



# Aluminum Electrolytic Capacitors

## Snap-in capacitors

**Series/Type:**            **B43254**  
**Date:**                    April 1, 2014

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## Long-life grade capacitors

### 长寿命电容器

## Applications

### 应用

- Switch mode power supplies in industrial electronics  
工业电子产品中的开关电源

## Features

### 特点

- RoHS-compatible  
符合RoHS要求
- High ripple current capability  
耐高纹波电流能力
- Useful life of 3000h at 105 °C  
105 °C 3000h使用寿命

## Construction

### 结构

- Aluminum case, fully insulated  
铝质外壳，整体绝缘
- Minus pole marking on the insulating sleeve  
绝缘套管上标注负极
- Overload protection by safety vent on the base  
底部安全阀过载保护

**Snap-in capacitors 焊片式电容器**  
**Long life - 105°C 长寿命型 - 105°C**

**B43254**

**Specifications and characteristics in brief**

**规格性能参数一览表**

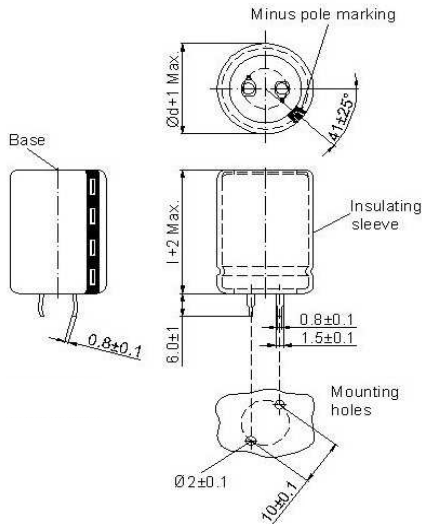
|                                                                                                       |                                                                                                              |                                                      |           |           |         |       |  |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------|-----------|---------|-------|--|
| Rated voltage V <sub>R</sub><br>额定电压V <sub>R</sub>                                                    | 160...450 V DC                                                                                               |                                                      |           |           |         |       |  |
| Surge voltage V <sub>S</sub><br>浪涌电压V <sub>S</sub>                                                    | 1.15 · V <sub>R</sub> (for V <sub>R</sub> ≤ 315V DC)<br>1.10 · V <sub>R</sub> (for V <sub>R</sub> > 315V DC) |                                                      |           |           |         |       |  |
| Operating temperature range<br>工作温度范围                                                                 | V <sub>R</sub> ≤ 250V DC: -40 °C...+105 °C<br>V <sub>R</sub> ≥ 300V DC: -25 °C...+105 °C                     |                                                      |           |           |         |       |  |
| Rated capacitance C <sub>R</sub><br>额定电容量C <sub>R</sub><br>(20 °C,120 Hz)                             | 47...2700 μF                                                                                                 |                                                      |           |           |         |       |  |
| Capacitance tolerance<br>电容量公差                                                                        | ±20% M                                                                                                       |                                                      |           |           |         |       |  |
| Dissipation factor(max.)<br>损耗正切角(最大值)<br>20°C,120Hz.                                                 | V <sub>R</sub> ( V DC)                                                                                       | 160...400                                            |           |           |         | 450   |  |
|                                                                                                       | tanδ                                                                                                         | 0.15                                                 |           |           |         | 0.20  |  |
| Leakage current I <sub>leak</sub><br>(20 °C,after 5 minutes)<br>漏电流 I <sub>leak</sub><br>(20 °C,5分钟后) | $I_{leak} \leq 3 \mu A \cdot \left( \frac{C_R}{\mu F} \cdot \frac{V_R}{V} \right)^{1/2}$                     |                                                      |           |           |         |       |  |
| Low temperature stability<br>低温稳定性<br>(max impedance ratio)<br>(最大阻抗比率)                               | V <sub>R</sub> ( V DC)                                                                                       | 160...250                                            | 300...315 | 350...400 | 450     | 120Hz |  |
|                                                                                                       | $\frac{Z (-25\text{ °C})}{Z (+20\text{ °C})}$                                                                | 4                                                    | 4         | 4         | 8       |       |  |
|                                                                                                       | $\frac{Z (-40\text{ °C})}{Z (+20\text{ °C})}$                                                                | 6                                                    | -         | -         | -       |       |  |
| Useful life<br>使用寿命<br>(105 °C,V <sub>R</sub> ,I <sub>AC,R</sub> )                                    | 3000 h                                                                                                       | Requirements 要求:                                     |           |           |         |       |  |
|                                                                                                       |                                                                                                              | $\Delta C/C \leq \pm 20\%$ of initial value 初始值的±20% |           |           |         |       |  |
|                                                                                                       |                                                                                                              | tanδ ≤ 2 times initial specified limit 2倍初始规定值       |           |           |         |       |  |
| Shelf life<br>储存寿命                                                                                    |                                                                                                              | I <sub>leak</sub> ≤ initial specified limit 初始规定值    |           |           |         |       |  |
|                                                                                                       |                                                                                                              |                                                      |           |           |         |       |  |
|                                                                                                       |                                                                                                              |                                                      |           |           |         |       |  |
| Frequency multiplier for rated ripple current<br>额定纹波电流频率系数                                           | 50 Hz                                                                                                        | 120 Hz                                               | 1 kHz     | 10 kHz    | 20 kHz  |       |  |
|                                                                                                       | 0.80                                                                                                         | 1.00                                                 | 1.20      | 1.50      | 1.55    |       |  |
| Temperature multiplier for rated ripple current<br>额定纹波电流温度系数                                         | +40 °C                                                                                                       | +55 °C                                               | +70 °C    | +85 °C    | +105 °C |       |  |
|                                                                                                       | 2.70                                                                                                         | 2.50                                                 | 2.10      | 1.70      | 1.00    |       |  |
| Sectional specification<br>分规范                                                                        | IEC 60384-4                                                                                                  |                                                      |           |           |         |       |  |

**Snap-in capacitors 焊片式电容器**  
**Long life - 105°C 长寿命型 - 105°C**

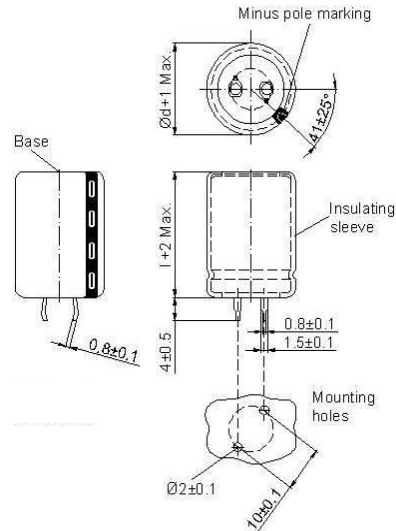
**B43254**

**Dimensional drawing**

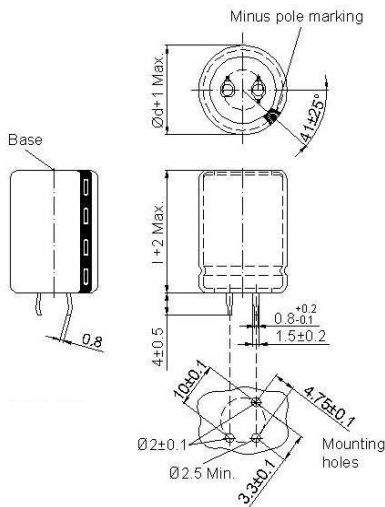
snap-in standard terminals ( $6.0 \pm 1$ ) mm  
 digit 15 of part number = 0



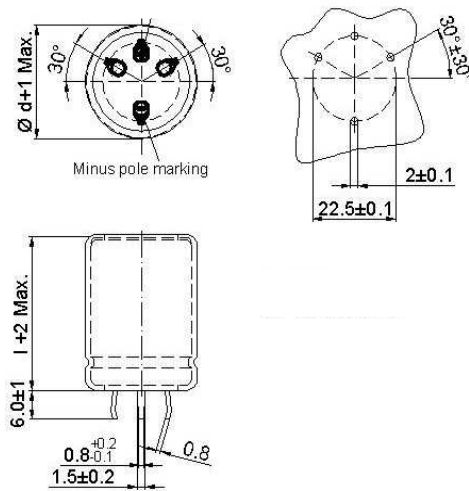
snap-in short terminals ( $4.0 \pm 0.5$ ) mm  
 digit 15 of part number = 7



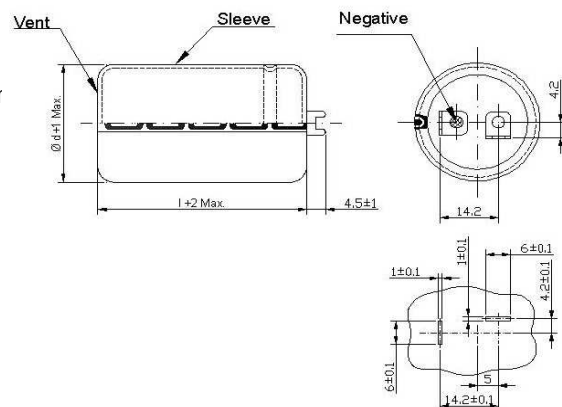
snap-in 3 terminals terminals ( $4.0 \pm 0.5$ ) mm  
 digit 15 of part number = 2



snap-in 4 terminal terminals ( $6.0 \pm 1$ ) mm  
 digit 15 of part number = 4



vibration-resistance terminals ( $4.5 \pm 1$ ) mm  
 digit 15 of part number = 8



**Technical dates and ordering codes**

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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   |
|----------------|----------------------------------------|-----------------------------------|--------------------------------------------|-----------------|
| 160            | 220                                    | 22.0 × 20                         | 0.76                                       | B43254A1227M0*# |
|                | 270                                    | 22.0 × 25                         | 0.91                                       | B43254A1277M0*# |
|                | 270                                    | 25.4 × 20                         | 0.93                                       | B43254B1277M0*# |
|                | 330                                    | 22.0 × 25                         | 1.01                                       | B43254A1337M0*# |
|                | 330                                    | 25.4 × 20                         | 1.03                                       | B43254B1337M0*# |
|                | 390                                    | 22.0 × 25                         | 1.09                                       | B43254A1397M0*# |
|                | 390                                    | 25.4 × 25                         | 1.20                                       | B43254B1397M0*# |
|                | 390                                    | 30.0 × 20                         | 1.23                                       | B43254C1397M0*# |
|                | 470                                    | 22.0 × 30                         | 1.28                                       | B43254A1477M0*# |
|                | 470                                    | 25.4 × 25                         | 1.32                                       | B43254B1477M0*# |
|                | 470                                    | 30.0 × 20                         | 1.35                                       | B43254C1477M0*# |
|                | 560                                    | 22.0 × 35                         | 1.48                                       | B43254A1567M0*# |
|                | 560                                    | 25.4 × 30                         | 1.53                                       | B43254B1567M0*# |
|                | 560                                    | 30.0 × 25                         | 1.57                                       | B43254C1567M0*# |
|                | 560                                    | 35.0 × 20                         | 1.60                                       | B43254D1567M0*# |
|                | 680                                    | 22.0 × 40                         | 1.72                                       | B43254A1687M0*# |
|                | 680                                    | 25.4 × 30                         | 1.69                                       | B43254B1687M0*# |
|                | 680                                    | 30.0 × 25                         | 1.73                                       | B43254C1687M0*# |
|                | 680                                    | 35.0 × 20                         | 1.76                                       | B43254D1687M0*# |
|                | 820                                    | 22.0 × 45                         | 1.98                                       | B43254A1827M0*# |
|                | 820                                    | 25.4 × 35                         | 1.96                                       | B43254B1827M0*# |
|                | 820                                    | 30.0 × 30                         | 2.02                                       | B43254C1827M0*# |
|                | 820                                    | 35.0 × 25                         | 2.06                                       | B43254D1827M0*# |
|                | 1000                                   | 22.0 × 50                         | 2.28                                       | B43254A1108M0*# |
|                | 1000                                   | 25.4 × 40                         | 2.28                                       | B43254B1108M0*# |
|                | 1000                                   | 30.0 × 30                         | 2.23                                       | B43254C1108M0*# |
|                | 1000                                   | 35.0 × 25                         | 2.28                                       | B43254D1108M0*# |
|                | 1200                                   | 25.4 × 45                         | 2.41                                       | B43254A1128M0*# |
|                | 1200                                   | 30.0 × 35                         | 2.38                                       | B43254B1128M0*# |
|                | 1200                                   | 35.0 × 30                         | 2.44                                       | B43254C1128M0*# |
|                | 1500                                   | 25.4 × 50                         | 2.81                                       | B43254A1158M0*# |
|                | 1500                                   | 30.0 × 40                         | 2.79                                       | B43254B1158M0*# |
|                | 1500                                   | 35.0 × 30                         | 2.73                                       | B43254C1158M0*# |
|                | 1800                                   | 30.0 × 45                         | 3.19                                       | B43254A1188M0*# |

\* = Insulation feature

0 = PVC sleeve

6 = PET sleeve

# = Terminal style

0 = snap-in standard terminals (6.0±1) mm

2 = snap-in 3 terminals (4.0±0.5) mm

4 = snap-in 4 terminals (6.0±1) mm

7 = snap-in short terminals (4.0±0.5) mm

8 = vibration-resistance terminals (4.5±1) mm

**Technical dates and ordering codes**

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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   |
|----------------|----------------------------------------|-----------------------------------|--------------------------------------------|-----------------|
| 160            | 1800                                   | 35.0 × 35                         | 3.14                                       | B43254B1188M0*# |
|                | 2200                                   | 30.0 × 50                         | 3.44                                       | B43254A1228M0*# |
|                | 2200                                   | 35.0 × 45                         | 3.55                                       | B43254B1228M0*# |
|                | 2200                                   | 35.0 × 50                         | 3.74                                       | B43254C1228M0*# |
|                | 2700                                   | 35.0 × 50                         | 4.08                                       | B43254A1278M0*# |
| 200            | 150                                    | 22.0 × 20                         | 0.63                                       | B43254A2157M0*# |
|                | 180                                    | 22.0 × 20                         | 0.69                                       | B43254A2187M0*# |
|                | 180                                    | 25.4 × 20                         | 0.76                                       | B43254B2187M0*# |
|                | 220                                    | 22.0 × 25                         | 0.82                                       | B43254A2227M0*# |
|                | 220                                    | 25.4 × 20                         | 0.84                                       | B43254B2227M0*# |
|                | 270                                    | 22.0 × 25                         | 0.91                                       | B43254A2277M0*# |
|                | 270                                    | 25.4 × 25                         | 1.00                                       | B43254B2277M0*# |
|                | 270                                    | 30.0 × 20                         | 1.02                                       | B43254C2277M0*# |
|                | 330                                    | 22.0 × 30                         | 1.07                                       | B43254A2337M0*# |
|                | 330                                    | 25.4 × 25                         | 1.11                                       | B43254B2337M0*# |
|                | 330                                    | 30.0 × 20                         | 1.13                                       | B43254C2337M0*# |
|                | 390                                    | 22.0 × 30                         | 1.17                                       | B43254A2397M0*# |
|                | 390                                    | 25.4 × 25                         | 1.20                                       | B43254B2397M0*# |
|                | 390                                    | 30.0 × 25                         | 1.31                                       | B43254C2397M0*# |
|                | 390                                    | 35.0 × 20                         | 1.34                                       | B43254D2397M0*# |
|                | 470                                    | 22.0 × 35                         | 1.36                                       | B43254A2477M0*# |
|                | 470                                    | 25.4 × 30                         | 1.40                                       | B43254B2477M0*# |
|                | 470                                    | 30.0 × 25                         | 1.44                                       | B43254C2477M0*# |
|                | 470                                    | 35.0 × 20                         | 1.47                                       | B43254D2477M0*# |
|                | 560                                    | 22.0 × 40                         | 1.56                                       | B43254A2567M0*# |
|                | 560                                    | 25.4 × 30                         | 1.53                                       | B43254B2567M0*# |
|                | 560                                    | 30.0 × 25                         | 1.57                                       | B43254C2567M0*# |
|                | 560                                    | 35.0 × 25                         | 1.70                                       | B43254D2567M0*# |
|                | 680                                    | 22.0 × 45                         | 1.80                                       | B43254A2687M0*# |
|                | 680                                    | 25.4 × 35                         | 1.79                                       | B43254B2687M0*# |
|                | 680                                    | 30.0 × 30                         | 1.84                                       | B43254C2687M0*# |
|                | 680                                    | 35.0 × 25                         | 1.88                                       | B43254D2687M0*# |
|                | 820                                    | 25.4 × 45                         | 2.16                                       | B43254A2827M0*# |
|                | 820                                    | 30.0 × 30                         | 2.02                                       | B43254B2827M0*# |

\* = Insulation feature

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# = Terminal style

0 = snap-in standard terminals (6.0±1) mm

2 = snap-in 3 terminals (4.0±0.5) mm

4 = snap-in 4 terminals (6.0±1) mm

7 = snap-in short terminals (4.0±0.5) mm

8 = vibration-resistance terminals (4.5±1) mm

**Technical dates and ordering codes**

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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   |
|----------------|----------------------------------------|-----------------------------------|--------------------------------------------|-----------------|
| 200            | 820                                    | 35.0 × 25                         | 2.06                                       | B43254C2827M0*# |
|                | 1000                                   | 25.4 × 50                         | 2.48                                       | B43254A2108M0*# |
|                | 1000                                   | 30.0 × 35                         | 2.35                                       | B43254B2108M0*# |
|                | 1000                                   | 35.0 × 30                         | 2.41                                       | B43254C2108M0*# |
|                | 1200                                   | 30.0 × 40                         | 2.50                                       | B43254A2128M0*# |
|                | 1200                                   | 35.0 × 35                         | 2.57                                       | B43254B2128M0*# |
|                | 1500                                   | 30.0 × 50                         | 3.04                                       | B43254A2158M0*# |
|                | 1500                                   | 35.0 × 40                         | 3.00                                       | B43254B2158M0*# |
|                | 1800                                   | 35.0 × 45                         | 3.43                                       | B43254A2188M0*# |
|                | 2200                                   | 35.0 × 50                         | 3.68                                       | B43254A2228M0*# |
| 250            | 120                                    | 22.0 × 20                         | 0.56                                       | B43254E2127M0*# |
|                | 150                                    | 22.0 × 25                         | 0.68                                       | B43254E2157M0*# |
|                | 150                                    | 25.4 × 20                         | 0.69                                       | B43254F2157M0*# |
|                | 180                                    | 22.0 × 25                         | 0.74                                       | B43254E2187M0*# |
|                | 180                                    | 25.4 × 20                         | 0.76                                       | B43254F2187M0*# |
|                | 220                                    | 30.0 × 20                         | 0.92                                       | B43254C2227M0*# |
|                | 220                                    | 22.0 × 25                         | 0.82                                       | B43254E2227M0*# |
|                | 220                                    | 25.4 × 25                         | 0.90                                       | B43254F2227M0*# |
|                | 270                                    | 22.0 × 30                         | 0.97                                       | B43254E2277M0*# |
|                | 270                                    | 25.4 × 25                         | 1.00                                       | B43254F2277M0*# |
|                | 270                                    | 30.0 × 20                         | 1.02                                       | B43254G2277M0*# |
|                | 330                                    | 35.0 × 20                         | 1.23                                       | B43254D2337M0*# |
|                | 330                                    | 22.0 × 35                         | 1.14                                       | B43254E2337M0*# |
|                | 330                                    | 25.4 × 30                         | 1.18                                       | B43254F2337M0*# |
|                | 330                                    | 30.0 × 25                         | 1.21                                       | B43254G2337M0*# |
|                | 390                                    | 22.0 × 40                         | 1.30                                       | B43254E2397M0*# |
|                | 390                                    | 25.4 × 35                         | 1.35                                       | B43254F2397M0*# |
|                | 390                                    | 30.0 × 25                         | 1.31                                       | B43254G2397M0*# |
|                | 390                                    | 35.0 × 25                         | 1.42                                       | B43254H2397M0*# |
|                | 470                                    | 22.0 × 45                         | 1.50                                       | B43254E2477M0*# |
|                | 470                                    | 25.4 × 35                         | 1.48                                       | B43254F2477M0*# |
|                | 470                                    | 30.0 × 30                         | 1.53                                       | B43254G2477M0*# |
|                | 470                                    | 35.0 × 25                         | 1.56                                       | B43254H2477M0*# |

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7 = snap-in short terminals (4.0±0.5) mm

8 = vibration-resistance terminals (4.5±1) mm

**Technical dates and ordering codes**

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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            | 560                                    | 22.0 × 50                         | 1.71                                       | B43254E2567M0*# |
|                | 560                                    | 25.4 × 40                         | 1.70                                       | B43254F2567M0*# |
|                | 560                                    | 30.0 × 30                         | 1.67                                       | B43254G2567M0*# |
|                | 560                                    | 35.0 × 25                         | 1.70                                       | B43254H2567M0*# |
|                | 680                                    | 25.4 × 50                         | 2.05                                       | B43254E2687M0*# |
|                | 680                                    | 30.0 × 35                         | 1.94                                       | B43254F2687M0*# |
|                | 680                                    | 35.0 × 30                         | 1.98                                       | B43254G2687M0*# |
|                | 820                                    | 30.0 × 40                         | 2.23                                       | B43254E2827M0*# |
|                | 820                                    | 35.0 × 35                         | 2.29                                       | B43254F2827M0*# |
|                | 1000                                   | 30.0 × 50                         | 2.68                                       | B43254E2108M0*# |
|                | 1000                                   | 35.0 × 40                         | 2.65                                       | B43254F2108M0*# |
|                | 1200                                   | 30.0 × 60                         | 2.92                                       | B43254E2128M0*# |
|                | 1200                                   | 35.0 × 45                         | 2.80                                       | B43254F2128M0*# |
|                | 1500                                   | 35.0 × 50                         | 3.25                                       | B43254E2158M0*# |
| 350            | 56                                     | 22.0 × 20                         | 0.37                                       | B43254A4566M0*# |
|                | 68                                     | 22.0 × 20                         | 0.41                                       | B43254A4686M0*# |
|                | 68                                     | 25.4 × 20                         | 0.45                                       | B43254B4686M0*# |
|                | 82                                     | 22.0 × 25                         | 0.48                                       | B43254A4826M0*# |
|                | 82                                     | 25.4 × 20                         | 0.49                                       | B43254B4826M0*# |
|                | 100                                    | 22.0 × 25                         | 0.53                                       | B43254A4107M0*# |
|                | 100                                    | 25.4 × 25                         | 0.58                                       | B43254B4107M0*# |
|                | 100                                    | 30.0 × 20                         | 0.60                                       | B43254C4107M0*# |
|                | 120                                    | 22.0 × 30                         | 0.62                                       | B43254A4127M0*# |
|                | 120                                    | 25.4 × 25                         | 0.64                                       | B43254B4127M0*# |
|                | 120                                    | 30.0 × 20                         | 0.65                                       | B43254C4127M0*# |
|                | 150                                    | 22.0 × 35                         | 0.74                                       | B43254A4157M0*# |
|                | 150                                    | 25.4 × 30                         | 0.76                                       | B43254B4157M0*# |
|                | 150                                    | 30.0 × 25                         | 0.78                                       | B43254C4157M0*# |
|                | 150                                    | 35.0 × 20                         | 0.80                                       | B43254D4157M0*# |
|                | 180                                    | 22.0 × 40                         | 0.85                                       | B43254A4187M0*# |
|                | 180                                    | 25.4 × 30                         | 0.83                                       | B43254B4187M0*# |
|                | 180                                    | 30.0 × 25                         | 0.86                                       | B43254C4187M0*# |
|                | 180                                    | 35.0 × 20                         | 0.87                                       | B43254D4187M0*# |

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Technical dates and ordering codes

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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   |
|----------------|----------------------------------------|-----------------------------------|--------------------------------------------|-----------------|
| 350            | 220                                    | 22.0 × 45                         | 0.98                                       | B43254A4227M0*# |
|                | 220                                    | 25.4 × 35                         | 0.98                                       | B43254B4227M0*# |
|                | 220                                    | 30.0 × 30                         | 1.00                                       | B43254C4227M0*# |
|                | 220                                    | 35.0 × 25                         | 1.03                                       | B43254D4227M0*# |
|                | 270                                    | 22.0 × 50                         | 1.14                                       | B43254A4277M0*# |
|                | 270                                    | 25.4 × 40                         | 1.14                                       | B43254B4277M0*# |
|                | 270                                    | 30.0 × 30                         | 1.11                                       | B43254C4277M0*# |
|                | 270                                    | 35.0 × 25                         | 1.14                                       | B43254D4277M0*# |
|                | 330                                    | 25.4 × 45                         | 1.31                                       | B43254A4337M0*# |
|                | 330                                    | 30.0 × 35                         | 1.30                                       | B43254B4337M0*# |
|                | 330                                    | 35.0 × 30                         | 1.33                                       | B43254C4337M0*# |
|                | 390                                    | 25.4 × 50                         | 1.49                                       | B43254A4397M0*# |
|                | 390                                    | 30.0 × 40                         | 1.48                                       | B43254B4397M0*# |
|                | 390                                    | 35.0 × 35                         | 1.52                                       | B43254C4397M0*# |
|                | 470                                    | 30.0 × 45                         | 1.69                                       | B43254A4477M0*# |
|                | 470                                    | 35.0 × 35                         | 1.67                                       | B43254B4477M0*# |
|                | 560                                    | 30.0 × 50                         | 1.92                                       | B43254A4567M0*# |
|                | 560                                    | 35.0 × 40                         | 1.90                                       | B43254B4567M0*# |
|                | 680                                    | 35.0 × 50                         | 2.27                                       | B43254A4687M0*# |
| 400            | 47                                     | 22.0 × 20                         | 0.34                                       | B43254A9476M0*# |
|                | 56                                     | 22.0 × 20                         | 0.37                                       | B43254A9566M0*# |
|                | 56                                     | 25.4 × 20                         | 0.41                                       | B43254B9566M0*# |
|                | 68                                     | 22.0 × 25                         | 0.44                                       | B43254A9686M0*# |
|                | 68                                     | 25.4 × 20                         | 0.45                                       | B43254B9686M0*# |
|                | 82                                     | 22.0 × 25                         | 0.48                                       | B43254A9826M0*# |
|                | 82                                     | 25.4 × 25                         | 0.53                                       | B43254B9826M0*# |
|                | 82                                     | 30.0 × 20                         | 0.54                                       | B43254C9826M0*# |
|                | 100                                    | 22.0 × 30                         | 0.57                                       | B43254A9107M0*# |
|                | 100                                    | 25.4 × 25                         | 0.58                                       | B43254B9107M0*# |
|                | 100                                    | 30.0 × 20                         | 0.60                                       | B43254C9107M0*# |
|                | 120                                    | 22.0 × 35                         | 0.66                                       | B43254A9127M0*# |
|                | 120                                    | 25.4 × 25                         | 0.64                                       | B43254B9127M0*# |

\* = Insulation feature  
0 = PVC sleeve  
6 = PET sleeve

# = Terminal style  
0 = snap-in standard terminals (6.0±1) mm  
2 = snap-in 3 terminals (4.0±0.5) mm  
4 = snap-in 4 terminals (6.0±1) mm  
7 = snap-in short terminals (4.0±0.5) mm  
8 = vibration-resistance terminals (4.5±1) mm

# Technical dates and ordering codes

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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   |
|----------------|----------------------------------------|-----------------------------------|--------------------------------------------|-----------------|
| 400            | 120                                    | 30.0 × 25                         | 0.70                                       | B43254C9127M0*# |
|                | 120                                    | 35.0 × 20                         | 0.71                                       | B43254D9127M0*# |
|                | 150                                    | 22.0 × 40                         | 0.78                                       | B43254A9157M0*# |
|                | 150                                    | 25.4 × 30                         | 0.76                                       | B43254B9157M0*# |
|                | 150                                    | 30.0 × 25                         | 0.78                                       | B43254C9157M0*# |
|                | 150                                    | 35.0 × 20                         | 0.80                                       | B43254D9157M0*# |
|                | 180                                    | 22.0 × 45                         | 0.89                                       | B43254A9187M0*# |
|                | 180                                    | 25.4 × 35                         | 0.88                                       | B43254B9187M0*# |
|                | 180                                    | 30.0 × 30                         | 0.91                                       | B43254C9187M0*# |
|                | 180                                    | 35.0 × 25                         | 0.93                                       | B43254D9187M0*# |
|                | 220                                    | 22.0 × 50                         | 1.03                                       | B43254A9227M0*# |
|                | 220                                    | 25.4 × 40                         | 1.03                                       | B43254B9227M0*# |
|                | 220                                    | 30.0 × 30                         | 1.00                                       | B43254C9227M0*# |
|                | 220                                    | 35.0 × 25                         | 1.03                                       | B43254D9227M0*# |
|                | 270                                    | 25.4 × 45                         | 1.19                                       | B43254A9277M0*# |
|                | 270                                    | 30.0 × 35                         | 1.17                                       | B43254B9277M0*# |
|                | 270                                    | 35.0 × 30                         | 1.20                                       | B43254C9277M0*# |
|                | 330                                    | 25.4 × 50                         | 1.37                                       | B43254A9337M0*# |
|                | 330                                    | 30.0 × 40                         | 1.36                                       | B43254B9337M0*# |
|                | 330                                    | 35.0 × 30                         | 1.33                                       | B43254C9337M0*# |
|                | 390                                    | 30.0 × 45                         | 1.54                                       | B43254A9397M0*# |
|                | 390                                    | 35.0 × 35                         | 1.52                                       | B43254B9397M0*# |
|                | 470                                    | 30.0 × 50                         | 1.76                                       | B43254A9477M0*# |
|                | 470                                    | 35.0 × 40                         | 1.74                                       | B43254B9477M0*# |
|                | 560                                    | 35.0 × 45                         | 1.98                                       | B43254A9567M0*# |
|                | 680                                    | 35.0 × 50                         | 2.27                                       | B43254A9687M0*# |
|                | 820                                    | 35.0 × 60                         | 2.70                                       | B43254A9827M0*# |
| 450            | 56                                     | 22.0 × 25                         | 0.29                                       | B43254A5566M0*# |
|                | 68                                     | 22.0 × 30                         | 0.34                                       | B43254A5686M0*# |
|                | 68                                     | 25.4 × 25                         | 0.35                                       | B43254B5686M0*# |
|                | 82                                     | 22.0 × 30                         | 0.38                                       | B43254A5826M0*# |
|                | 82                                     | 25.4 × 25                         | 0.39                                       | B43254B5826M0*# |
|                | 82                                     | 30.0 × 20                         | 0.39                                       | B43254C5826M0*# |

\* = Insulation feature

0 = PVC sleeve  
6 = PET sleeve

# = Terminal style

0 = snap-in standard terminals (6.0±1) mm  
2 = snap-in 3 terminals (4.0±0.5) mm  
4 = snap-in 4 terminals (6.0±1) mm  
7 = snap-in short terminals (4.0±0.5) mm  
8 = vibration-resistance terminals (4.5±1) mm

**Technical dates and ordering codes**

| V <sub>R</sub> | C <sub>R</sub><br>120Hz<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   |
|----------------|----------------------------------------|-----------------------------------|--------------------------------------------|-----------------|
| 450            | 100                                    | 22.0 × 35                         | 0.44                                       | B43254A5107M0*# |
|                | 100                                    | 25.4 × 30                         | 0.46                                       | B43254B5107M0*# |
|                | 100                                    | 30.0 × 25                         | 0.47                                       | B43254C5107M0*# |
|                | 120                                    | 22.0 × 40                         | 0.51                                       | B43254A5127M0*# |
|                | 120                                    | 25.4 × 30                         | 0.50                                       | B43254B5127M0*# |
|                | 120                                    | 30.0 × 25                         | 0.51                                       | B43254C5127M0*# |
|                | 120                                    | 35.0 × 25                         | 0.56                                       | B43254D5127M0*# |
|                | 150                                    | 22.0 × 45                         | 0.60                                       | B43254A5157M0*# |
|                | 150                                    | 25.4 × 40                         | 0.62                                       | B43254B5157M0*# |
|                | 150                                    | 30.0 × 30                         | 0.61                                       | B43254C5157M0*# |
|                | 150                                    | 35.0 × 25                         | 0.62                                       | B43254D5157M0*# |
|                | 180                                    | 22.0 × 50                         | 0.68                                       | B43254A5187M0*# |
|                | 180                                    | 25.4 × 40                         | 0.68                                       | B43254B5187M0*# |
|                | 180                                    | 30.0 × 30                         | 0.67                                       | B43254C5187M0*# |
|                | 180                                    | 35.0 × 25                         | 0.68                                       | B43254D5187M0*# |
|                | 220                                    | 25.4 × 50                         | 0.79                                       | B43254A5227M0*# |
|                | 220                                    | 30.0 × 35                         | 0.78                                       | B43254B5227M0*# |
|                | 220                                    | 35.0 × 25                         | 0.75                                       | B43254C5227M0*# |
|                | 270                                    | 30.0 × 40                         | 0.90                                       | B43254A5277M0*# |
|                | 270                                    | 35.0 × 30                         | 0.88                                       | B43254B5277M0*# |
|                | 330                                    | 30.0 × 45                         | 1.04                                       | B43254A5337M0*# |
|                | 330                                    | 35.0 × 35                         | 1.03                                       | B43254B5337M0*# |
|                | 390                                    | 30.0 × 50                         | 1.18                                       | B43254A5397M0*# |
|                | 390                                    | 35.0 × 40                         | 1.17                                       | B43254B5397M0*# |
|                | 470                                    | 35.0 × 45                         | 1.34                                       | B43254A5477M0*# |
|                | 560                                    | 35.0 × 50                         | 1.52                                       | B43254A5567M0*# |

\* = Insulation feature

0 = PVC sleeve

6 = PET sleeve

# = Terminal style

0 = snap-in standard terminals (6.0±1) mm

2 = snap-in 3 terminals (4.0±0.5) mm

4 = snap-in 4 terminals (6.0±1) mm

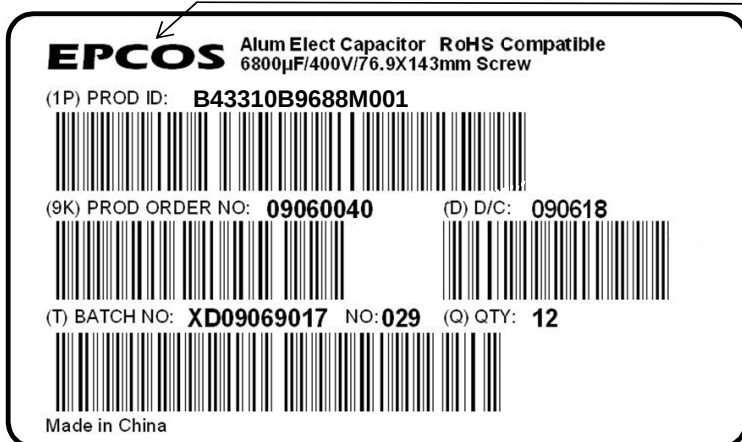
7 = snap-in short terminals (4.0±0.5) mm

8 = vibration-resistance terminals (4.5±1) mm

## Bar code label and marking of the capacitor 条形码标签和电容器标签

Below is an example of bar code label on package:

以下为包装箱上条形码标签示例：



Brand 品牌

|                           |            |
|---------------------------|------------|
| (1P) Ordering code        | 订购代码       |
| (9K) Product order number | 订单号        |
| (D) Date code (yywwdd)    | 日期代码 (年月日) |
| (T) Batch number          | 批号         |
| (Q) Quantity              | 数量         |

The two examples below shows how the capacitor sleeve are marked according to case height:

以下两个示例说明不同壳体高度电容器套管上的标签内容：

Case height

壳体高度

|       |                                                                                                |                                                                                                                                                                  |                                                                              |
|-------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 20mm  | <p>Brand: EPCOS</p> <p>B43231-A9337-M</p> <p>330µF (M) 400V-</p> <p>25/085/56 MM.JJ</p>        | <p>Brand</p> <p>Part number (ordering code)</p> <p>Rated capacitance, tolerance, rated voltage,</p> <p>Climatic category, month and year of production</p>       | <p>品牌</p> <p>料号 (订购代码)</p> <p>额定电容、容差、额定电压</p> <p>气候分类、月.年 (生产日期)</p>        |
| 25mm  | <p>Brand: EPCOS</p> <p>B43231-A9337-M</p> <p>330µF (M) 400V-</p> <p>25/085/56</p> <p>MM.JJ</p> | <p>Brand</p> <p>Part number (ordering code)</p> <p>Rated capacitance, tolerance, rated voltage,</p> <p>Climatic category</p> <p>Month and year of production</p> | <p>品牌</p> <p>料号 (订购代码)</p> <p>额定电容、容差、额定电压</p> <p>气候分类</p> <p>月.年 (生产日期)</p> |
| >25mm | <p>Brand: EPCOS</p> <p>B43231-A9337-M</p> <p>330µF (M) 400V-</p> <p>25/085/56</p> <p>MM.JJ</p> | <p>Brand</p> <p>Part number (ordering code)</p> <p>Rated capacitance, tolerance, rated voltage,</p> <p>Climatic category</p> <p>Month and year of production</p> | <p>品牌</p> <p>料号 (订购代码)</p> <p>额定电容、容差、额定电压</p> <p>气候分类</p> <p>月.年 (生产日期)</p> |

The climatic category is specified according to IEC 60068-1. If there is not enough space on the case, the following codes may be used:

气候类别符合 IEC 60068 - 1。如果壳体上没有足够空间，可使用以下代码：

E.g.: 40/085/56, in coded form, would read GPF 例如：40/085/56的代码形式为GPF

1st letter (lower category temperature) 首字母 (下限类别温度)

| Code letter 字母代码     | F   | G   | H   |
|----------------------|-----|-----|-----|
| Temperature 温度 (° C) | -55 | -40 | -25 |

2nd letter (upper category temperature) 第二字母 (上限类别温度)

| Code letter 代码字母     | K    | M          | P   | S   | U   |
|----------------------|------|------------|-----|-----|-----|
| Temperature 温度 (° C) | +125 | +105(+100) | +85 | +70 | +60 |

3rd letter (humidity) 第三字母 (湿度)

Letter F: withstands IEC60068-2-78 Cab (damp heat, steady state), test duration 56 days.

字母F：经受IEC 60068-2-78试验箱（湿热、恒稳态），试验周期56天。

## 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 we are 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 a 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.tdk-electronics.tdk.com/material](http://www.tdk-electronics.tdk.com/material)). Should you have any more detailed questions, please contact our sales offices.
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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 the case of individual agreements deviating from the foregoing for customer-specific products.

6. Unless otherwise agreed in individual contracts, **all orders are subject to our General Terms and Conditions of Supply**.
7. **Our manufacturing sites serving the automotive business apply the IATF 16949 standard**. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that **only requirements mutually agreed upon can and will be implemented in our Quality Management System**. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.
8. The trade names EPCOS, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at [www.tdk-electronics.tdk.com/trademarks](http://www.tdk-electronics.tdk.com/trademarks).

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