



# **Aluminum electrolytic capacitors**

## Alu-X product lines

Snap-in capacitors

**Series/Type:** B41252, B43252  
**Date:** April 2008

## 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 105 °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



**Specifications and characteristics in brief**

|  |   |           |   |        |        |           |              |            |                |                |                |                |
|--|---|-----------|---|--------|--------|-----------|--------------|------------|----------------|----------------|----------------|----------------|
| Rated voltage $V_R$  | 10 ... 500 V DC   |           |   |        |        |           |              |            |                |                |                |                |
| Operating temperature range                                | $V_R \leq 250$ V DC: $-40$ °C ... $+105$ °C<br>$V_R \geq 315$ V DC: $-25$ °C ... $+105$ °C  |           |   |        |        |           |              |            |                |                |                |                |
| Rated capacitance $C_R$<br>(20 °C, 120 Hz)                 | 47 ... 56000 $\mu$ F  |           |   |        |        |           |              |            |                |                |                |                |
| Capacitance tolerance                                      | $\pm 20\%$ $\triangleq$ M   |           |   |        |        |           |              |            |                |                |                |                |
| Load life<br>(105 °C, $V_R$ , $I_{AC,R}$ )                 | 2000 h  |           | Requirements:<br>$\Delta C/C \leq \pm 20\%$ of initial value<br>$\tan \delta \leq 2$ times initial specified limit<br>$I_{leak} \leq$ initial specified limit |        |        |           |              |            |                |                |                |                |
| Leakage current $I_{leak}$<br>(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<br>(max.)<br>(20 °C, 120 Hz)            | $V_R$ (V DC)  | 10        | 16  | 25     | 35     | 50        | 63 ...<br>80 | 100        | 160 ...<br>200 | 250 ...<br>400 | 450 ... 500    |                |
|  | $\tan \delta$   | 0.45      | 0.35  | 0.30   | 0.20   | 0.20      | 0.15         | 0.15       | 0.12           | 0.15           | 0.20           |                |
| Low temperature stability<br>(impedance ratio)<br>(120 Hz) | $V_R$ (V DC)  | 10 ... 16 |   | 25     | 35     | 50 ... 63 |              | 80 ... 100 |                | 160 ...<br>200 | 250 ...<br>400 | 450 ...<br>500 |
|  | $\frac{Z(-25 \text{ °C})}{Z(+20 \text{ °C})}$   | 4         |   | 3      | 3      | 2         |              | 2          |                | 3              | 4              | 8              |
|  | $\frac{Z(-40 \text{ °C})}{Z(+20 \text{ °C})}$   | 15        |   | 10     | 8      | 6         |              | 5          |                | 6              | –              | –              |
| Shelf life   | After storage for 1000 h at 105 °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<br>for rated ripple<br>current        |   | 50 Hz     |   | 120 Hz |        | 1 kHz     |              | 10 kHz     |                | 20 kHz         |                |                |
|  | $\leq 50$ V   | 0.95      |   | 1.00   |        | 1.10      |              | 1.15       |                | 1.15           |                |                |
|  | 63 ... 100 V  | 0.95      |   | 1.00   |        | 1.16      |              | 1.30       |                | 1.33           |                |                |
|  | $> 100$ V   | 0.90      |   | 1.00   |        | 1.20      |              | 1.50       |                | 1.55           |                |                |
| Temperatur multiplier<br>for rated ripple<br>current       | +40 °C  | +55 °C    |   |        | +70 °C |           |              | +85 °C     |                |                | +105 °C        |                |
|  | 2.7   | 2.5       |   |        | 2.1    |           |              | 1.7        |                |                | 1.0            |                |

Dimensional drawing



\* = Shorter terminal ( $4.0 \pm 0.5$ ) is also available upon request.

**Overview of available types B41252**

| $V_R$<br>(V DC) | 10                              | 16                              | 25                              | 35                              |
|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                 | Case dimensions d × l (mm)      |                                 |                                 |                                 |
| $C_R$ (μF)      |                                 |                                 |                                 |                                 |
| 3300            |                                 |                                 |                                 | 22 × 25                         |
| 3900            |                                 |                                 |                                 | 22 × 30                         |
| 4700            |                                 |                                 | 22 × 25                         | 22 × 35<br>25.4 × 25            |
| 5600            |                                 |                                 | 22 × 30                         | 22 × 35<br>25.4 × 30<br>30 × 25 |
| 6800            |                                 |                                 | 22 × 30                         | 22 × 40<br>25.4 × 35<br>30 × 30 |
| 8200            |                                 | 22 × 25                         | 22 × 35<br>25.4 × 30            | 22 × 50<br>25.4 × 40<br>30 × 30 |
| 10000           | 22 × 25                         | 22 × 30<br>25.4 × 25            | 22 × 40<br>25.4 × 35            | 25.4 × 45<br>30 × 35            |
| 12000           | 22 × 30                         | 22 × 35<br>25.4 × 30<br>30 × 25 | 22 × 45<br>25.4 × 40<br>30 × 30 | 25.4 × 50<br>30 × 40<br>35 × 30 |
| 15000           | 22 × 35<br>25.4 × 25            | 22 × 40<br>25.4 × 35<br>30 × 30 | 25.4 × 45<br>30 × 35<br>35 × 30 | 30 × 45<br>35 × 35              |
| 18000           | 22 × 35<br>25.4 × 30            | 22 × 45<br>25.4 × 40<br>30 × 30 | 25.4 × 50<br>30 × 40<br>35 × 35 | 35 × 40                         |
| 22000           | 22 × 40<br>25.4 × 35<br>30 × 25 | 25.4 × 45<br>30 × 35            | 30 × 45<br>35 × 35              | 35 × 45                         |
| 27000           | 22 × 50<br>25.4 × 40<br>30 × 30 | 25.4 × 50<br>30 × 40<br>35 × 30 | 35 × 45                         |                                 |
| 33000           | 25.4 × 45<br>30 × 35            | 30 × 45<br>35 × 35              |                                 |                                 |
| 39000           | 25.4 × 50<br>30 × 40<br>35 × 30 | 30 × 50<br>35 × 40              |                                 |                                 |
| 47000           | 30 × 45<br>35 × 35              | 35 × 45                         |                                 |                                 |
| 56000           | 35 × 45                         |                                 |                                 |                                 |

**Overview of available types B41252**

| $V_R$<br>(V DC)  | 50                                | 63                              | 80                              | 100                             |
|------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                  | Case dimensions $d \times l$ (mm) |                                 |                                 |                                 |
| $C_R$ ( $\mu$ F) |                                   |                                 |                                 |                                 |
| 820              |                                   |                                 | 22 × 25                         | 22 × 30<br>25.4 × 25            |
| 1000             |                                   |                                 | 22 × 30<br>25.4 × 25            | 22 × 35<br>25.4 × 30            |
| 1200             |                                   | 22 × 25                         | 22 × 30<br>25.4 × 25            | 22 × 40<br>25.4 × 35<br>30 × 25 |
| 1500             |                                   | 22 × 30<br>25.4 × 25            | 22 × 35<br>25.4 × 30            | 22 × 45<br>25.4 × 40<br>30 × 30 |
| 1800             |                                   | 22 × 30<br>25.4 × 25            | 22 × 40<br>25.4 × 35<br>30 × 25 | 25.4 × 45<br>30 × 35            |
| 2200             |                                   | 22 × 35<br>25.4 × 30            | 22 × 45<br>25.4 × 35<br>30 × 30 | 25.4 × 50<br>30 × 40<br>35 × 30 |
| 2700             | 22 × 30                           | 22 × 40<br>25.4 × 30<br>30 × 25 | 25.4 × 45<br>30 × 35            | 30 × 45<br>35 × 35              |
| 3300             | 22 × 35                           | 22 × 50<br>25.4 × 40<br>30 × 30 | 25.4 × 50<br>30 × 40<br>35 × 30 | 30 × 50<br>35 × 40              |
| 3900             | 22 × 40<br>25.4 × 35<br>30 × 25   | 25.4 × 45<br>30 × 35            | 30 × 45<br>35 × 35              | 35 × 45                         |
| 4700             | 22 × 45<br>25.4 × 40<br>30 × 30   | 25.4 × 50<br>30 × 40<br>35 × 30 | 30 × 50<br>35 × 40              | 35 × 50                         |
| 5600             | 22 × 50<br>25.4 × 40<br>30 × 35   | 30 × 45<br>35 × 35              | 35 × 45                         |                                 |
| 6800             | 25.4 × 50<br>30 × 40<br>35 × 30   | 30 × 50<br>35 × 40              | 35 × 50                         |                                 |
| 8200             | 30 × 45<br>35 × 35                | 35 × 45                         |                                 |                                 |
| 10000            | 30 × 50<br>35 × 40                | 35 × 50                         |                                 |                                 |
| 12000            | 35 × 45                           |                                 |                                 |                                 |
| 15000            | 35 × 50                           |                                 |                                 |                                 |

**Overview of available types B43252**

| $V_R$<br>(V DC) | 160  | 200  | 250  | 315  |
|-----------------|--|--|--|--|
|                 | Case dimensions d × l (mm)                 |  |  |  |
| $C_R$ (μF)      |  |  |  |  |
| 82              |  |  |  | 22 × 20                                    |
| 100             |  |  |  | 22 × 25<br>25.4 × 20                       |
| 120             |  |  |  | 22 × 30<br>25.4 × 25<br>30 × 20            |
| 150             |  | 22 × 20                                    | 22 × 25<br>25.4 × 20                       | 22 × 35<br>25.4 × 30<br>30 × 20            |
| 180             | 22 × 20                                    | 22 × 20                                    | 22 × 25<br>25.4 × 20<br>30 × 20            | 22 × 40<br>25.4 × 35<br>30 × 25<br>35 × 20 |
| 220             | 22 × 20                                    | 22 × 25<br>25.4 × 20                       | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 45<br>25.4 × 35<br>30 × 30<br>35 × 20 |
| 270             | 22 × 25<br>25.4 × 20                       | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 35<br>25.4 × 30<br>30 × 25<br>35 × 20 | 25.4 × 45<br>30 × 35<br>35 × 25            |
| 330             | 22 × 25<br>25.4 × 25<br>30 × 20            | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 40<br>25.4 × 30<br>30 × 25<br>35 × 20 | 25.4 × 50<br>30 × 40<br>35 × 30            |
| 390             | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 35<br>25.4 × 30<br>30 × 25<br>35 × 20 | 22 × 45<br>25.4 × 40<br>30 × 30<br>35 × 25 | 30 × 45<br>35 × 35                         |
| 470             | 22 × 35<br>25.4 × 25<br>30 × 25<br>35 × 20 | 22 × 40<br>25.4 × 35<br>30 × 25<br>35 × 25 | 22 × 50<br>25.4 × 40<br>30 × 30<br>35 × 25 | 30 × 50<br>35 × 40                         |
| 560             | 22 × 40<br>25.4 × 30<br>30 × 25<br>35 × 25 | 22 × 45<br>25.4 × 40<br>30 × 30<br>35 × 25 | 25.4 × 50<br>30 × 35<br>35 × 30            | 35 × 40                                    |
| 680             | 22 × 45<br>25.4 × 35<br>30 × 25<br>35 × 25 | 22 × 50<br>25.4 × 45<br>30 × 30<br>35 × 25 | 30 × 45<br>35 × 35                         | 35 × 50                                    |

**Overview of available types B43252**

| $V_R$<br>(V DC)  | 160  | 200                             | 250     | 315 |
|------------------|--|---------------------------------|---------|-----|
|                  | Case dimensions $d \times l$ (mm)          |                                 |         |     |
| $C_R$ ( $\mu$ F) |  |                                 |         |     |
| 820              | 22 × 50<br>25.4 × 40<br>30 × 30<br>35 × 25 | 25.4 × 50<br>30 × 35<br>35 × 30 | 35 × 40 |     |
| 1000             | 25.4 × 45<br>30 × 35<br>35 × 30            | 30 × 45<br>35 × 35              | 35 × 45 |     |
| 1200             | 25.4 × 50<br>30 × 40<br>35 × 30            | 30 × 50<br>35 × 35              | 35 × 50 |     |
| 1500             | 35 × 40                                    | 35 × 45                         |         |     |



**Overview of available types B43252**

| $V_R$<br>(V DC)  | 350  | 400  | 450  | 500  |
|------------------|--|--|--|--|
|                  | Case dimensions $d \times l$ (mm)          |  |  |  |
| $C_R$ ( $\mu$ F) |  |  |  |  |
| 47               |  |  | 22 × 20                                    | 22 × 25<br>25.4 × 20                       |
| 56               |  | 22 × 20                                    | 22 × 25<br>25.4 × 20                       | 22 × 30<br>25.4 × 30<br>30 × 20            |
| 68               | 22 × 20                                    | 22 × 25<br>25.4 × 20                       | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 40<br>25.4 × 35<br>30 × 25<br>35 × 20 |
| 82               | 22 × 25<br>25.4 × 20                       | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 35<br>25.4 × 30<br>30 × 20            | 22 × 45<br>25.4 × 40<br>30 × 30<br>35 × 25 |
| 100              | 22 × 25<br>25.4 × 25<br>30 × 20            | 22 × 35<br>25.4 × 30<br>30 × 20            | 22 × 40<br>25.4 × 30<br>30 × 25<br>35 × 20 | 22 × 50<br>25.4 × 45<br>30 × 35<br>35 × 30 |
| 120              | 22 × 30<br>25.4 × 25<br>30 × 20            | 22 × 40<br>25.4 × 30<br>30 × 25<br>35 × 20 | 22 × 45<br>25.4 × 35<br>30 × 30<br>35 × 25 | 25.4 × 50<br>30 × 40<br>35 × 30            |
| 150              | 22 × 40<br>25.4 × 30<br>30 × 25<br>35 × 20 | 22 × 45<br>25.4 × 35<br>30 × 30<br>35 × 20 | 22 × 50<br>25.4 × 40<br>30 × 30<br>35 × 25 | 30 × 45<br>35 × 35                         |
| 180              | 22 × 45<br>25.4 × 35<br>30 × 30<br>35 × 20 | 22 × 50<br>25.4 × 40<br>30 × 30<br>35 × 25 | 25.4 × 45<br>30 × 35<br>35 × 30            | 30 × 50<br>35 × 40                         |
| 220              | 22 × 50<br>25.4 × 40<br>30 × 30<br>35 × 25 | 25.4 × 45<br>30 × 35<br>35 × 30            | 25.4 × 50<br>30 × 40<br>35 × 30            | 35 × 45                                    |
| 270              | 25.4 × 45<br>30 × 35<br>35 × 30            | 25.4 × 50<br>30 × 40<br>35 × 30            | 30 × 45<br>35 × 35                         | 35 × 50                                    |
| 330              | 30 × 40<br>35 × 35                         | 30 × 45<br>35 × 35                         | 30 × 50<br>35 × 40                         |  |
| 390              | 30 × 45<br>35 × 40                         | 30 × 50<br>35 × 40                         | 35 × 45                                    |  |
| 470              | 35 × 45                                    | 35 × 45                                    | 35 × 50                                    |  |
| 560              | 35 × 50                                    | 35 × 50                                    |  |  |

**Technical data and ordering codes B41252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C<br>$\mu\text{F}$ | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|---|--|-------------------------------------|-----------------|
| 10    | 10000                                     | 22 × 25                                  | 2.17                                | B41252A3109M000 |
|       | 12000                                     | 22 × 30                                  | 2.48                                | B41252A3129M000 |
|       | 15000                                     | 22 × 35                                  | 2.83                                | B41252A3159M000 |
|       | 15000                                     | 25.4 × 25                                | 2.75                                | B41252B3159M000 |
|       | 18000                                     | 22 × 35                                  | 3.00                                | B41252A3189M000 |
|       | 18000                                     | 25.4 × 30                                | 3.11                                | B41252B3189M000 |
|       | 22000                                     | 22 × 40                                  | 3.35                                | B41252A3229M000 |
|       | 22000                                     | 25.4 × 35                                | 3.48                                | B41252B3229M000 |
|       | 22000                                     | 30 × 25                                  | 3.38                                | B41252C3229M000 |
|       | 27000                                     | 22 × 50                                  | 3.88                                | B41252A3279M000 |
|       | 27000                                     | 25.4 × 40                                | 3.87                                | B41252B3279M000 |
|       | 27000                                     | 30 × 30                                  | 3.79                                | B41252C3279M000 |
|       | 33000                                     | 25.4 × 45                                | 4.26                                | B41252A3339M000 |
|       | 33000                                     | 30 × 35                                  | 4.20                                | B41252B3339M000 |
|       | 39000                                     | 25.4 × 50                                | 4.60                                | B41252A3399M000 |
|       | 39000                                     | 30 × 40                                  | 4.57                                | B41252B3399M000 |
|       | 39000                                     | 35 × 30                                  | 4.46                                | B41252C3399M000 |
|       | 47000                                     | 30 × 45                                  | 4.95                                | B41252A3479M000 |
|       | 47000                                     | 35 × 35                                  | 4.87                                | B41252B3479M000 |
|       | 56000                                     | 35 × 45                                  | 5.49                                | B41252A3569M000 |
| 16    | 8200                                      | 22 × 25                                  | 2.14                                | B41252A4828M000 |
|       | 10000                                     | 22 × 30                                  | 2.48                                | B41252A4109M000 |
|       | 10000                                     | 25.4 × 25                                | 2.56                                | B41252B4109M000 |
|       | 12000                                     | 22 × 35                                  | 2.80                                | B41252A4129M000 |
|       | 12000                                     | 25.4 × 30                                | 2.90                                | B41252B4129M000 |
|       | 12000                                     | 30 × 25                                  | 2.97                                | B41252C4129M000 |
|       | 15000                                     | 22 × 40                                  | 3.17                                | B41252A4159M000 |
|       | 15000                                     | 25.4 × 35                                | 3.29                                | B41252B4159M000 |
|       | 15000                                     | 30 × 30                                  | 3.38                                | B41252C4159M000 |
|       | 18000                                     | 22 × 45                                  | 3.50                                | B41252A4189M000 |
|       | 18000                                     | 25.4 × 40                                | 3.65                                | B41252B4189M000 |
|       | 18000                                     | 30 × 30                                  | 3.57                                | B41252C4189M000 |
|       | 22000                                     | 25.4 × 45                                | 4.03                                | B41252A4229M000 |
|       | 22000                                     | 30 × 35                                  | 3.98                                | B41252B4229M000 |
|       | 27000                                     | 25.4 × 50                                | 4.42                                | B41252A4279M000 |
|       | 27000                                     | 30 × 40                                  | 4.39                                | B41252B4279M000 |
|       | 27000                                     | 35 × 30                                  | 4.29                                | B41252C4279M000 |
|       | 33000                                     | 30 × 45                                  | 4.79                                | B41252A4339M000 |
|       | 33000                                     | 35 × 35                                  | 4.71                                | B41252B4339M000 |
|       | 39000                                     | 30 × 50                                  | 5.16                                | B41252A4399M000 |
|       | 39000                                     | 35 × 40                                  | 5.10                                | B41252B4399M000 |
|       | 47000                                     | 35 × 45                                  | 5.50                                | B41252A4479M000 |

**Technical data and ordering codes B41252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C<br>$\mu\text{F}$ | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|---|--|-------------------------------------|-----------------|
| 25    | 4700                                      | 22 × 25                                  | 1.73                                | B41252A5478M000 |
|       | 5600                                      | 22 × 30                                  | 1.98                                | B41252A5568M000 |
|       | 6800                                      | 22 × 30                                  | 2.14                                | B41252A5688M000 |
|       | 8200                                      | 22 × 35                                  | 2.42                                | B41252A5828M000 |
|       | 8200                                      | 25.4 × 30                                | 2.50                                | B41252B5828M000 |
|       | 10000                                     | 22 × 40                                  | 2.77                                | B41252A5109M000 |
|       | 10000                                     | 25.4 × 35                                | 2.88                                | B41252B5109M000 |
|       | 12000                                     | 22 × 45                                  | 3.09                                | B41252A5129M000 |
|       | 12000                                     | 25.4 × 40                                | 3.22                                | B41252B5129M000 |
|       | 12000                                     | 30 × 30                                  | 3.15                                | B41252C5129M000 |
|       | 15000                                     | 25.4 × 45                                | 3.62                                | B41252A5159M000 |
|       | 15000                                     | 30 × 35                                  | 3.57                                | B41252B5159M000 |
|       | 15000                                     | 35 × 30                                  | 3.65                                | B41252C5159M000 |
|       | 18000                                     | 25.4 × 50                                | 3.98                                | B41252A5189M000 |
|       | 18000                                     | 30 × 40                                  | 3.95                                | B41252B5189M000 |
|       | 18000                                     | 35 × 35                                  | 4.06                                | B41252C5189M000 |
|       | 22000                                     | 30 × 45                                  | 4.36                                | B41252A5229M000 |
|       | 22000                                     | 35 × 35                                  | 4.28                                | B41252B5229M000 |
| 27000 | 35 × 45                                   | 4.92                                     | B41252A5279M000                     |                 |
| 35    | 3300                                      | 22 × 25                                  | 1.26                                | B41252A7338M000 |
|       | 3900                                      | 22 × 30                                  | 1.88                                | B41252B7398M000 |
|       | 4700                                      | 22 × 35                                  | 2.14                                | B41252A7478M000 |
|       | 4700                                      | 25.4 × 25                                | 2.09                                | B41252B7478M000 |
|       | 5600                                      | 22 × 35                                  | 2.29                                | B41252A7568M000 |
|       | 5600                                      | 25.4 × 30                                | 2.37                                | B41252B7568M000 |
|       | 5600                                      | 30 × 25                                  | 2.43                                | B41252C7568M000 |
|       | 6800                                      | 22 × 40                                  | 2.61                                | B41252A7688M000 |
|       | 6800                                      | 25.4 × 35                                | 2.71                                | B41252B7688M000 |
|       | 6800                                      | 30 × 30                                  | 2.79                                | B41252C7688M000 |
|       | 8200                                      | 22 × 50                                  | 3.02                                | B41252A7828M000 |
|       | 8200                                      | 25.4 × 40                                | 3.02                                | B41252B7828M000 |
|       | 8200                                      | 30 × 30                                  | 2.95                                | B41252C7828M000 |
|       | 10000                                     | 25.4 × 45                                | 3.43                                | B41252A7109M000 |
|       | 10000                                     | 30 × 35                                  | 3.38                                | B41252B7109M000 |
|       | 12000                                     | 25.4 × 50                                | 3.78                                | B41252A7129M000 |
|       | 12000                                     | 30 × 40                                  | 3.75                                | B41252B7129M000 |
|       | 12000                                     | 35 × 30                                  | 3.67                                | B41252C7129M000 |
|       | 15000                                     | 30 × 45                                  | 4.19                                | B41252A7159M000 |
|       | 15000                                     | 35 × 35                                  | 4.12                                | B41252B7159M000 |
|       | 18000                                     | 35 × 40                                  | 4.52                                | B41252A7189M000 |
|       | 22000                                     | 35 × 45                                  | 4.95                                | B41252A7229M000 |

**Technical data and ordering codes B41252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C<br>$\mu\text{F}$ | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|---|--|-------------------------------------|-----------------|
| 50    | 2700                                      | 22 × 30                                  | 1.94                                | B41252A6278M000 |
|       | 3300                                      | 22 × 35                                  | 2.20                                | B41252A6338M000 |
|       | 3900                                      | 22 × 40                                  | 2.52                                | B41252A6398M000 |
|       | 3900                                      | 25.4 × 35                                | 2.62                                | B41252B6398M000 |
|       | 3900                                      | 30 × 25                                  | 2.54                                | B41252C6398M000 |
|       | 4700                                      | 22 × 45                                  | 2.81                                | B41252A6478M000 |
|       | 4700                                      | 25.4 × 40                                | 2.93                                | B41252B6478M000 |
|       | 4700                                      | 30 × 30                                  | 2.87                                | B41252C6478M000 |
|       | 5600                                      | 22 × 50                                  | 3.11                                | B41252A6568M000 |
|       | 5600                                      | 25.4 × 40                                | 3.11                                | B41252B6568M000 |
|       | 5600                                      | 30 × 35                                  | 3.21                                | B41252C6568M000 |
|       | 6800                                      | 25.4 × 50                                | 3.64                                | B41252A6688M000 |
|       | 6800                                      | 30 × 40                                  | 3.61                                | B41252B6688M000 |
|       | 6800                                      | 35 × 30                                  | 3.53                                | B41252C6688M000 |
|       | 8200                                      | 30 × 45                                  | 3.94                                | B41252A6828M000 |
|       | 8200                                      | 35 × 35                                  | 3.87                                | B41252B6828M000 |
|       | 10000                                     | 30 × 50                                  | 4.42                                | B41252A6109M000 |
|       | 10000                                     | 35 × 40                                  | 4.37                                | B41252B6109M000 |
| 12000 | 35 × 45                                   | 4.78                                     | B41252A6129M000                     |                 |
| 15000 | 35 × 50                                   | 5.24                                     | B41252A6159M000                     |                 |
| 63    | 1200                                      | 22 × 25                                  | 1.37                                | B41252A8128M000 |
|       | 1500                                      | 22 × 30                                  | 1.50                                | B41252A8158M000 |
|       | 1500                                      | 25.4 × 25                                | 1.54                                | B41252B8158M000 |
|       | 1800                                      | 22 × 30                                  | 1.64                                | B41252A8188M000 |
|       | 1800                                      | 25.4 × 25                                | 1.69                                | B41252B8188M000 |
|       | 2200                                      | 22 × 35                                  | 1.86                                | B41252A8228M000 |
|       | 2200                                      | 25.4 × 30                                | 1.92                                | B41252B8228M000 |
|       | 2700                                      | 22 × 40                                  | 2.17                                | B41252A8278M000 |
|       | 2700                                      | 25.4 × 30                                | 2.13                                | B41252B8278M000 |
|       | 2700                                      | 30 × 25                                  | 2.18                                | B41252C8278M000 |
|       | 3300                                      | 22 × 50                                  | 2.53                                | B41252A8338M000 |
|       | 3300                                      | 25.4 × 40                                | 2.53                                | B41252B8338M000 |
|       | 3300                                      | 30 × 30                                  | 2.48                                | B41252C8338M000 |
|       | 3900                                      | 25.4 × 45                                | 2.88                                | B41252A8398M000 |
|       | 3900                                      | 30 × 35                                  | 2.84                                | B41252B8398M000 |
|       | 4700                                      | 25.4 × 50                                | 3.20                                | B41252A8478M000 |
|       | 4700                                      | 30 × 40                                  | 3.17                                | B41252B8478M000 |
|       | 4700                                      | 35 × 30                                  | 3.10                                | B41252C8478M000 |

**Technical data and ordering codes B41252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C<br>$\mu\text{F}$ | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|---|--|-------------------------------------|-----------------|
| 63    | 5600                                      | 30 × 45                                  | 3.51                                | B41252A8568M000 |
|       | 5600                                      | 35 × 35                                  | 3.46                                | B41252B8568M000 |
|       | 6800                                      | 30 × 50                                  | 3.92                                | B41252A8688M000 |
|       | 6800                                      | 35 × 40                                  | 3.88                                | B41252B8688M000 |
|       | 8200                                      | 35 × 45                                  | 4.22                                | B41252A8828M000 |
|       | 10000                                     | 35 × 50                                  | 4.74                                | B41252A8109M000 |
| 80    | 820                                       | 22 × 25                                  | 1.37                                | B41252A0827M000 |
|       | 1000                                      | 22 × 30                                  | 1.62                                | B41252A0108M000 |
|       | 1000                                      | 25.4 × 25                                | 1.67                                | B41252B0108M000 |
|       | 1200                                      | 22 × 30                                  | 1.67                                | B41252A0128M000 |
|       | 1200                                      | 25.4 × 25                                | 1.72                                | B41252B0128M000 |
|       | 1500                                      | 22 × 35                                  | 1.98                                | B41252A0158M000 |
|       | 1500                                      | 25.4 × 30                                | 2.05                                | B41252B0158M000 |
|       | 1800                                      | 22 × 40                                  | 2.28                                | B41252A0188M000 |
|       | 1800                                      | 25.4 × 35                                | 2.37                                | B41252B0188M000 |
|       | 1800                                      | 30 × 25                                  | 2.30                                | B41252C0188M000 |
|       | 2200                                      | 22 × 45                                  | 2.51                                | B41252A0228M000 |
|       | 2200                                      | 25.4 × 35                                | 2.49                                | B41252B0228M000 |
|       | 2200                                      | 30 × 30                                  | 2.56                                | B41252C0228M000 |
|       | 2700                                      | 25.4 × 45                                | 3.03                                | B41252A0278M000 |
|       | 2700                                      | 30 × 35                                  | 2.99                                | B41252B0278M000 |
|       | 3300                                      | 25.4 × 50                                | 3.33                                | B41252A0338M000 |
|       | 3300                                      | 30 × 40                                  | 3.30                                | B41252B0338M000 |
|       | 3300                                      | 35 × 30                                  | 3.23                                | B41252C0338M000 |
|       | 3900                                      | 30 × 45                                  | 3.75                                | B41252A0398M000 |
|       | 3900                                      | 35 × 35                                  | 3.69                                | B41252B0398M000 |
|       | 4700                                      | 30 × 50                                  | 4.10                                | B41252A0478M000 |
|       | 4700                                      | 35 × 40                                  | 4.06                                | B41252B0478M000 |
| 5600  | 35 × 45                                   | 4.44                                     | B41252A0568M000                     |                 |
| 6800  | 35 × 50                                   | 4.90                                     | B41252A0688M000                     |                 |
| 100   | 820                                       | 22 × 30                                  | 1.46                                | B41252A9827M000 |
|       | 820                                       | 25.4 × 25                                | 1.51                                | B41252B9827M000 |
|       | 1000                                      | 22 × 35                                  | 1.71                                | B41252A9108M000 |
|       | 1000                                      | 25.4 × 30                                | 1.77                                | B41252B9108M000 |
|       | 1200                                      | 22 × 40                                  | 1.86                                | B41252A9128M000 |
|       | 1200                                      | 25.4 × 35                                | 1.94                                | B41252B9128M000 |
|       | 1200                                      | 30 × 25                                  | 1.88                                | B41252C9128M000 |
|       | 1500                                      | 22 × 45                                  | 2.18                                | B41252A9158M000 |
|       | 1500                                      | 25.4 × 40                                | 2.28                                | B41252B9158M000 |
|       | 1500                                      | 30 × 30                                  | 2.23                                | B41252C9158M000 |
|       | 1800                                      | 25.4 × 45                                | 2.61                                | B41252A9188M000 |
|       | 1800                                      | 30 × 35                                  | 2.57                                | B41252B9188M000 |

**Technical data and ordering codes B41252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|--------------------------|--|-------------------------------------|-----------------|
| 100   | 2200                     | 25.4 × 50                                | 2.85                                | B41252A9228M000 |
|       | 2200                     | 30 × 40                                  | 2.83                                | B41252B9228M000 |
|       | 2200                     | 35 × 30                                  | 2.76                                | B41252C9228M000 |
|       | 2700                     | 30 × 45                                  | 3.27                                | B41252A9278M000 |
|       | 2700                     | 35 × 35                                  | 3.22                                | B41252B9278M000 |
|       | 3300                     | 30 × 50                                  | 3.59                                | B41252A9338M000 |
|       | 3300                     | 35 × 40                                  | 3.55                                | B41252B9338M000 |
|       | 3900                     | 35 × 45                                  | 4.03                                | B41252A9398M000 |
|       | 4700                     | 35 × 50                                  | 4.40                                | B41252A9478M000 |

**Technical data and ordering codes B43252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|--------------------------|--|-------------------------------------|-----------------|
| 160   | 180                      | 22 × 20                                  | 0.69                                | B43252A1187M000 |
|       | 220                      | 22 × 20                                  | 0.76                                | B43252A1227M000 |
|       | 270                      | 22 × 25                                  | 0.91                                | B43252A1277M000 |
|       | 270                      | 25.4 × 20                                | 0.93                                | B43252B1277M000 |
|       | 330                      | 22 × 25                                  | 1.01                                | B43252A1337M000 |
|       | 330                      | 25.4 × 25                                | 1.10                                | B43252B1337M000 |
|       | 330                      | 30 × 20                                  | 1.13                                | B43252C1337M000 |
|       | 390                      | 22 × 30                                  | 1.17                                | B43252A1397M000 |
|       | 390                      | 25.4 × 25                                | 1.20                                | B43252B1397M000 |
|       | 390                      | 30 × 20                                  | 1.23                                | B43252D1397M000 |
|       | 470                      | 22 × 35                                  | 1.36                                | B43252A1477M000 |
|       | 470                      | 25.4 × 25                                | 1.32                                | B43252B1477M000 |
|       | 470                      | 30 × 25                                  | 1.44                                | B43252C1477M000 |
|       | 470                      | 35 × 20                                  | 1.47                                | B43252D1477M000 |
|       | 560                      | 22 × 40                                  | 1.56                                | B43252A1567M000 |
|       | 560                      | 25.4 × 30                                | 1.53                                | B43252B1567M000 |
|       | 560                      | 30 × 25                                  | 1.57                                | B43252C1567M000 |
|       | 560                      | 35 × 25                                  | 1.70                                | B43252D1567M000 |
|       | 680                      | 22 × 45                                  | 1.80                                | B43252A1687M000 |
|       | 680                      | 25.4 × 35                                | 1.79                                | B43252B1687M000 |
|       | 680                      | 30 × 25                                  | 1.73                                | B43252C1687M000 |
|       | 680                      | 35 × 25                                  | 1.88                                | B43252D1687M000 |
|       | 820                      | 22 × 50                                  | 2.06                                | B43252A1827M000 |
|       | 820                      | 25.4 × 40                                | 2.06                                | B43252B1827M000 |
|       | 820                      | 30 × 30                                  | 2.02                                | B43252C1827M000 |
|       | 820                      | 35 × 25                                  | 2.06                                | B43252D1827M000 |
|       | 1000                     | 25.4 × 45                                | 2.38                                | B43252A1108M000 |
| 1000  | 30 × 35                  | 2.35                                     | B43252B1108M000                     |                 |
| 1000  | 35 × 30                  | 2.41                                     | B43252C1108M000                     |                 |
| 1200  | 25.4 × 50                | 2.52                                     | B43252A1128M000                     |                 |
| 1200  | 30 × 40                  | 2.50                                     | B43252B1128M000                     |                 |
| 1200  | 35 × 30                  | 2.44                                     | B43252C1128M000                     |                 |
| 1500  | 35 × 40                  | 3.00                                     | B43252A1158M000                     |                 |
| 200   | 150                      | 22 × 20                                  | 0.63                                | B43252A2157M000 |
|       | 180                      | 22 × 20                                  | 0.69                                | B43252A2187M000 |
|       | 220                      | 22 × 25                                  | 0.82                                | B43252A2227M000 |
|       | 220                      | 25.4 × 20                                | 0.84                                | B43252B2227M000 |
|       | 270                      | 22 × 30                                  | 0.91                                | B43252A2277M000 |
|       | 270                      | 25.4 × 25                                | 1.00                                | B43252B2277M000 |
|       | 270                      | 30 × 20                                  | 1.02                                | B43252C2277M000 |
|       | 330                      | 22 × 30                                  | 1.07                                | B43252A2337M000 |
|       | 330                      | 25.4 × 25                                | 1.11                                | B43252D2337M000 |

**Technical data and ordering codes B43252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C<br>$\mu F$ | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|-------------------------------------|--|-------------------------------------|-----------------|
| 200   | 330                                 | 30 × 20                                  | 1.13                                | B43252B2337M000 |
|       | 390                                 | 22 × 35                                  | 1.24                                | B43252A2397M000 |
|       | 390                                 | 25.4 × 30                                | 1.28                                | B43252B2397M000 |
|       | 390                                 | 30 × 25                                  | 1.31                                | B43252C2397M000 |
|       | 390                                 | 35 × 20                                  | 1.34                                | B43252D2397M000 |
|       | 470                                 | 22 × 40                                  | 1.43                                | B43252A2477M000 |
|       | 470                                 | 25.4 × 35                                | 1.40                                | B43252D2477M000 |
|       | 470                                 | 30 × 25                                  | 1.44                                | B43252B2477M000 |
|       | 470                                 | 35 × 25                                  | 1.56                                | B43252C2477M000 |
|       | 560                                 | 22 × 45                                  | 1.63                                | B43252A2567M000 |
|       | 560                                 | 25.4 × 40                                | 1.62                                | B43252B2567M000 |
|       | 560                                 | 30 × 30                                  | 1.67                                | B43252C2567M000 |
|       | 560                                 | 35 × 25                                  | 1.70                                | B43252D2567M000 |
|       | 680                                 | 22 × 50                                  | 1.88                                | B43252A2687M000 |
|       | 680                                 | 25.4 × 45                                | 1.96                                | B43252D2687M000 |
|       | 680                                 | 30 × 30                                  | 1.84                                | B43252B2687M000 |
|       | 680                                 | 35 × 25                                  | 1.88                                | B43252C2687M000 |
|       | 820                                 | 25.4 × 50                                | 2.25                                | B43252A2827M000 |
|       | 820                                 | 30 × 35                                  | 2.13                                | B43252B2827M000 |
|       | 820                                 | 35 × 30                                  | 2.18                                | B43252C2827M000 |
|       | 1000                                | 30 × 45                                  | 2.57                                | B43252A2108M000 |
|       | 1000                                | 35 × 35                                  | 2.53                                | B43252B2108M000 |
|       | 1200                                | 30 × 50                                  | 2.72                                | B43252A2128M000 |
| 1200  | 35 × 35                             | 2.57                                     | B43252B2128M000                     |                 |
| 1500  | 35 × 45                             | 3.13                                     | B43252A2158M000                     |                 |
| 250   | 150                                 | 22 × 25                                  | 0.68                                | B43252E2157M000 |
|       | 150                                 | 25.4 × 20                                | 0.69                                | B43252F2157M000 |
|       | 180                                 | 22 × 25                                  | 0.74                                | B43252E2187M000 |
|       | 180                                 | 25.4 × 20                                | 0.76                                | B43252F2187M000 |
|       | 180                                 | 30 × 20                                  | 0.83                                | B43252G2187M000 |
|       | 220                                 | 22 × 30                                  | 0.88                                | B43252E2227M000 |
|       | 220                                 | 25.4 × 25                                | 0.90                                | B43252F2227M000 |
|       | 220                                 | 30 × 20                                  | 0.92                                | B43252G2227M000 |
|       | 270                                 | 22 × 35                                  | 1.03                                | B43252E2277M000 |
|       | 270                                 | 25.4 × 30                                | 1.06                                | B43252F2277M000 |
|       | 270                                 | 30 × 25                                  | 1.09                                | B43252G2277M000 |
|       | 270                                 | 35 × 20                                  | 1.11                                | B43252D2277M000 |
|       | 330                                 | 22 × 40                                  | 1.20                                | B43252E2337M000 |
|       | 330                                 | 25.4 × 30                                | 1.18                                | B43252F2337M000 |
|       | 330                                 | 30 × 25                                  | 1.21                                | B43252G2337M000 |
|       | 330                                 | 35 × 20                                  | 1.23                                | B43252C2337M000 |
|       | 390                                 | 22 × 45                                  | 1.36                                | B43252E2397M000 |



**Technical data and ordering codes B43252**

| V <sub>R</sub> | C <sub>R</sub><br>120 Hz<br>20 °C<br>μF | Case<br>dimensions<br>d × l<br>mm | I <sub>AC,R</sub><br>120 Hz<br>105 °C<br>A | Ordering code   |
|----------------|---|-----------------------------------|--|-----------------|
| 250            | 390                                     | 25.4 × 40                         | 1.42                                       | B43252F2397M000 |
|                | 390                                     | 30 × 30                           | 1.39                                       | B43252G2397M000 |
|                | 390                                     | 35 × 25                           | 1.42                                       | B43252H2397M000 |
|                | 470                                     | 22 × 50                           | 1.56                                       | B43252E2477M000 |
|                | 470                                     | 25.4 × 40                         | 1.56                                       | B43252F2477M000 |
|                | 470                                     | 30 × 30                           | 1.53                                       | B43252G2477M000 |
|                | 470                                     | 35 × 25                           | 1.56                                       | B43252H2477M000 |
|                | 560                                     | 25.4 × 50                         | 1.86                                       | B43252E2567M000 |
|                | 560                                     | 30 × 35                           | 1.76                                       | B43252F2567M000 |
|                | 560                                     | 35 × 30                           | 1.80                                       | B43252G2567M000 |
|                | 680                                     | 30 × 45                           | 2.12                                       | B43252E2687M000 |
|                | 680                                     | 35 × 35                           | 2.09                                       | B43252F2687M000 |
|                | 820                                     | 35 × 40                           | 2.40                                       | B43252E2827M000 |
|                | 1000                                    | 35 × 45                           | 2.76                                       | B43252E2108M000 |
|                | 1200                                    | 35 × 50                           | 2.91                                       | B43252E2128M000 |
| 315            | 82                                      | 22 × 20                           | 0.45                                       | B43252A0826M000 |
|                | 100                                     | 22 × 25                           | 0.53                                       | B43252A0107M000 |
|                | 100                                     | 25.4 × 20                         | 0.55                                       | B43252B0107M000 |
|                | 120                                     | 22 × 30                           | 0.62                                       | B43252A0127M000 |
|                | 120                                     | 25.4 × 25                         | 0.64                                       | B43252B0127M000 |
|                | 120                                     | 30 × 20                           | 0.65                                       | B43252C0127M000 |
|                | 150                                     | 22 × 35                           | 0.74                                       | B43252A0157M000 |
|                | 150                                     | 25.4 × 30                         | 0.76                                       | B43252B0157M000 |
|                | 150                                     | 30 × 20                           | 0.73                                       | B43252C0157M000 |
|                | 180                                     | 22 × 40                           | 0.85                                       | B43252A0187M000 |
|                | 180                                     | 25.4 × 35                         | 0.88                                       | B43252B0187M000 |
|                | 180                                     | 30 × 25                           | 0.86                                       | B43252C0187M000 |
|                | 180                                     | 35 × 20                           | 0.87                                       | B43252D0187M000 |
|                | 220                                     | 22 × 45                           | 0.98                                       | B43252A0227M000 |
|                | 220                                     | 25.4 × 35                         | 0.98                                       | B43252B0227M000 |
|                | 220                                     | 30 × 30                           | 1.00                                       | B43252C0227M000 |
|                | 220                                     | 35 × 20                           | 0.96                                       | B43252D0227M000 |
|                | 270                                     | 25.4 × 45                         | 1.19                                       | B43252A0277M000 |
|                | 270                                     | 30 × 35                           | 1.17                                       | B43252B0277M000 |
|                | 270                                     | 35 × 25                           | 1.14                                       | B43252C0277M000 |
|                | 330                                     | 25.4 × 50                         | 1.37                                       | B43252A0337M000 |
|                | 330                                     | 30 × 40                           | 1.36                                       | B43252B0337M000 |
|                | 330                                     | 35 × 30                           | 1.33                                       | B43252C0337M000 |

**Technical data and ordering codes B43252**

| $V_R$ | $C_R$   | Case dimensions | $I_{AC,R}$ | Ordering code   |
|-------|---------|-----------------|------------|-----------------|
|       | 120 Hz  | $d \times l$    | 120 Hz     |                 |
| V DC  | 20 °C   | mm              | 105 °C     |                 |
|       | $\mu F$ |                 | A          |                 |
| 315   | 390     | 30 × 45         | 1.54       | B43252A0397M000 |
|       | 390     | 35 × 35         | 1.52       | B43252B0397M000 |
|       | 470     | 30 × 50         | 1.76       | B43252A0477M000 |
|       | 470     | 35 × 40         | 1.74       | B43252B0477M000 |
|       | 560     | 35 × 40         | 1.90       | B43252A0567M000 |
|       | 680     | 35 × 50         | 2.27       | B43252A0687M000 |
| 350   | 68      | 22 × 20         | 0.41       | B43252A4686M000 |
|       | 82      | 22 × 25         | 0.48       | B43252A4826M000 |
|       | 82      | 25.4 × 20       | 0.49       | B43252B4826M000 |
|       | 100     | 22 × 25         | 0.53       | B43252A4107M000 |
|       | 100     | 25.4 × 25       | 0.59       | B43252B4107M000 |
|       | 100     | 30 × 20         | 0.60       | B43252C4107M000 |
|       | 120     | 22 × 30         | 0.62       | B43252A4127M000 |
|       | 120     | 25.4 × 25       | 0.64       | B43252B4127M000 |
|       | 120     | 30 × 20         | 0.65       | B43252C4127M000 |
|       | 150     | 22 × 40         | 0.78       | B43252A4157M000 |
|       | 150     | 25.4 × 30       | 0.76       | B43252B4157M000 |
|       | 150     | 30 × 25         | 0.78       | B43252C4157M000 |
|       | 150     | 35 × 20         | 0.80       | B43252D4157M000 |
|       | 180     | 22 × 45         | 0.89       | B43252A4187M000 |
|       | 180     | 25.4 × 35       | 0.88       | B43252B4187M000 |
|       | 180     | 30 × 30         | 0.91       | B43252C4187M000 |
|       | 180     | 35 × 20         | 0.87       | B43252D4187M000 |
|       | 220     | 22 × 50         | 1.03       | B43252A4227M000 |
|       | 220     | 25.4 × 40       | 1.03       | B43252B4227M000 |
|       | 220     | 30 × 30         | 1.00       | B43252C4227M000 |
|       | 220     | 35 × 25         | 1.03       | B43252D4227M000 |
|       | 270     | 25.4 × 45       | 1.19       | B43252A4277M000 |
|       | 270     | 30 × 35         | 1.17       | B43252B4277M000 |
|       | 270     | 35 × 30         | 1.20       | B43252C4277M000 |
|       | 330     | 30 × 40         | 1.36       | B43252A4337M000 |
|       | 330     | 35 × 35         | 1.40       | B43252B4337M000 |
|       | 390     | 30 × 45         | 1.54       | B43252A4397M000 |
|       | 390     | 35 × 40         | 1.59       | B43252B4397M000 |
|       | 470     | 35 × 45         | 1.82       | B43252A4477M000 |
|       | 560     | 35 × 50         | 2.06       | B43252A4567M000 |

**Technical data and ordering codes B43252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|--------------------------|--|-------------------------------------|-----------------|
| 400   | 56                       | 22 × 20                                  | 0.37                                | B43252A9566M000 |
|       | 68                       | 22 × 25                                  | 0.44                                | B43252A9686M000 |
|       | 68                       | 25.4 × 20                                | 0.45                                | B43252B9686M000 |
|       | 82                       | 22 × 30                                  | 0.51                                | B43252A9826M000 |
|       | 82                       | 25.4 × 25                                | 0.53                                | B43252B9826M000 |
|       | 82                       | 30 × 20                                  | 0.54                                | B43252C9826M000 |
|       | 100                      | 22 × 35                                  | 0.60                                | B43252A9107M000 |
|       | 100                      | 25.4 × 30                                | 0.62                                | B43252C9107M000 |
|       | 100                      | 30 × 20                                  | 0.60                                | B43252B9107M000 |
|       | 120                      | 22 × 40                                  | 0.69                                | B43252A9127M000 |
|       | 120                      | 25.4 × 30                                | 0.68                                | B43252B9127M000 |
|       | 120                      | 30 × 25                                  | 0.70                                | B43252C9127M000 |
|       | 120                      | 35 × 20                                  | 0.71                                | B43252D9127M000 |
|       | 150                      | 22 × 45                                  | 0.81                                | B43252A9157M000 |
|       | 150                      | 25.4 × 35                                | 0.81                                | B43252B9157M000 |
|       | 150                      | 30 × 30                                  | 0.83                                | B43252C9157M000 |
|       | 150                      | 35 × 20                                  | 0.80                                | B43252D9157M000 |
|       | 180                      | 22 × 50                                  | 0.93                                | B43252A9187M000 |
|       | 180                      | 25.4 × 40                                | 0.93                                | B43252B9187M000 |
|       | 180                      | 30 × 30                                  | 0.91                                | B43252C9187M000 |
|       | 180                      | 35 × 25                                  | 0.93                                | B43252D9187M000 |
|       | 220                      | 25.4 × 45                                | 1.07                                | B43252C9227M000 |
|       | 220                      | 30 × 35                                  | 1.06                                | B43252A9227M000 |
|       | 220                      | 35 × 30                                  | 1.08                                | B43252B9227M000 |
|       | 270                      | 25.4 × 50                                | 1.24                                | B43252A9277M000 |
|       | 270                      | 30 × 40                                  | 1.23                                | B43252B9277M000 |
|       | 270                      | 35 × 30                                  | 1.20                                | B43252C9277M000 |
|       | 330                      | 30 × 45                                  | 1.42                                | B43252A9337M000 |
| 330   | 35 × 35                  | 1.40                                     | B43252B9337M000                     |                 |
| 390   | 30 × 50                  | 1.61                                     | B43252A9397M000                     |                 |
| 390   | 35 × 40                  | 1.59                                     | B43252B9397M000                     |                 |
| 470   | 35 × 45                  | 1.82                                     | B43252A9477M000                     |                 |
| 560   | 35 × 50                  | 2.06                                     | B43252A9567M000                     |                 |
| 450   | 47                       | 22 × 20                                  | 0.34                                | B43252A5476M000 |
|       | 56                       | 22 × 25                                  | 0.40                                | B43252A5566M000 |
|       | 56                       | 25.4 × 20                                | 0.41                                | B43252B5566M000 |
|       | 68                       | 22 × 30                                  | 0.47                                | B43252A5686M000 |
|       | 68                       | 25.4 × 25                                | 0.48                                | B43252B5686M000 |
|       | 68                       | 30 × 20                                  | 0.49                                | B43252C5686M000 |
|       | 82                       | 22 × 35                                  | 0.54                                | B43252A5826M000 |
|       | 82                       | 25.4 × 30                                | 0.54                                | B43252B5826M000 |
|       | 82                       | 30 × 20                                  | 0.54                                | B43252C5826M000 |

**Technical data and ordering codes B43252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|--------------------------|--|-------------------------------------|-----------------|
| 450   | 100                      | 22 × 40                                  | 0.63                                | B43252A5107M000 |
|       | 100                      | 25.4 × 30                                | 0.62                                | B43252B5107M000 |
|       | 100                      | 30 × 25                                  | 0.64                                | B43252C5107M000 |
|       | 100                      | 35 × 20                                  | 0.65                                | B43252D5107M000 |
|       | 120                      | 22 × 45                                  | 0.73                                | B43252A5127M000 |
|       | 120                      | 25.4 × 35                                | 0.72                                | B43252B5127M000 |
|       | 120                      | 30 × 30                                  | 0.74                                | B43252C5127M000 |
|       | 120                      | 35 × 25                                  | 0.76                                | B43252D5127M000 |
|       | 150                      | 22 × 50                                  | 0.85                                | B43252A5157M000 |
|       | 150                      | 25.4 × 40                                | 0.85                                | B43252B5157M000 |
|       | 150                      | 30 × 30                                  | 0.83                                | B43252C5157M000 |
|       | 150                      | 35 × 25                                  | 0.85                                | B43252D5157M000 |
|       | 180                      | 25.4 × 45                                | 0.97                                | B43252A5187M000 |
|       | 180                      | 30 × 35                                  | 0.96                                | B43252B5187M000 |
|       | 180                      | 35 × 30                                  | 0.98                                | B43252C5187M000 |
|       | 220                      | 25.4 × 50                                | 1.12                                | B43252A5227M000 |
|       | 220                      | 30 × 40                                  | 1.11                                | B43252B5227M000 |
|       | 220                      | 35 × 30                                  | 1.08                                | B43252C5227M000 |
|       | 270                      | 30 × 45                                  | 1.28                                | B43252A5277M000 |
|       | 270                      | 35 × 35                                  | 1.26                                | B43252B5277M000 |
| 330   | 30 × 50                  | 1.48                                     | B43252A5337M000                     |                 |
| 330   | 35 × 40                  | 1.46                                     | B43252B5337M000                     |                 |
| 390   | 35 × 45                  | 1.66                                     | B43252A5397M000                     |                 |
| 470   | 35 × 50                  | 1.89                                     | B43252A5477M000                     |                 |
| 500   | 47                       | 22 × 25                                  | 0.25                                | B43252A6476M000 |
|       | 47                       | 25.4 × 20                                | 0.30                                | B43252B6476M000 |
|       | 56                       | 22 × 30                                  | 0.29                                | B43252A6566M000 |
|       | 56                       | 25.4 × 30                                | 0.30                                | B43252B6566M000 |
|       | 56                       | 30 × 20                                  | 0.36                                | B43252C6566M000 |
|       | 68                       | 22 × 40                                  | 0.34                                | B43252A6686M000 |
|       | 68                       | 25.4 × 35                                | 0.35                                | B43252B6686M000 |
|       | 68                       | 30 × 25                                  | 0.36                                | B43252C6686M000 |
|       | 68                       | 35 × 20                                  | 0.48                                | B43252D6686M000 |
|       | 82                       | 22 × 45                                  | 0.40                                | B43252A6826M000 |
|       | 82                       | 25.4 × 40                                | 0.41                                | B43252B6826M000 |
|       | 82                       | 30 × 30                                  | 0.48                                | B43252C6826M000 |
|       | 82                       | 35 × 25                                  | 0.48                                | B43252D6826M000 |
|       | 100                      | 22 × 50                                  | 0.47                                | B43252A6107M000 |
|       | 100                      | 25.4 × 45                                | 0.46                                | B43252B6107M000 |
|       | 100                      | 30 × 35                                  | 0.47                                | B43252C6107M000 |
|       | 100                      | 35 × 30                                  | 0.48                                | B43252D6107M000 |
| 120   | 25.4 × 50                | 0.53                                     | B43252A6127M000                     |                 |

**Technical data and ordering codes B43252**

| $V_R$ | $C_R$<br>120 Hz<br>20 °C | Case<br>dimensions<br>$d \times l$<br>mm | $I_{AC,R}$<br>120 Hz<br>105 °C<br>A | Ordering code   |
|-------|--------------------------|--|-------------------------------------|-----------------|
| 500   | 120                      | 30 × 40                                  | 0.55                                | B43252B6127M000 |
|       | 120                      | 35 × 30                                  | 0.56                                | B43252C6127M000 |
|       | 150                      | 30 × 45                                  | 0.61                                | B43252A6157M000 |
|       | 150                      | 35 × 35                                  | 0.62                                | B43252B6157M000 |
|       | 180                      | 30 × 50                                  | 0.70                                | B43252A6187M000 |
|       | 180                      | 35 × 40                                  | 0.78                                | B43252B6187M000 |
|       | 220                      | 35 × 45                                  | 0.80                                | B43252A6227M000 |
|       | 270                      | 35 × 50                                  | 0.93                                | B43252A6277M000 |

## Cautions and warnings

### General

Also see "Important notes" on page 24.

- 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  $\geq 8$  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.

## Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that in **individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
3. **The warnings, cautions and product-specific notes must be observed.**
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet ([www.epcos.com/material](http://www.epcos.com/material)). Should you have any more detailed questions, please contact our sales offices.
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.  
We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in case of individual agreements deviating from the foregoing for customer-specific products.
6. Unless otherwise agreed in individual contracts, **all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI)**.
7. The trade names EPCOS, BAOKE, Alu-X, CeraDiode, C5SSP, CTVS, D5SSP, MiniBlue, MKK, MLSC, MotorCap, PCC, PhaseCap, PhaseMod, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SIMID, SineFormer, SIOV, SIP5D, SIP5K, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at [www.epcos.com/trademarks](http://www.epcos.com/trademarks).