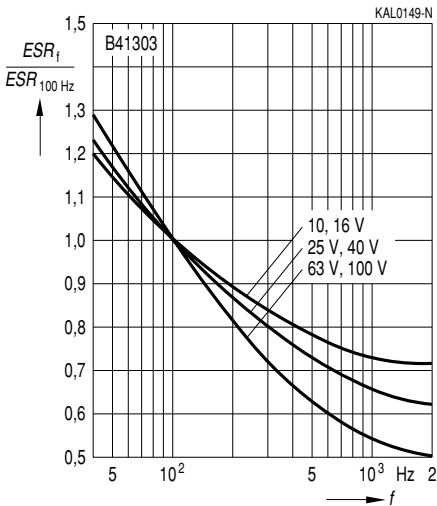
Frequency factor of permissible ripple current I_{\sim} versus frequency f
 $U_R \leq 100$ VDC



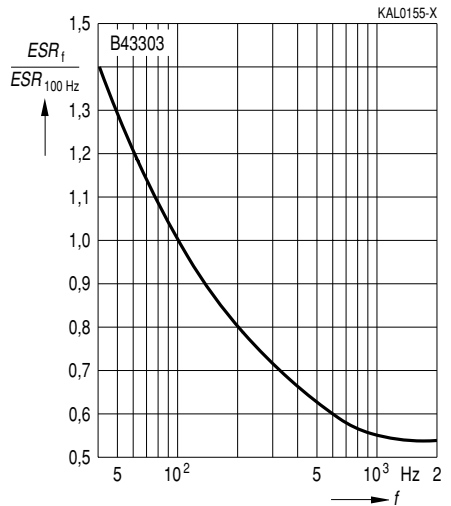
Frequency factor of permissible ripple current I_{\sim} versus frequency f
 $U_R \geq 200$ VDC

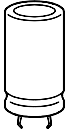


Frequency characteristics of ESR
 Typical behavior
 $U_R \leq 100$ VDC



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





B41303 / B43303

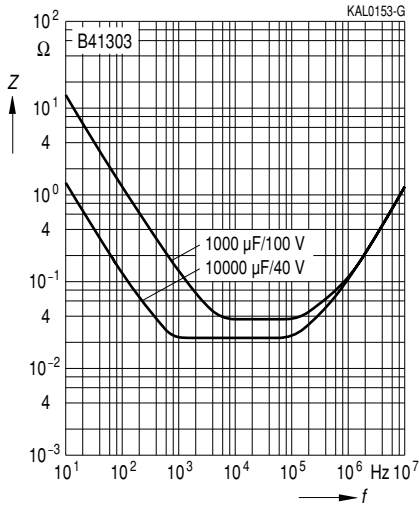
Standard – 85 °C

Impedance Z

versus frequency f

Typical behavior at 20 °C

$U_R \leq 100$ VDC

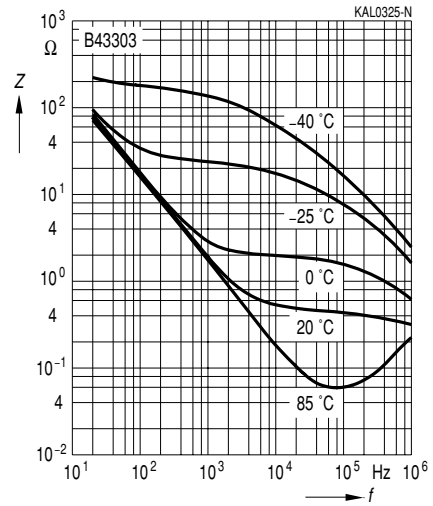


Impedance Z

versus frequency f at different temperatures T

for 100 µF/400 VDC

Typical behavior



Herausgegeben von EPCOS AG

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Published by EPCOS AG

Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

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