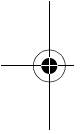
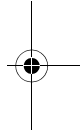


Aluminum electrolytic capacitors Alu-X product lines

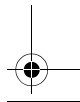
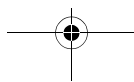
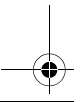
Snap-in capacitors



Series/Type: B41231, B43231
Date: April 2008



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Snap-in capacitors

B41231, B43231

Standard series – 85 °C

General-purpose grade capacitors

Applications

- Switch-mode power supplies in industrial and entertainment electronics

Features

- High ripple current capability
- RoHS-compatible
- Load life of 2000 h at 85 °C

Construction

- Aluminum case, fully insulated
- Snap-in solder pins to hold component in place on PC-board
- Minus pole marking on the insulating sleeve
- Case with safety vent



Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Specifications and characteristics in brief

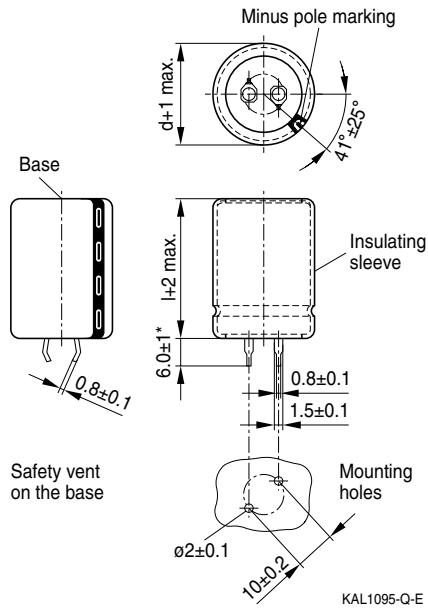
| | | | | | | | | | | | | |
|--|--|---|--------|------------|--------|--------|-------------|------|-------------|-------------|-------------|-------------|
| Rated voltage V_R | 10 ... 500 V DC | | | | | | | | | | | |
| Operating temperature range | $V_R \leq 250$ V DC: -40 °C ... $+85$ °C $V_R \geq 315$ V DC: -25 °C ... $+85$ °C | | | | | | | | | | | |
| Rated capacitance C_R (20 °C, 120 Hz) | 56 ... 68000 μ F | | | | | | | | | | | |
| Capacitance tolerance | $\pm 20\% \triangleq M$ | | | | | | | | | | | |
| Load life (85 °C, V_R , $I_{AC,R}$) | 2000 h | Requirements: $\Delta C/C \leq \pm 20\%$ of initial value $\tan \delta \leq 2$ times initial specified limit $I_{leak} \leq$ initial specified limit | | | | | | | | | | |
| Leakage current I_{leak} (20 °C, after 5 minutes) | $I_{leak} \leq 0.02 \mu A \cdot \left(\frac{C_R}{\mu F} \cdot \frac{V_R}{V} \right)$ | | | | | | | | | | | |
| Dissipation factor (max.) (20 °C, 120 Hz) | V_R (V DC) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160 ... 200 | 250 ... 400 | 450 ... 500 |
| | $\tan \delta$ | 0.50 | 0.50 | 0.40 | 0.40 | 0.30 | 0.25 | 0.20 | 0.15 | 0.12 | 0.15 | 0.20 |
| Low temperature stability (impedance ratio) (120 Hz) | V_R (V DC) | 10 | | 16 ... 160 | | | 200 ... 250 | | 315 ... 400 | | 450 ... 500 | |
| | $\frac{Z(-25 \text{ °C})}{Z(+20 \text{ °C})}$ | 5 | | 4 | | | 7 | | 8 | | 8 | |
| | $\frac{Z(-40 \text{ °C})}{Z(+20 \text{ °C})}$ | 18 | | 15 | | | 12 | | – | | – | |
| Shelf life | After storage for 1000 h at 85 °C, the capacitors shall meet the requirement of load life test after reforming process. After test: V_R to be applied for 30 minutes, 24 to 48 hours before measurement. | | | | | | | | | | | |
| Frequency multiplier for rated ripple current | | 50 Hz | 120 Hz | 1 kHz | 10 kHz | 20 kHz | | | | | | |
| | ≤ 50 V | 0.95 | 1.00 | 1.10 | 1.15 | 1.15 | | | | | | |
| | 63 ... 100 V | 0.95 | 1.00 | 1.16 | 1.30 | 1.33 | | | | | | |
| | ≥ 160 V | 0.90 | 1.00 | 1.20 | 1.50 | 1.55 | | | | | | |
| Temperature multiplier for rated ripple current | | +40 °C | +55 °C | +70 °C | +85 °C | | | | | | | |
| | < 160 V | 2.1 | 2.1 | 1.5 | 1.0 | | | | | | | |
| | ≥ 160 V | 1.7 | 1.5 | 1.3 | 1.0 | | | | | | | |



Snap-in capacitors
Standard series – 85 °C

B41231, B43231

Dimensional drawing



* = Shorter terminal (4.0 ± 0.5) is also available upon request.

Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Overview of available types B41231

| V_R (V DC) | 10 | 16 | 25 | 35 |
|-----------------|--|---------------------------------|---------------------------------|---------------------------------|
| | Case dimensions d × l (mm) | | | |
| C_R (μF) | | | | |
| 4700 | | | | 22 × 30 25.4 × 25 |
| 5600 | | | 22 × 25 | 22 × 35 25.4 × 30 |
| 6800 | | | 22 × 30 25.4 × 25 | 22 × 40 25.4 × 30 30 × 25 |
| 8200 | | | 22 × 35 25.4 × 30 | 22 × 45 25.4 × 35 30 × 30 |
| 10000 | | 22 × 25 | 22 × 40 25.4 × 30 | 22 × 50 25.4 × 40 30 × 30 |
| 12000 | 22 × 25 | 22 × 30 25.4 × 25 | 22 × 45 25.4 × 35 30 × 25 | 25.4 × 45 30 × 35 35 × 30 |
| 15000 | 22 × 30 25.4 × 25 | 22 × 35 25.4 × 30 30 × 25 | 22 × 50 25.4 × 40 30 × 30 | 30 × 40 35 × 35 |
| 18000 | 22 × 35 25.4 × 25 | 22 × 40 25.4 × 35 30 × 30 | 25.4 × 45 30 × 35 | 30 × 45 35 × 40 |
| 22000 | 22 × 40 25.4 × 30 30 × 25 | 22 × 50 25.4 × 40 30 × 30 | 30 × 35 35 × 30 | 35 × 45 |
| 27000 | 22 × 45 25.4 × 35 30 × 30 | 25.4 × 45 30 × 35 35 × 25 | 30 × 45 35 × 35 | |
| 33000 | 22 × 50 25.4 × 40 30 × 30 35 × 25 | 30 × 40 35 × 30 | 30 × 50 35 × 40 | |
| 39000 | 25.4 × 45 30 × 35 35 × 30 | 30 × 45 35 × 35 | 35 × 45 | |
| 47000 | 25.4 × 50 30 × 40 35 × 30 | 30 × 50 35 × 40 | | |
| 56000 | 30 × 45 35 × 35 | 35 × 45 | | |
| 68000 | 35 × 40 | 35 × 50 | | |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Overview of available types B41231

| V_R (V DC) | 50 | 63 | 80 | 100 |
|-----------------|--|--|---------------------------------|---------------------------------|
| | Case dimensions d × l (mm) | | | |
| C_R (μF) | | | | |
| 1200 | | | 22 × 25 | 22 × 30 25.4 × 25 |
| 1500 | | | 22 × 30 | 22 × 35 25.4 × 30 30 × 25 |
| 1800 | | 22 × 25 | 22 × 30 25.4 × 25 | 22 × 40 25.4 × 35 30 × 30 |
| 2200 | | 22 × 30 25.4 × 25 | 22 × 35 25.4 × 30 30 × 25 | 22 × 45 25.4 × 40 30 × 30 |
| 2700 | | 22 × 35 25.4 × 30 | 22 × 40 25.4 × 35 30 × 30 | 25.4 × 45 30 × 35 35 × 30 |
| 3300 | 22 × 30 25.4 × 25 | 22 × 35 25.4 × 30 30 × 25 | 22 × 45 25.4 × 40 30 × 30 | 25.4 × 50 30 × 40 35 × 35 |
| 3900 | | 22 × 40 25.4 × 35 30 × 30 | 22 × 50 25.4 × 45 30 × 35 | 30 × 45 35 × 35 |
| 4700 | 22 × 40 25.4 × 35 30 × 25 35 × 25 | 22 × 50 25.4 × 40 30 × 35 35 × 30 | 25.4 × 50 30 × 40 35 × 30 | 30 × 50 35 × 40 |
| 5600 | 22 × 45 25.4 × 40 30 × 30 35 × 25 | 25.4 × 45 30 × 35 35 × 30 | 30 × 45 35 × 35 | 35 × 45 |
| 6800 | 22 × 50 25.4 × 45 30 × 35 35 × 30 | 25.4 × 50 30 × 40 35 × 30 | 35 × 40 | |
| 8200 | 25.4 × 50 30 × 40 35 × 30 | 30 × 45 35 × 35 | 35 × 45 | |
| 10000 | 30 × 45 35 × 35 | 30 × 50 35 × 40 | | |
| 12000 | 30 × 50 35 × 40 | 35 × 45 | | |
| 15000 | 35 × 45 | | | |
| 18000 | 35 × 50 | | | |

Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Overview of available types B43231

| V_R (V DC) | 160 | 200 | 250 | 315 |
|-----------------|--|--|--|--|
| | Case dimensions d × l (mm) | | | |
| C_R (μF) | | | | |
| 100 | | | | 22 × 20 |
| 120 | | | | 22 × 25 25.4 × 20 |
| 150 | | | 22 × 25 25.4 × 20 | 22 × 30 25.4 × 25 30 × 20 |
| 180 | | 22 × 20 | 22 × 25 25.4 × 20 | 22 × 35 25.4 × 30 30 × 25 35 × 20 |
| 220 | 22 × 20 | 22 × 25 25.4 × 20 | 22 × 25 25.4 × 25 30 × 20 | 22 × 40 25.4 × 30 30 × 25 35 × 20 |
| 270 | 22 × 25 25.4 × 20 | 22 × 25 25.4 × 25 30 × 20 | 22 × 30 25.4 × 25 30 × 20 | 22 × 45 25.4 × 35 30 × 30 35 × 25 |
| 330 | 22 × 25 25.4 × 20 | 22 × 30 25.4 × 25 30 × 20 | 22 × 35 25.4 × 30 30 × 25 35 × 20 | 22 × 50 25.4 × 40 30 × 35 35 × 30 |
| 390 | 22 × 25 25.4 × 25 30 × 20 | 22 × 30 25.4 × 25 30 × 25 35 × 20 | 22 × 40 25.4 × 30 30 × 25 35 × 20 | 25.4 × 45 30 × 35 35 × 30 |
| 470 | 22 × 30 25.4 × 25 30 × 20 | 22 × 35 25.4 × 30 30 × 25 35 × 20 | 22 × 45 25.4 × 35 30 × 30 35 × 25 | 35 × 35 30 × 40 |
| 560 | 22 × 35 25.4 × 30 30 × 25 35 × 20 | 22 × 40 25.4 × 35 30 × 25 35 × 20 | 22 × 50 25.4 × 40 30 × 30 35 × 25 | 35 × 40 |
| 680 | 22 × 40 25.4 × 30 30 × 25 35 × 20 | 22 × 45 25.4 × 40 30 × 30 35 × 25 | 25.4 × 45 30 × 35 35 × 30 | 35 × 45 |
| 820 | 22 × 45 25.4 × 35 30 × 30 35 × 25 | 22 × 50 25.4 × 45 30 × 35 35 × 30 | 30 × 40 35 × 35 | 35 × 50 |

Please read *Cautions and warnings* and
Important notes at the end of this document.


Snap-in capacitors
B41231, B43231
Standard series – 85 °C
Overview of available types B43231

| V_R (V DC) | 160 | 200 | 250 | 315 |
|------------------|--|----------------------------------|----------------------------------|-----|
| | Case dimensions $d \times l$ (mm) | | | |
| C_R (μ F) | | | | |
| 1000 | 22 \times 50 25.4 \times 40 30 \times 30 35 \times 25 | 30 \times 40 35 \times 30 | 30 \times 45 35 \times 40 | |
| 1200 | 25.4 \times 45 30 \times 35 35 \times 30 | 30 \times 45 35 \times 35 | 35 \times 45 | |
| 1500 | 30 \times 40 35 \times 35 | 30 \times 50 35 \times 40 | 35 \times 50 | |
| 1800 | 35 \times 40 | 35 \times 45 | | |

Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Overview of available types B43231

| V_R (V DC) | 350 | 400 | 450 | 500 |
|-----------------|--|--|--|----------------------|
| | Case dimensions d × l (mm) | | | |
| C_R (μF) | | | | |
| 56 | | | 22 × 20 | |
| 68 | | 22 × 20 | 22 × 25 25.4 × 20 | 22 × 30 |
| 82 | 22 × 20 | 22 × 25 25.4 × 20 | 22 × 30 25.4 × 25 30 × 20 | 22 × 35 25.4 × 30 |
| 100 | 22 × 25 25.4 × 20 | 22 × 30 25.4 × 25 30 × 20 | 22 × 35 25.4 × 30 30 × 25 35 × 20 | 22 × 40 25.4 × 35 |
| 120 | 22 × 30 25.4 × 25 30 × 20 | 22 × 30 25.4 × 25 30 × 20 | 22 × 40 25.4 × 35 30 × 25 35 × 20 | 25.4 × 40 |
| 150 | 22 × 35 25.4 × 30 30 × 20 | 22 × 35 25.4 × 30 30 × 25 35 × 20 | 22 × 50 25.4 × 40 30 × 30 35 × 25 | 30 × 35 |
| 180 | 22 × 40 25.4 × 35 30 × 25 35 × 20 | 22 × 40 25.4 × 35 30 × 25 35 × 25 | 25.4 × 45 30 × 35 35 × 25 | 30 × 40 |
| 220 | 22 × 45 25.4 × 35 30 × 30 35 × 25 | 22 × 45 25.4 × 40 30 × 30 35 × 25 | 25.4 × 50 30 × 40 35 × 30 | 30 × 45 |
| 270 | 25.4 × 45 30 × 35 35 × 25 | 25.4 × 45 30 × 35 35 × 30 | 30 × 45 35 × 35 | 35 × 45 |
| 330 | 25.4 × 50 30 × 40 35 × 30 | 25.4 × 50 30 × 40 35 × 30 | 30 × 50 35 × 40 | 35 × 50 |
| 390 | 30 × 45 35 × 35 | 30 × 45 35 × 35 | 35 × 45 | |
| 470 | 30 × 50 35 × 40 | 30 × 50 35 × 40 | 35 × 50 | |
| 560 | 35 × 45 | 35 × 45 | | |
| 680 | 35 × 50 | | | |

Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B41231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 10 | 12000 | 22 × 25 | 3.31 | B41231A3129M000 |
| | 15000 | 22 × 30 | 3.82 | B41231A3159M000 |
| | 15000 | 25.4 × 25 | 3.39 | B41231B3159M000 |
| | 18000 | 22 × 35 | 4.28 | B41231A3189M000 |
| | 18000 | 25.4 × 25 | 4.17 | B41231B3189M000 |
| | 22000 | 22 × 40 | 4.79 | B41231A3229M000 |
| | 22000 | 25.4 × 30 | 4.71 | B41231B3229M000 |
| | 22000 | 30 × 25 | 4.83 | B41231C3229M000 |
| | 27000 | 22 × 45 | 5.30 | B41231A3279M000 |
| | 27000 | 25.4 × 35 | 5.26 | B41231B3279M000 |
| | 27000 | 30 × 30 | 5.41 | B41231C3279M000 |
| | 33000 | 22 × 50 | 5.82 | B41231A3339M000 |
| | 33000 | 25.4 × 40 | 5.81 | B41231B3339M000 |
| | 33000 | 30 × 30 | 5.69 | B41231C3339M000 |
| | 33000 | 35 × 25 | 5.81 | B41231D3339M000 |
| | 39000 | 25.4 × 45 | 6.31 | B41231A3399M000 |
| | 39000 | 30 × 35 | 6.22 | B41231B3399M000 |
| | 39000 | 35 × 30 | 6.38 | B41231C3399M000 |
| | 47000 | 25.4 × 50 | 6.83 | B41231A3479M000 |
| | 47000 | 30 × 40 | 6.78 | B41231B3479M000 |
| 47000 | 35 × 30 | 6.62 | B41231C3479M000 | |
| 56000 | 30 × 45 | 7.31 | B41231A3569M000 | |
| 56000 | 35 × 35 | 7.18 | B41231B3569M000 | |
| 68000 | 35 × 40 | 7.76 | B41231A3689M000 | |
| 16 | 10000 | 22 × 25 | 3.32 | B41231A4109M000 |
| | 12000 | 22 × 30 | 3.55 | B41231A4129M000 |
| | 12000 | 25.4 × 25 | 3.89 | B41231B4129M000 |
| | 15000 | 22 × 35 | 4.29 | B41231A4159M000 |
| | 15000 | 25.4 × 30 | 4.45 | B41231B4159M000 |
| | 15000 | 30 × 25 | 4.56 | B41231C4159M000 |
| | 18000 | 22 × 40 | 4.77 | B41231A4189M000 |
| | 18000 | 25.4 × 35 | 4.96 | B41231B4189M000 |
| | 18000 | 30 × 30 | 5.10 | B41231C4189M000 |
| | 22000 | 22 × 50 | 5.51 | B41231A4229M000 |
| | 22000 | 25.4 × 40 | 5.51 | B41231B4229M000 |
| | 22000 | 30 × 30 | 5.39 | B41231C4229M000 |
| | 27000 | 25.4 × 45 | 6.06 | B41231A4279M000 |
| | 27000 | 30 × 35 | 5.98 | B41231B4279M000 |
| | 27000 | 35 × 25 | 5.80 | B41231C4279M000 |
| | 33000 | 30 × 40 | 6.56 | B41231A4339M000 |
| | 33000 | 35 × 30 | 6.41 | B41231B4339M000 |
| | 39000 | 30 × 45 | 7.08 | B41231A4399M000 |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B41231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 16 | 39000 | 35 × 35 | 6.96 | B41231B4399M000 |
| | 47000 | 30 × 50 | 7.62 | B41231A4479M000 |
| | 47000 | 35 × 40 | 7.54 | B41231B4479M000 |
| | 56000 | 35 × 45 | 8.08 | B41231A4569M000 |
| | 68000 | 35 × 50 | 8.53 | B41231A4689M000 |
| 25 | 5600 | 22 × 25 | 2.65 | B41231A5568M000 |
| | 6800 | 22 × 30 | 3.06 | B41231A5688M000 |
| | 6800 | 25.4 × 25 | 3.15 | B41231B5688M000 |
| | 8200 | 22 × 35 | 3.45 | B41231A5828M000 |
| | 8200 | 25.4 × 30 | 3.57 | B41231B5828M000 |
| | 10000 | 22 × 40 | 3.95 | B41231A5109M000 |
| | 10000 | 25.4 × 30 | 3.89 | B41231B5109M000 |
| | 12000 | 22 × 45 | 4.41 | B41231A5129M000 |
| | 12000 | 25.4 × 35 | 4.37 | B41231B5129M000 |
| | 12000 | 30 × 25 | 3.99 | B41231C5129M000 |
| | 15000 | 22 × 50 | 4.94 | B41231A5159M000 |
| | 15000 | 25.4 × 40 | 4.94 | B41231B5159M000 |
| | 15000 | 30 × 30 | 4.50 | B41231C5159M000 |
| | 18000 | 25.4 × 45 | 5.45 | B41231A5189M000 |
| | 18000 | 30 × 35 | 5.10 | B41231B5189M000 |
| | 22000 | 30 × 35 | 5.38 | B41231A5229M000 |
| | 22000 | 35 × 30 | 5.51 | B41231B5229M000 |
| | 27000 | 30 × 45 | 6.22 | B41231A5279M000 |
| | 27000 | 35 × 35 | 6.12 | B41231B5279M000 |
| | 33000 | 30 × 50 | 6.82 | B41231A5339M000 |
| 33000 | 35 × 40 | 6.74 | B41231B5339M000 | |
| 39000 | 35 × 45 | 7.35 | B41231A5399M000 | |
| 35 | 4700 | 22 × 30 | 3.06 | B41231A7478M000 |
| | 4700 | 25.4 × 25 | 2.98 | B41231B7478M000 |
| | 5600 | 22 × 35 | 3.28 | B41231A7568M000 |
| | 5600 | 25.4 × 30 | 3.39 | B41231B7568M000 |
| | 6800 | 22 × 40 | 3.73 | B41231A7688M000 |
| | 6800 | 25.4 × 30 | 3.67 | B41231B7688M000 |
| | 6800 | 30 × 25 | 3.76 | B41231C7688M000 |
| | 8200 | 22 × 45 | 4.13 | B41231A7828M000 |
| | 8200 | 25.4 × 35 | 4.10 | B41231B7828M000 |
| | 8200 | 30 × 30 | 4.22 | B41231C7828M000 |
| | 10000 | 22 × 50 | 4.68 | B41231A7109M000 |
| | 10000 | 25.4 × 40 | 4.68 | B41231B7109M000 |
| | 10000 | 30 × 30 | 4.58 | B41231C7109M000 |
| | 12000 | 25.4 × 45 | 5.18 | B41231A7129M000 |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B41231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 35 | 12000 | 30 × 35 | 5.11 | B41231C7129M000 |
| | 12000 | 35 × 30 | 5.24 | B41231D7129M000 |
| | 15000 | 30 × 40 | 5.72 | B41231A7159M000 |
| | 15000 | 35 × 35 | 5.88 | B41231B7159M000 |
| | 18000 | 30 × 45 | 6.28 | B41231A7189M000 |
| | 18000 | 35 × 40 | 6.46 | B41231B7189M000 |
| | 22000 | 35 × 45 | 7.07 | B41231A7229M000 |
| 50 | 3300 | 22 × 30 | 2.97 | B41231A6338M000 |
| | 3300 | 25.4 × 25 | 3.06 | B41231B6338M000 |
| | 4700 | 22 × 40 | 3.83 | B41231A6478M000 |
| | 4700 | 25.4 × 35 | 3.98 | B41231B6478M000 |
| | 4700 | 30 × 25 | 3.86 | B41231C6478M000 |
| | 4700 | 35 × 25 | 4.19 | B41231D6478M000 |
| | 5600 | 22 × 45 | 4.26 | B41231A6568M000 |
| | 5600 | 25.4 × 40 | 4.44 | B41231B6568M000 |
| | 5600 | 30 × 30 | 4.35 | B41231C6568M000 |
| | 5600 | 35 × 25 | 4.44 | B41231D6568M000 |
| | 6800 | 22 × 50 | 4.77 | B41231A6688M000 |
| | 6800 | 25.4 × 45 | 4.76 | B41231B6688M000 |
| | 6800 | 30 × 35 | 4.92 | B41231C6688M000 |
| | 6800 | 35 × 30 | 5.04 | B41231D6688M000 |
| | 8200 | 25.4 × 50 | 5.43 | B41231A6828M000 |
| | 8200 | 30 × 40 | 5.38 | B41231B6828M000 |
| | 8200 | 35 × 30 | 5.26 | B41231C6828M000 |
| | 10000 | 30 × 45 | 6.07 | B41231A6109M000 |
| | 10000 | 35 × 35 | 5.97 | B41231B6109M000 |
| | 12000 | 30 × 50 | 6.62 | B41231A6129M000 |
| 12000 | 35 × 40 | 6.55 | B41231B6129M000 | |
| 15000 | 35 × 45 | 7.20 | B41231A6159M000 | |
| 18000 | 35 × 50 | 7.74 | B41231A6189M000 | |
| 63 | 1800 | 22 × 25 | 2.20 | B41231A8188M000 |
| | 2200 | 22 × 30 | 2.50 | B41231A8228M000 |
| | 2200 | 25.4 × 25 | 2.58 | B41231B8228M000 |
| | 2700 | 22 × 35 | 2.94 | B41231A8278M000 |
| | 2700 | 25.4 × 30 | 3.04 | B41231B8278M000 |
| | 3300 | 22 × 35 | 3.14 | B41231A8338M000 |
| | 3300 | 25.4 × 30 | 3.26 | B41231B8338M000 |
| | 3300 | 30 × 25 | 3.34 | B41231C8338M000 |
| | 3900 | 22 × 40 | 3.60 | B41231A8398M000 |
| | 3900 | 25.4 × 35 | 3.74 | B41231B8398M000 |
| | 3900 | 30 × 30 | 3.85 | B41231C8398M000 |

Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B41231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 63 | 4700 | 22 × 50 | 4.19 | B41231A8478M000 |
| | 4700 | 25.4 × 40 | 4.19 | B41231B8478M000 |
| | 4700 | 30 × 35 | 4.10 | B41231C8478M000 |
| | 4700 | 35 × 30 | 4.19 | B41231D8478M000 |
| | 5600 | 25.4 × 45 | 4.65 | B41231A8568M000 |
| | 5600 | 30 × 35 | 4.58 | B41231B8568M000 |
| | 5600 | 35 × 30 | 4.70 | B41231C8568M000 |
| | 6800 | 25.4 × 50 | 5.20 | B41231A8688M000 |
| | 6800 | 30 × 40 | 5.16 | B41231B8688M000 |
| | 6800 | 35 × 30 | 5.04 | B41231C8688M000 |
| | 8200 | 30 × 45 | 5.62 | B41231A8828M000 |
| | 8200 | 35 × 35 | 5.53 | B41231B8828M000 |
| | 10000 | 30 × 50 | 6.32 | B41231A8109M000 |
| | 10000 | 35 × 40 | 6.25 | B41231B8109M000 |
| 12000 | 35 × 45 | 6.83 | B41231A8129M000 | |
| 80 | 1200 | 22 × 25 | 2.24 | B41231A0128M000 |
| | 1500 | 22 × 30 | 2.67 | B41231A0158M000 |
| | 1800 | 22 × 30 | 2.92 | B41231A0188M000 |
| | 1800 | 25.4 × 25 | 3.01 | B41231B0188M000 |
| | 2200 | 22 × 35 | 3.25 | B41231A0228M000 |
| | 2200 | 25.4 × 30 | 3.36 | B41231B0228M000 |
| | 2200 | 30 × 25 | 3.45 | B41231C0228M000 |
| | 2700 | 22 × 40 | 3.79 | B41231A0278M000 |
| | 2700 | 25.4 × 35 | 3.94 | B41231B0278M000 |
| | 2700 | 30 × 30 | 4.05 | B41231C0278M000 |
| | 3300 | 22 × 45 | 4.18 | B41231A0338M000 |
| | 3300 | 25.4 × 40 | 4.36 | B41231B0338M000 |
| | 3300 | 30 × 30 | 4.27 | B41231C0338M000 |
| | 3900 | 22 × 50 | 4.75 | B41231A0398M000 |
| | 3900 | 25.4 × 45 | 4.96 | B41231B0398M000 |
| | 3900 | 30 × 35 | 4.89 | B41231C0398M000 |
| | 4700 | 25.4 × 50 | 5.44 | B41231A0478M000 |
| | 4700 | 30 × 40 | 5.39 | B41231B0478M000 |
| | 4700 | 35 × 30 | 5.27 | B41231C0478M000 |
| | 5600 | 30 × 45 | 5.91 | B41231A0568M000 |
| | 5600 | 35 × 35 | 5.81 | B41231B0568M000 |
| | 6800 | 35 × 40 | 5.46 | B41231A0688M000 |
| 8200 | 35 × 45 | 6.91 | B41231A0828M000 | |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B41231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 100 | 1200 | 22 × 30 | 2.39 | B41231A9128M000 |
| | 1200 | 25.4 × 25 | 2.46 | B41231B9128M000 |
| | 1500 | 22 × 35 | 2.83 | B41231A9158M000 |
| | 1500 | 25.4 × 30 | 2.93 | B41231B9158M000 |
| | 1500 | 30 × 25 | 3.00 | B41231C9158M000 |
| | 1800 | 22 × 40 | 3.26 | B41231A9188M000 |
| | 1800 | 25.4 × 35 | 3.39 | B41231B9188M000 |
| | 1800 | 30 × 30 | 3.49 | B41231C9188M000 |
| | 2200 | 22 × 45 | 3.58 | B41231A9228M000 |
| | 2200 | 25.4 × 40 | 3.74 | B41231B9228M000 |
| | 2200 | 30 × 30 | 3.66 | B41231C9228M000 |
| | 2700 | 25.4 × 45 | 4.33 | B41231A9278M000 |
| | 2700 | 30 × 35 | 4.27 | B41231B9278M000 |
| | 2700 | 35 × 30 | 4.37 | B41231C9278M000 |
| | 3300 | 25.4 × 50 | 4.76 | B41231A9338M000 |
| | 3300 | 30 × 40 | 4.72 | B41231B9338M000 |
| | 3300 | 35 × 35 | 4.85 | B41231C9338M000 |
| | 3900 | 30 × 45 | 5.36 | B41231A9398M000 |
| | 3900 | 35 × 35 | 5.27 | B41231B9398M000 |
| | 4700 | 30 × 50 | 5.86 | B41231A9478M000 |
| 4700 | 35 × 40 | 5.80 | B41231B9478M000 | |
| 5600 | 35 × 45 | 6.34 | B41231A9568M000 | |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B43231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 160 | 220 | 22 × 20 | 1.01 | B43231A1227M000 |
| | 270 | 22 × 25 | 1.20 | B43231A1277M000 |
| | 270 | 25.4 × 20 | 1.32 | B43231B1277M000 |
| | 330 | 22 × 25 | 1.33 | B43231A1337M000 |
| | 330 | 25.4 × 20 | 1.36 | B43231B1337M000 |
| | 390 | 22 × 25 | 1.45 | B43231A1397M000 |
| | 390 | 25.4 × 25 | 1.59 | B43231B1397M000 |
| | 390 | 30 × 20 | 1.62 | B43231C1397M000 |
| | 470 | 22 × 30 | 1.69 | B43231A1477M000 |
| | 470 | 25.4 × 25 | 1.75 | B43231B1477M000 |
| | 470 | 30 × 20 | 1.78 | B43231C1477M000 |
| | 560 | 22 × 35 | 1.96 | B43231A1567M000 |
| | 560 | 25.4 × 30 | 2.03 | B43231B1567M000 |
| | 560 | 30 × 25 | 2.08 | B43231C1567M000 |
| | 560 | 35 × 20 | 2.12 | B43231D1567M000 |
| | 680 | 22 × 40 | 2.27 | B43231A1687M000 |
| | 680 | 25.4 × 30 | 2.23 | B43231B1687M000 |
| | 680 | 30 × 25 | 2.29 | B43231C1687M000 |
| | 680 | 35 × 20 | 2.33 | B43231D1687M000 |
| | 820 | 22 × 45 | 2.61 | B43231A1827M000 |
| | 820 | 25.4 × 35 | 2.59 | B43231B1827M000 |
| | 820 | 30 × 30 | 2.67 | B43231C1827M000 |
| | 820 | 35 × 25 | 2.73 | B43231D1827M000 |
| | 1000 | 22 × 50 | 3.01 | B43231A1108M000 |
| | 1000 | 25.4 × 40 | 3.01 | B43231B1108M000 |
| | 1000 | 30 × 30 | 2.95 | B43231C1108M000 |
| 1000 | 35 × 25 | 3.01 | B43231D1108M000 | |
| 1200 | 25.4 × 45 | 3.23 | B43231A1128M000 | |
| 1200 | 30 × 35 | 3.18 | B43231B1128M000 | |
| 1200 | 35 × 30 | 3.26 | B43231C1128M000 | |
| 1500 | 30 × 40 | 3.73 | B43231A1158M000 | |
| 1500 | 35 × 35 | 3.83 | B43231B1158M000 | |
| 1800 | 35 × 40 | 4.39 | B43231A1188M000 | |
| 200 | 180 | 22 × 20 | 0.91 | B43231A2187M000 |
| | 220 | 22 × 25 | 1.09 | B43231A2227M000 |
| | 220 | 25.4 × 20 | 1.11 | B43231B2227M000 |
| | 270 | 22 × 25 | 1.20 | B43231A2277M000 |
| | 270 | 25.4 × 25 | 1.32 | B43231B2277M000 |
| | 270 | 30 × 20 | 1.35 | B43231C2277M000 |
| | 330 | 22 × 30 | 1.42 | B43231A2337M000 |
| | 330 | 25.4 × 25 | 1.46 | B43231B2337M000 |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B43231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 200 | 330 | 30 × 20 | 1.49 | B43231C2337M000 |
| | 390 | 22 × 30 | 1.54 | B43231A2397M000 |
| | 390 | 25.4 × 25 | 1.59 | B43231B2397M000 |
| | 390 | 30 × 25 | 1.74 | B43231C2397M000 |
| | 390 | 35 × 20 | 1.77 | B43231D2397M000 |
| | 470 | 22 × 35 | 1.79 | B43231A2477M000 |
| | 470 | 25.4 × 30 | 1.86 | B43231B2477M000 |
| | 470 | 30 × 25 | 1.90 | B43231C2477M000 |
| | 470 | 35 × 20 | 1.94 | B43231D2477M000 |
| | 560 | 22 × 40 | 2.06 | B43231A2567M000 |
| | 560 | 25.4 × 35 | 2.14 | B43231B2567M000 |
| | 560 | 30 × 25 | 2.08 | B43231C2567M000 |
| | 560 | 35 × 20 | 2.25 | B43231D2567M000 |
| | 680 | 22 × 45 | 2.38 | B43231A2687M000 |
| | 680 | 25.4 × 40 | 2.48 | B43231B2687M000 |
| | 680 | 30 × 30 | 2.43 | B43231C2687M000 |
| | 680 | 35 × 25 | 2.48 | B43231D2687M000 |
| | 820 | 22 × 50 | 2.73 | B43231A2827M000 |
| | 820 | 25.4 × 45 | 2.85 | B43231B2827M000 |
| | 820 | 30 × 35 | 2.81 | B43231C2827M000 |
| | 820 | 35 × 30 | 2.88 | B43231D2827M000 |
| | 1000 | 30 × 40 | 3.26 | B43231A2108M000 |
| | 1000 | 35 × 30 | 3.18 | B43231B2108M000 |
| | 1200 | 30 × 45 | 3.49 | B43231A2128M000 |
| 1200 | 35 × 35 | 3.43 | B43231B2128M000 | |
| 1500 | 30 × 50 | 4.06 | B43231A2158M000 | |
| 1500 | 35 × 40 | 4.01 | B43231B2158M000 | |
| 1800 | 35 × 45 | 4.58 | B43231A2188M000 | |
| 250 | 150 | 22 × 25 | 0.90 | B43231E2157M000 |
| | 150 | 25.4 × 20 | 0.92 | B43231F2157M000 |
| | 180 | 22 × 25 | 0.90 | B43231E2187M000 |
| | 180 | 25.4 × 20 | 1.01 | B43231F2187M000 |
| | 220 | 22 × 25 | 1.09 | B43231E2227M000 |
| | 220 | 25.4 × 25 | 1.19 | B43231F2227M000 |
| | 220 | 30 × 20 | 1.22 | B43231G2227M000 |
| | 270 | 22 × 30 | 1.28 | B43231E2277M000 |
| | 270 | 25.4 × 25 | 1.32 | B43231F2277M000 |
| | 270 | 30 × 20 | 1.35 | B43231G2277M000 |
| | 330 | 22 × 35 | 1.50 | B43231E2337M000 |
| | 330 | 25.4 × 30 | 1.56 | B43231F2337M000 |
| | 330 | 30 × 25 | 1.60 | B43231G2337M000 |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B43231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 250 | 330 | 35 × 20 | 1.62 | B43231H2337M000 |
| | 390 | 22 × 40 | 1.72 | B43231E2397M000 |
| | 390 | 25.4 × 30 | 1.69 | B43231F2397M000 |
| | 390 | 30 × 25 | 1.73 | B43231G2397M000 |
| | 390 | 35 × 20 | 1.77 | B43231H2397M000 |
| | 470 | 22 × 45 | 1.98 | B43231E2477M000 |
| | 470 | 25.4 × 35 | 1.96 | B43231F2477M000 |
| | 470 | 30 × 30 | 2.02 | B43231G2477M000 |
| | 470 | 35 × 25 | 2.06 | B43231H2477M000 |
| | 560 | 22 × 50 | 2.26 | B43231E2567M000 |
| | 560 | 25.4 × 40 | 2.25 | B43231F2567M000 |
| | 560 | 30 × 30 | 2.20 | B43231G2567M000 |
| | 560 | 35 × 25 | 2.25 | B43231H2567M000 |
| | 680 | 25.4 × 45 | 2.60 | B43231F2687M000 |
| | 680 | 30 × 35 | 2.56 | B43231E2687M000 |
| | 680 | 35 × 30 | 2.62 | B43231G2687M000 |
| | 820 | 30 × 40 | 2.95 | B43231E2827M000 |
| | 820 | 35 × 35 | 3.03 | B43231F2827M000 |
| 1000 | 30 × 45 | 3.40 | B43231E2108M000 | |
| 1000 | 35 × 40 | 3.50 | B43231F2108M000 | |
| 1200 | 35 × 45 | 3.74 | B43231E2128M000 | |
| 1500 | 35 × 50 | 4.35 | B43231E2158M000 | |
| 315 | 100 | 22 × 20 | 0.68 | B43231A0107M000 |
| | 120 | 22 × 25 | 0.80 | B43231A0127M000 |
| | 120 | 25.4 × 20 | 0.82 | B43231B0127M000 |
| | 150 | 22 × 30 | 0.96 | B43231A0157M000 |
| | 150 | 25.4 × 25 | 0.99 | B43231B0157M000 |
| | 150 | 30 × 20 | 1.01 | B43231C0157M000 |
| | 180 | 22 × 35 | 1.11 | B43231A0187M000 |
| | 180 | 25.4 × 30 | 1.15 | B43231B0187M000 |
| | 180 | 30 × 25 | 1.18 | B43231C0187M000 |
| | 180 | 35 × 20 | 1.20 | B43231D0187M000 |
| | 220 | 22 × 40 | 1.29 | B43231A0227M000 |
| | 220 | 25.4 × 30 | 1.27 | B43231B0227M000 |
| | 220 | 30 × 25 | 1.30 | B43231C0227M000 |
| | 220 | 35 × 20 | 1.33 | B43231D0227M000 |
| | 270 | 22 × 45 | 1.50 | B43231A0277M000 |
| | 270 | 25.4 × 35 | 1.49 | B43231B0277M000 |
| | 270 | 30 × 30 | 1.53 | B43231C0277M000 |
| | 270 | 35 × 25 | 1.56 | B43231D0277M000 |
| 330 | 22 × 50 | 1.73 | B43231A0337M000 | |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B43231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 315 | 330 | 25.4 × 40 | 1.73 | B43231B0337M000 |
| | 330 | 30 × 35 | 1.78 | B43231C0337M000 |
| | 330 | 35 × 30 | 1.83 | B43231D0337M000 |
| | 390 | 25.4 × 45 | 1.97 | B43231A0397M000 |
| | 390 | 30 × 35 | 1.94 | B43231B0397M000 |
| | 390 | 35 × 30 | 1.99 | B43231C0397M000 |
| | 470 | 30 × 40 | 2.23 | B43231A0477M000 |
| | 470 | 35 × 35 | 2.29 | B43231B0477M000 |
| | 560 | 35 × 40 | 2.62 | B43231A0567M000 |
| | 680 | 35 × 45 | 3.01 | B43231A0687M000 |
| | 820 | 35 × 50 | 3.44 | B43231A0827M000 |
| 350 | 82 | 22 × 20 | 0.62 | B43231A4826M000 |
| | 100 | 22 × 25 | 0.73 | B43231A4107M000 |
| | 100 | 25.4 × 20 | 0.75 | B43231B4107M000 |
| | 120 | 22 × 30 | 0.86 | B43231A4127M000 |
| | 120 | 25.4 × 25 | 0.88 | B43231B4127M000 |
| | 120 | 30 × 20 | 0.90 | B43231C4127M000 |
| | 150 | 22 × 35 | 1.01 | B43231A4157M000 |
| | 150 | 25.4 × 30 | 1.05 | B43231B4157M000 |
| | 150 | 30 × 20 | 1.01 | B43231C4157M000 |
| | 180 | 22 × 40 | 1.17 | B43231A4187M000 |
| | 180 | 25.4 × 35 | 1.21 | B43231B4187M000 |
| | 180 | 30 × 25 | 1.18 | B43231C4187M000 |
| | 180 | 35 × 20 | 1.20 | B43231D4187M000 |
| | 220 | 22 × 45 | 1.35 | B43231A4227M000 |
| | 220 | 25.4 × 35 | 1.34 | B43231B4227M000 |
| | 220 | 30 × 30 | 1.38 | B43231C4227M000 |
| | 220 | 35 × 25 | 1.41 | B43231D4227M000 |
| | 270 | 25.4 × 45 | 1.64 | B43231A4277M000 |
| | 270 | 30 × 35 | 1.61 | B43231B4277M000 |
| | 270 | 35 × 25 | 1.65 | B43231C4277M000 |
| | 330 | 25.4 × 50 | 1.89 | B43231A4337M000 |
| | 330 | 30 × 40 | 1.87 | B43231B4337M000 |
| | 330 | 35 × 30 | 1.83 | B43231C4337M000 |
| | 390 | 30 × 45 | 2.12 | B43231A4397M000 |
| | 390 | 35 × 35 | 2.09 | B43231B4397M000 |
| | 470 | 30 × 50 | 2.43 | B43231A4477M000 |
| | 470 | 35 × 40 | 2.40 | B43231B4477M000 |
| | 560 | 35 × 45 | 2.73 | B43231A4567M000 |
| | 680 | 35 × 50 | 3.13 | B43231A4687M000 |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B43231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 400 | 68 | 22 × 20 | 0.56 | B43231A9686M000 |
| | 82 | 22 × 25 | 0.66 | B43231A9826M000 |
| | 82 | 25.4 × 20 | 0.68 | B43231B9826M000 |
| | 100 | 22 × 30 | 0.78 | B43231A9107M000 |
| | 100 | 25.4 × 25 | 0.81 | B43231B9107M000 |
| | 100 | 30 × 20 | 0.82 | B43231C9107M000 |
| | 120 | 22 × 30 | 0.86 | B43231B9127M000 |
| | 120 | 25.4 × 25 | 0.88 | B43231A9127M000 |
| | 120 | 30 × 20 | 0.90 | B43231C9127M000 |
| | 150 | 22 × 35 | 1.01 | B43231A9157M000 |
| | 150 | 25.4 × 30 | 1.05 | B43231B9157M000 |
| | 150 | 30 × 25 | 1.08 | B43231C9157M000 |
| | 150 | 35 × 20 | 1.09 | B43231D9157M000 |
| | 180 | 22 × 40 | 1.17 | B43231A9187M000 |
| | 180 | 25.4 × 35 | 1.21 | B43231B9187M000 |
| | 180 | 30 × 25 | 1.18 | B43231C9187M000 |
| | 180 | 35 × 25 | 1.28 | B43231D9187M000 |
| | 220 | 22 × 45 | 1.35 | B43231E9227M000 |
| | 220 | 25.4 × 40 | 1.41 | B43231F9227M000 |
| | 220 | 30 × 30 | 1.38 | B43231B9227M000 |
| | 220 | 35 × 25 | 1.41 | B43231D9227M000 |
| | 270 | 25.4 × 45 | 1.64 | B43231A9277M000 |
| | 270 | 30 × 35 | 1.61 | B43231B9277M000 |
| | 270 | 35 × 30 | 1.65 | B43231C9277M000 |
| | 330 | 25.4 × 50 | 1.89 | B43231C9337M000 |
| | 330 | 30 × 40 | 1.87 | B43231A9337M000 |
| | 330 | 35 × 30 | 1.83 | B43231B9337M000 |
| 390 | 30 × 45 | 2.12 | B43231C9397M000 | |
| 390 | 35 × 35 | 2.09 | B43231B9397M000 | |
| 470 | 30 × 50 | 2.43 | B43231B9477M000 | |
| 470 | 35 × 40 | 2.40 | B43231A9477M000 | |
| 560 | 35 × 45 | 2.73 | B43231A9567M000 | |
| 450 | 56 | 22 × 20 | 0.39 | B43231A5566M000 |
| | 68 | 22 × 25 | 0.46 | B43231A5686M000 |
| | 68 | 25.4 × 20 | 0.47 | B43231B5686M000 |
| | 82 | 22 × 30 | 0.54 | B43231A5826M000 |
| | 82 | 25.4 × 25 | 0.56 | B43231B5826M000 |
| | 82 | 30 × 20 | 0.57 | B43231C5826M000 |
| | 100 | 22 × 35 | 0.63 | B43231A5107M000 |
| | 100 | 25.4 × 30 | 0.65 | B43231B5107M000 |
| | 100 | 30 × 25 | 0.67 | B43231C5107M000 |

Please read *Cautions and warnings* and *Important notes* at the end of this document.



Snap-in capacitors

B41231, B43231

Standard series – 85 °C

Technical data and ordering codes B43231

| V _R V DC | C _R 120 Hz 20 °C μF | Case dimensions d × l mm | I _{AC,R} 120 Hz 85 °C A | Ordering code |
|------------------------|---|-----------------------------------|---|-----------------|
| 450 | 100 | 35 × 20 | 0.68 | B43231D5107M000 |
| | 120 | 22 × 40 | 0.73 | B43231B5127M000 |
| | 120 | 25.4 × 35 | 0.76 | B43231A5127M000 |
| | 120 | 30 × 25 | 0.73 | B43231C5127M000 |
| | 120 | 35 × 20 | 0.75 | B43231D5127M000 |
| | 150 | 22 × 50 | 0.89 | B43231A5157M000 |
| | 150 | 25.4 × 40 | 0.89 | B43231B5157M000 |
| | 150 | 30 × 30 | 0.87 | B43231C5157M000 |
| | 150 | 35 × 25 | 0.89 | B43231D5157M000 |
| | 180 | 25.4 × 45 | 1.02 | B43231A5187M000 |
| | 180 | 30 × 35 | 1.01 | B43231B5187M000 |
| | 180 | 35 × 25 | 0.98 | B43231C5187M000 |
| | 220 | 25.4 × 50 | 1.18 | B43231B5227M000 |
| | 220 | 30 × 40 | 1.17 | B43231A5227M000 |
| | 220 | 35 × 30 | 1.14 | B43231C5227M000 |
| | 270 | 30 × 45 | 1.35 | B43231A5277M000 |
| | 270 | 35 × 35 | 1.33 | B43231B5277M000 |
| | 330 | 30 × 50 | 1.55 | B43231B5337M000 |
| 330 | 35 × 40 | 1.54 | B43231A5337M000 | |
| 390 | 35 × 45 | 1.74 | B43231A5397M000 | |
| 470 | 35 × 50 | 1.99 | B43231A5477M000 | |
| 500 | 68 | 22 × 30 | 0.49 | B43231A6686M000 |
| | 82 | 22 × 35 | 0.57 | B43231A6826M000 |
| | 82 | 25.4 × 30 | 0.59 | B43231B6826M000 |
| | 100 | 22 × 40 | 0.67 | B43231A6107M000 |
| | 100 | 25.4 × 35 | 0.69 | B43231B6107M000 |
| | 120 | 25.4 × 40 | 0.80 | B43231A6127M000 |
| | 150 | 30 × 35 | 0.92 | B43231A6157M000 |
| | 180 | 30 × 40 | 1.06 | B43231A6187M000 |
| | 220 | 30 × 45 | 1.22 | B43231A6227M000 |
| | 270 | 35 × 45 | 1.45 | B43231A6277M000 |
| | 330 | 35 × 50 | 1.66 | B43231A6337M000 |

Please read *Cautions and warnings* and
Important notes at the end of this document.



Cautions and warnings

General

Also see "Important notes" on page 23.

- 1 Aluminum electrolytic capacitors have a bi-polar structure. This is marked on the body of the capacitor. A capacitor must not be mounted with reversed polarity. The application of an AC or reverse voltage may cause a short circuit or damage the capacitor. Bi-polar capacitors must not be used in AC applications, where the polarity may be reversed in the circuits or is unknown.
- 2 The DC voltage applied to the capacitor terminal must not exceed its rated operating voltage, as this will result in a rapid increase of the leakage current and may damage the capacitor. It is recommended to operate the capacitor at 70–80% of its rated voltage to optimize its service life.
- 3 The ripple current applied to the capacitor must be within the permitted range. An excessive ripple current leads to impaired electrical properties and may damage the capacitor. Note that the sum of the peak values of the ripple voltage and the DC operating voltage must not exceed the rated DC voltage.
- 4 Capacitors must be used within their permitted range of operating temperature. Operation at room temperature optimizes their service life.
- 5 Capacitors with case diameter ≥ 8 mm are equipped with a safety vent. In capacitors fitted with a lead or soldering lug, the safety vent is usually located at the base of the case. It needs sufficient space around it to operate optimally. The following dimensions are recommended: for case diameter $d = 8$ to 16 mm, more than 2 mm; for $d = 18$ to 35 mm, more than 3 mm; and for $d = 42$ mm or more, more than 5 mm.
- 6 Capacitors should not be mounted with the safety vent face down on the board. Do not locate any wire or copper trace near the safety vent. Do not reverse the voltage, as this may result in excess pressure and the leakage of electrolyte.
- 7 Gas is released through the safety vent when the pressure inside the capacitor is too high. A gaseous liquid around the safety vent does not indicate a leakage of electrolyte.
- 8 The capacitor should be stored under conditions of normal temperature and in a non-acid, non-alkali environment of normal humidity. Exposure to high temperatures, for example under direct sunlight, will reduce its operating life. If the capacitor is stored in an environment containing acids or alkalis, the solderability of the leads may be affected.
- 9 The leakage current of an aluminum electrolytic capacitor may increase after a long period of storage. After such storage, the capacitor must be aged by applying the rated operating voltage for 6–8 hours before use.
- 10 Manual soldering:
 - a Soldering must be performed within the specified conditions.
Bit temperature: 350 °C; application time of soldering iron: 3 seconds.
 - b Ensure that the soldering iron does not touch any part of the capacitor body.



Cautions and warnings

- 11 Do not apply excessive force to the leads and terminals. Do not move the capacitor after soldering it onto the PC board and do not carry the PC board by gripping the capacitor. Observe the following rules to prevent undue stress to the capacitor:
 - a Do not tilt or bend the capacitor after soldering.
 - b Ensure that the terminal spacing matches the corresponding hole spacing on the PC board.
- 12 The aluminum case is not insulated from the cathode. Do not place a conductor under the aluminum capacitors on the PC board as this may cause a short circuit. The case and top of capacitors used in switched mode power supplies have a high-voltage-resistant heat shrink sleeve to ensure safe usage.
- 13 The leads of capacitors with a case diameter exceeding 14 mm cannot be used for fixing.





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