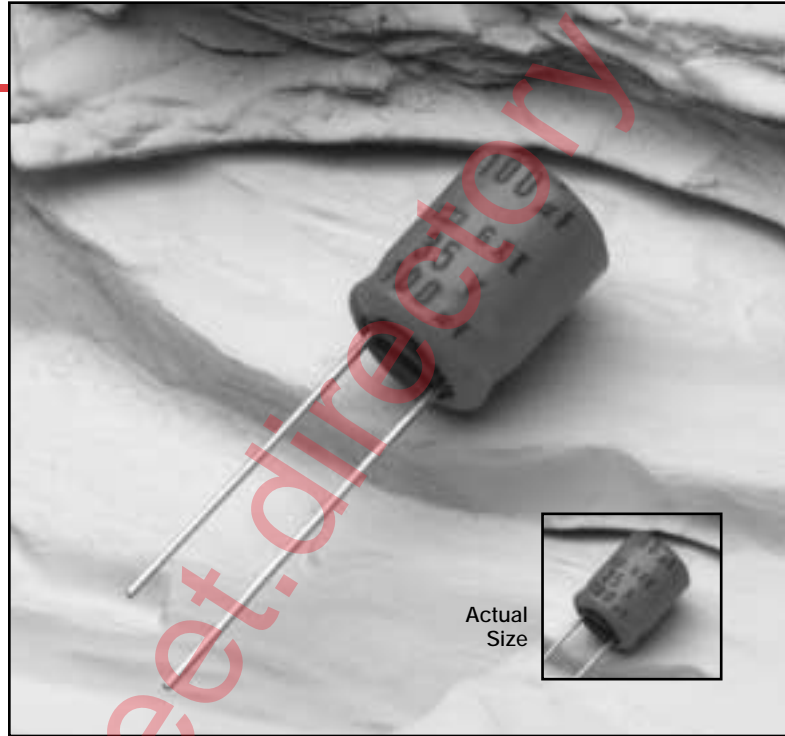


- Miniature
- Long Life
- High CV
- High Reliability
- +125°C
Maximum
Temperature



The GXE series capacitors are new miniature high temperature capacitors from United Chemi-Con. These capacitors are designed for use in very high temperature applications such as automotive engine controls. These GXE capacitors are an improved series offering longer useful lifetimes when compared to the older GXD series.

The GXE series capacitors are non-solvent proof. Refer to the Mini-Glossary for cleaning guidelines and recommended cleaning agents that are compatible with United Chemi-Con products.

Summary of Specifications

- Radial lead terminals.
- Capacitance range: 4.7 to 4,700 μ F.
- Voltage range: 10 to 450VDC.
- Category temperature range: -40°C to +125°C for 10 to 250V; -25°C to +125°C for 350 to 450V.
- Leakage current: See specifications table for leakage current at +20°C.
- Standard capacitance tolerance: $\pm 20\%$
- Nominal case size (D \times L): 8 \times 12mm to 16 \times 31.5mm.
- Rated lifetime: 2,000 to 5,000 hours at +125°C with the rated ripple current applied, depending on case size.

GXE Series

GXE Specifications

| Item | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|----------------------------|----------------------|-----------------------------|----------------|--|-----------------|----------------|--|----------------------|---------------|-----------------------|------|------|------|------|------|------|------|------|------|-----------|-----------------------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|------|---------|------|------|------|------|--|--|--|--|--|--|---------------|------|------|------|------|--|--|--|--|--|--|---------|------|------|------|------|--|--|--|--|--|--|
| Category Temperature Range | - 40 to +125°C for 10 to 250VDC; - 25 to +125°C for 350 to 450VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 10 to 450VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 4.7 to 4,700μF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ± 20% (M) at +20°C, 120Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | <p>At +20°C</p> <table border="1"> <thead> <tr> <th>DC Rated Voltage</th> <th>Test Time</th> <th>Leakage Current (μA)</th> </tr> </thead> <tbody> <tr> <td>10-100V</td> <td>After 1 minute</td> <td>I = 0.03CV or 4μA, whichever is greater.</td> </tr> <tr> <td>160-450V</td> <td>After 1 minute</td> <td>CV ≤ 1,000: I = 0.1CV + 40 CV > 1,000: I = 0.04CV + 100</td> </tr> </tbody> </table> <p>Where I = Max. leakage current (μA), C = Nominal capacitance (μF) and V = Rated voltage (V)</p> | DC Rated Voltage | Test Time | Leakage Current (μA) | 10-100V | After 1 minute | I = 0.03CV or 4μA, whichever is greater. | 160-450V | After 1 minute | CV ≤ 1,000: I = 0.1CV + 40 CV > 1,000: I = 0.04CV + 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Rated Voltage | Test Time | Leakage Current (μA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-100V | After 1 minute | I = 0.03CV or 4μA, whichever is greater. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160-450V | After 1 minute | CV ≤ 1,000: I = 0.1CV + 40 CV > 1,000: I = 0.04CV + 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (Tan δ) | <p>At +20°C, 120Hz</p> <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160-250</th> <th>350-450</th> </tr> </thead> <tbody> <tr> <td>Tan δ (DF)</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> <p>When nominal capacitance exceeds 1,000μF, add 0.02 to the values above for each 1,000μF increase.</p> | Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160-250 | 350-450 | Tan δ (DF) | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.08 | 0.08 | 0.20 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160-250 | 350-450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ (DF) | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.08 | 0.08 | 0.20 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics | <p>At 120Hz, impedance (Z) ratio between the - 25°C or - 40°C value and +20°C value shall not exceed the values given below.</p> <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160-250</th> <th>350-450</th> </tr> </thead> <tbody> <tr> <td>Z (-25°C) / Z (+20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>6</td> </tr> <tr> <td>Z (-40°C) / Z (+20°C)</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>6</td> <td>-</td> </tr> </tbody> </table> | Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160-250 | 350-450 | Z (-25°C) / Z (+20°C) | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | Z (-40°C) / Z (+20°C) | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160-250 | 350-450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z (-25°C) / Z (+20°C) | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z (-40°C) / Z (+20°C) | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Ripple Current Multipliers <i>Refer to Section 4 of the Mini-Glossary for explanation of Rated Ripple Current Multipliers.</i> | <table border="1"> <thead> <tr> <th rowspan="2">Capacitance (μF)</th> <th colspan="4">Frequency (Hz) for 10-100V</th> <th colspan="6">Frequency (Hz) for 160-450V</th> </tr> <tr> <th>120</th> <th>1k</th> <th>10k</th> <th>100k</th> <th>50</th> <th>120</th> <th>300</th> <th>1k</th> <th>10k</th> <th>100k</th> </tr> </thead> <tbody> <tr> <td>4.7-100μF</td> <td>0.40</td> <td>0.75</td> <td>0.90</td> <td>1.00</td> <td>0.75</td> <td>1.00</td> <td>1.25</td> <td>1.50</td> <td>1.75</td> <td>1.80</td> </tr> <tr> <td>220-470μF</td> <td>0.50</td> <td>0.85</td> <td>0.94</td> <td>1.00</td> <td>0.80</td> <td>1.00</td> <td>1.15</td> <td>1.30</td> <td>1.40</td> <td>1.50</td> </tr> <tr> <td>1,000μF</td> <td>0.60</td> <td>0.87</td> <td>0.95</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2,200-3,300μF</td> <td>0.75</td> <td>0.90</td> <td>0.95</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4,700μF</td> <td>0.85</td> <td>0.95</td> <td>0.98</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Capacitance (μF) | Frequency (Hz) for 10-100V | | | | Frequency (Hz) for 160-450V | | | | | | 120 | 1k | 10k | 100k | 50 | 120 | 300 | 1k | 10k | 100k | 4.7-100μF | 0.40 | 0.75 | 0.90 | 1.00 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 1.80 | 220-470μF | 0.50 | 0.85 | 0.94 | 1.00 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 | 1.50 | 1,000μF | 0.60 | 0.87 | 0.95 | 1.00 | | | | | | | 2,200-3,300μF | 0.75 | 0.90 | 0.95 | 1.00 | | | | | | | 4,700μF | 0.85 | 0.95 | 0.98 | 1.00 | | | | | | |
| Capacitance (μF) | Frequency (Hz) for 10-100V | | | | Frequency (Hz) for 160-450V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 120 | 1k | 10k | 100k | 50 | 120 | 300 | 1k | 10k | 100k | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.7-100μF | 0.40 | 0.75 | 0.90 | 1.00 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 1.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220-470μF | 0.50 | 0.85 | 0.94 | 1.00 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 | 1.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000μF | 0.60 | 0.87 | 0.95 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,200-3,300μF | 0.75 | 0.90 | 0.95 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,700μF | 0.85 | 0.95 | 0.98 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance (Load Life) | <p>The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to DC voltage for the specified test time at +125°C with the rated ripple current applied. The sum of DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.</p> <table border="1"> <thead> <tr> <th>Case Diameter</th> <th>Test Time (10-100V)</th> </tr> </thead> <tbody> <tr> <td>ø8mm</td> <td>2,000 Hours</td> </tr> <tr> <td>ø10mm</td> <td>3,000 Hours</td> </tr> <tr> <td>ø12.5mm & Above</td> <td>5,000 Hours</td> </tr> </tbody> </table> <p>10-100V</p> <p>Capacitance change: ≤ ± 30% of initial measured value Tan δ (DF): ≤ 300% of initial specified value Leakage current: ≤ initial specified value</p> <table border="1"> <thead> <tr> <th>Case Diameter</th> <th>Test Time (160-450V)</th> </tr> </thead> <tbody> <tr> <td>ø10mm & Above</td> <td>2,000 Hours</td> </tr> </tbody> </table> <p>160-450V</p> <p>Capacitance change: ≤ ± 20% of initial measured value Tan δ (DF): ≤ 200% of initial specified value Leakage current: ≤ initial specified value</p> | Case Diameter | Test Time (10-100V) | ø8mm | 2,000 Hours | ø10mm | 3,000 Hours | ø12.5mm & Above | 5,000 Hours | Case Diameter | Test Time (160-450V) | ø10mm & Above | 2,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case Diameter | Test Time (10-100V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ø8mm | 2,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ø10mm | 3,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ø12.5mm & Above | 5,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case Diameter | Test Time (160-450V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ø10mm & Above | 2,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | <p>The following specifications shall be satisfied when the capacitors are restored to +20°C after exposing them for 1,000 hours (500 hours for ≥ 350V) at +125°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>10-100V</p> <p>Capacitance change: ≤ ± 30% of initial measured value Tan δ (DF): ≤ 300% of initial specified value Leakage current: ≤ initial specified value</p> <p>160-450V</p> <p>Capacitance change: ≤ ± 20% of initial measured value Tan δ (DF): ≤ 200% of initial specified value Leakage current: ≤ 500% of initial specified value</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GXE Series

Diagram of Dimensions

VB/Radial Lead Unit: mm

Gas escape end seal for all case diameters.

For optional lead configurations and tape and ammo packaging, refer to the beginning of the Miniature Section.

| ØD | ØD' max. | L' max. | Ød | F ± 0.5 |
|------|----------|---------|-----|---------|
| 8 | ØD+0.5 | L+2.0 | 0.6 | 3.5 |
| 10 | ØD+0.5 | L+2.0 | 0.6 | 5.0 |
| 12.5 | ØD+0.5 | L+2.0 | 0.6 | 5.0 |
| 16 | ØD+0.5 | L+2.0 | 0.8 | 7.5 |

Part Numbering System for GXE Series

When ordering, always specify complete catalog number for GXE Series.

| GXE | 35 | VB | 101 | M | 10X12 | LL |
|---|----|----|-----|---|-------|----|
| Series Name: Indicates Basic Capacitor Design. | | | | | | |
| DC Rated Voltage: Expressed in Volts (e.g. 35 = 35WVDC). | | | | | | |
| Lead Configuration: VB = Radial Lead Terminals. | | | | | | |
| Capacitance Value: Expressed in Microfarads. The first two digits are significant figures, and the third digit indicates the number of zeros for capacitance of 100µF or more. R indicates the decimal point for capacitance less than 100µF (e.g. R10 = .10µF; 1R0 = 1.0µF; 10R = 10µF; 101 = 100µF; 102 = 1,000µF; 103 = 10,000µF). | | | | | | |
| Capacitance Tolerance: M = ± 20% | | | | | | |
| Case Code: See Case Sizes in Tables. | | | | | | |
| Lead Length: LL is Standard. | | | | | | |

Standard Voltage Ratings - VB/Radial Lead (10-100V)

| Rated Voltage (WVDC) | Capacitance (µF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Maximum Impedance (Ω) at +20°C, 100kHz | Rated Ripple Current (mA rms) at +125°C, 100kHz |
|----------------------------|------------------|---------------------|-------------------------------|--|---|
| 10 Volts 13 Volts Surge | 220 | GXE10VB221M8X12LL | 8 × 12 | 0.320 | 340 |
| | 330 | GXE10VB331M10X12LL | 10 × 12.5 | 0.150 | 620 |
| | 470 | GXE10VB471M10X12LL | 10 × 12.5 | 0.150 | 620 |
| | 1,000 | GXE10VB102M10X20LL | 10 × 20 | 0.075 | 950 |
| | 2,200 | GXE10VB222M12X25LL | 12.5 × 25 | 0.040 | 1,350 |
| | 3,300 | GXE10VB332M16X25LL | 16 × 25 | 0.031 | 1,620 |
| | 4,700 | GXE10VB472M16X31LL | 16 × 31.5 | 0.025 | 1,860 |

* The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

GXE Series

Standard Voltage Ratings - VB/Radial Lead (10-100V)

| Rated Voltage (WVDC) | Capacitance (µF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Maximum Impedance (Ω) at +20°C, 100kHz | Rated Ripple Current (mA rms) at +125°C, 100kHz |
|------------------------------|---------------------|---------------------|-------------------------------|--|---|
| 16 Volts 20 Volts Surge | 100 | GXE16VB101M8X12LL | 8 × 12 | 0.320 | 340 |
| | 220 | GXE16VB221M10X12LL | 10 × 12.5 | 0.150 | 620 |
| | 330 | GXE16VB331M10X12LL | 10 × 12.5 | 0.150 | 620 |
| | 470 | GXE16VB471M10X16LL | 10 × 16 | 0.094 | 790 |
| | 1,000 | GXE16VB102M12X20LL | 12.5 × 20 | 0.058 | 1,080 |
| | 2,200 | GXE16VB222M16X25LL | 16 × 25 | 0.031 | 1,620 |
| | 3,300 | GXE16VB332M16X31LL | 16 × 31.5 | 0.025 | 1,860 |
| 25 Volts 32 Volts Surge | 100 | GXE25VB101M8X12LL | 8 × 12 | 0.320 | 340 |
| | 220 | GXE25VB221M10X12LL | 10 × 12.5 | 0.150 | 620 |
| | 330 | GXE25VB331M10X16LL | 10 × 16 | 0.094 | 790 |
| | 470 | GXE25VB471M10X20LL | 10 × 20 | 0.075 | 950 |
| | 1,000 | GXE25VB102M12X25LL | 12.5 × 25 | 0.040 | 1,350 |
| | 2,200 | GXE25VB222M16X31LL | 16 × 31.5 | 0.025 | 1,860 |
| 35 Volts 44 Volts Surge | 100 | GXE35VB101M8X12LL | 8 × 12 | 0.320 | 340 |
| | 100 | GXE35VB101M10X12LL | 10 × 12.5 | 0.150 | 620 |
| | 220 | GXE35VB221M10X16LL | 10 × 16 | 0.094 | 790 |
| | 330 | GXE35VB331M10X20LL | 10 × 20 | 0.075 | 950 |
| | 470 | GXE35VB471M12X20LL | 12.5 × 20 | 0.058 | 1,080 |
| | 1,000 | GXE35VB102M16X25LL | 16 × 25 | 0.031 | 1,620 |
| 50 Volts 63 Volts Surge | 10 | GXE50VB10RM8X12LL | 8 × 12 | 0.750 | 180 |
| | 22 | GXE50VB22RM8X12LL | 8 × 12 | 0.500 | 250 |
| | 33 | GXE50VB33RM8X12LL | 8 × 12 | 0.500 | 280 |
| | 47 | GXE50VB47RM8X12LL | 8 × 12 | 0.500 | 280 |
| | 100 | GXE50VB101M10X12LL | 10 × 12.5 | 0.200 | 520 |
| | 220 | GXE50VB221M10X20LL | 10 × 20 | 0.098 | 880 |
| | 330 | GXE50VB331M12X20LL | 12.5 × 20 | 0.081 | 990 |
| | 470 | GXE50VB471M12X25LL | 12.5 × 25 | 0.059 | 1,150 |
| | 1,000 | GXE50VB102M16X31LL | 16 × 31.5 | 0.032 | 1,590 |
| 63 Volts 79 Volts Surge | 33 | GXE63VB33RM8X12LL | 8 × 12 | 1.500 | 150 |
| | 47 | GXE63VB47RM10X12LL | 10 × 12.5 | 0.590 | 530 |
| | 100 | GXE63VB101M10X16LL | 10 × 16 | 0.410 | 690 |
| | 220 | GXE63VB221M12X20LL | 12.5 × 20 | 0.160 | 1,050 |
| | 330 | GXE63VB331M12X25LL | 12.5 × 25 | 0.120 | 1,290 |
| | 470 | GXE63VB471M12X30LL | 12.5 × 30 | 0.097 | 1,460 |
| | 1,000 | GXE63VB102M16X31LL | 16 × 31.5 | 0.059 | 1,850 |
| 80 Volts 100 Volts Surge | 22 | GXE80VB22RM8X12LL | 8 × 12 | 1.500 | 150 |
| | 33 | GXE80VB33RM10X12LL | 10 × 12.5 | 0.800 | 480 |
| | 47 | GXE80VB47RM10X12LL | 10 × 12.5 | 0.800 | 480 |
| | 100 | GXE80VB101M10X20LL | 10 × 20 | 0.390 | 790 |
| | 220 | GXE80VB221M12X25LL | 12.5 × 25 | 0.180 | 1,240 |
| | 330 | GXE80VB331M12X30LL | 12.5 × 30 | 0.160 | 1,390 |
| 100 Volts 125 Volts Surge | 4.7 | GXE100VB47M8X12LL | 8 × 12 | 2.000 | 130 |
| | 10 | GXE100VB10RM8X12LL | 8 × 12 | 1.500 | 150 |
| | 22 | GXE100VB22RM10X12LL | 10 × 12.5 | 0.800 | 480 |
| | 33 | GXE100VB33RM10X12LL | 10 × 12.5 | 0.800 | 480 |
| | 47 | GXE100VB47RM10X16LL | 10 × 16 | 0.550 | 630 |
| | 100 | GXE100VB101M12X20LL | 12.5 × 20 | 0.250 | 990 |
| | 220 | GXE100VB221M16X25LL | 16 × 25 | 0.110 | 1,500 |
| 330 | GXE100VB331M16X31LL | 16 × 31.5 | 0.079 | 1,790 | |

* The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

GXE Series

Standard Voltage Ratings - VB/Radial Lead (160 - 450V)

| Rated Voltage (WVDC) | Capacitance (μF) | Catalog Part Number | Nominal Case Size* D×L (mm) | Maximum Impedance (Ω) at +20°C, 100kHz | Rated Ripple Current (A rms) at +125°C, 120Hz |
|-------------------------------------|------------------|---------------------|-----------------------------|--|---|
| 160 Volts 200 Volts Surge | 22 | GXE160VB22RM10X20LL | 10 × 20 | 4.000 | 115 |
| | 33 | GXE160VB33RM10X25LL | 10 × 25 | 2.600 | 154 |
| | 47 | GXE160VB47RM12X20LL | 12.5 × 20 | 1.800 | 187 |
| | 68 | GXE160VB68RM12X25LL | 12.5 × 25 | 1.300 | 245 |
| | 100 | GXE160VB101M16X25LL | 16 × 25 | 0.900 | 329 |
| | 150 | GXE160VB151M16X31LL | 16 × 31.5 | 0.590 | 434 |
| 200 Volts 250 Volts Surge | 10 | GXE200VB10RM10X20LL | 10 × 20 | 3.300 | 78 |
| | 22 | GXE200VB22RM10X25LL | 10 × 25 | 2.300 | 126 |
| | 33 | GXE200VB33RM12X20LL | 12.5 × 20 | 1.800 | 157 |
| | 47 | GXE200VB47RM12X25LL | 12.5 × 25 | 1.200 | 204 |
| | 68 | GXE200VB68RM16X20LL | 16 × 20 | 1.100 | 250 |
| | 100 | GXE200VB101M16X25LL | 16 × 25 | 0.740 | 329 |
| 250 Volts 300 Volts Surge | 10 | GXE250VB10RM10X20LL | 10 × 20 | 3.300 | 78 |
| | 22 | GXE250VB22RM12X20LL | 12.5 × 20 | 1.800 | 128 |
| | 33 | GXE250VB33RM12X25LL | 12.5 × 25 | 1.200 | 171 |
| | 47 | GXE250VB47RM16X25LL | 16 × 25 | 0.760 | 225 |
| | 68 | GXE250VB68RM16X31LL | 16 × 31.5 | 0.540 | 292 |
| 350 Volts 400 Volts Surge | 4.7 | GXE350VB4R7M10X20LL | 10 × 20 | 4.700 | 53 |
| | 10 | GXE350VB10RM10X25LL | 10 × 25 | 3.400 | 85 |
| | 22 | GXE350VB22RM12X25LL | 12.5 × 25 | 1.900 | 139 |
| | 33 | GXE350VB33RM16X25LL | 16 × 25 | 1.100 | 189 |
| | 47 | GXE350VB47RM16X31LL | 16 × 31.5 | 0.810 | 243 |
| 400 Volts 450 Volts Surge | 4.7 | GXE400VB4R7M10X20LL | 10 × 20 | 5.500 | 53 |
| | 10 | GXE400VB10RM10X25LL | 10 × 25 | 3.500 | 86 |
| | 22 | GXE400VB22RM12X30LL | 12.5 × 30 | 1.600 | 142 |
| | 33 | GXE400VB33RM16X25LL | 16 × 25 | 1.200 | 189 |
| | 47 | GXE400VB47RM16X31LL | 16 × 31.5 | 0.850 | 243 |
| 450 Volts 500 Volts Surge | 4.7 | GXE450VB4R7M10X25LL | 10 × 25 | 5.500 | 58 |
| | 10 | GXE450VB10RM12X20LL | 12.5 × 20 | 4.000 | 86 |
| | 22 | GXE450VB22RM16X25LL | 16 × 25 | 1.900 | 154 |
| | 33 | GXE450VB33RM16X31LL | 16 × 31.5 | 1.300 | 203 |

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.