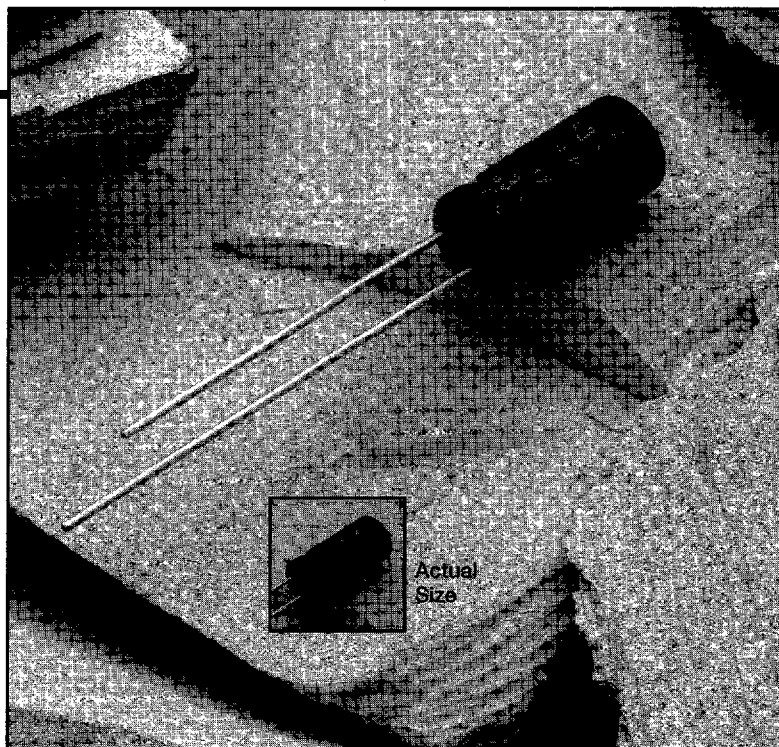


LXA/LX Series



LXA/LX
MINIATURE - 105°C

- Miniature
- Long Life
- Solvent Proof
- +105°C
Maximum
Temperature



The LXA/LX series capacitors are designed for long life and for use at high frequencies. The rated lifetime for this series is 5,000 or 7,000 hours at 105°C depending on rated voltage and case size. Typical applications in which these capacitors may be used are high reliability and industrial control equipment along with the filter circuits of switching power supplies.

The LXA/LX series capacitors were developed to withstand HCFC cleaning agents for five minutes by ultrasonic, vapor or immersion. This solvent proof design allows all circuit board components to be cleaned together, at the same time, without resorting to more expensive epoxy end-sealed capacitors. Refer to the Mini-Glossary for recommended cleaning conditions.

Summary of Specifications

- Radial lead terminals.
- Capacitance range: 0.47 to 4,700 μ F for LXA; 0.47 to 68 μ F for LX.
- Voltage range: 10 to 63VDC for LXA; 100 to 250VDC for LX.
- Operating temperature range: -55°C to +105°C for LXA; -40°C to +105°C for LX.
- Leakage current: 0.01CV or 3 μ A, whichever is greater, after 2 minutes at +20°C for LXA; 0.01CV+2 μ A for 100V and 0.04CV+100 μ A for 160V to 250V after 2 minutes at +20°C for LX.
- Standard capacitance tolerance: \pm 20%
- Nominal case size (D \times L): 6.3 \times 14mm to 18 \times 40mm for LXA; 8 \times 14mm to 18 \times 40mm for LX.
- Rated lifetime: 5,000 or 7,000 hours at +105°C depending on case size for LXA; 5,000 hours at +105°C for LX.

LXA/LX Series

LXA/LX Specifications

| Item | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--------|------|------------|-------------|----|-----|-------------------|------|------------|-----------------|------|------|------|--|------------|---------------|-----|-----|-----|-------------------|------|---------------|------|------|-----|-----|------|-----------------|-----|-----|-----|-----|------|-----------------|-----|-----|-----|-----|------|---|-------|--------|------|------|-------------|----|-----|-----|----|------------|-----------------|-----|-----|-----|-----|------|----------------|-----|-----|-----|-----|------|----------------|-----|-----|-----|-----|------|
| | LXA | LX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 10 to 63VDC | 100 to 250VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Temperature Range | -55 to +105°C | -40 to +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 0.47 to 4,700 μ F | 0.47 to 68 μ F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | \pm 20% (M) at +20°C, 120Hz | \pm 20% (M) at +20°C, 120Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | $I = 0.01CV$ or 3μ A, whichever is greater, after 5 minutes at +20°C. Where I = Leakage current (μ A), C = Nominal capacitance (μ F) and V = Rated voltage (V) | $\leq 100V$: $I = 0.01CV + 2\mu$ A after 2 minutes at +20°C. $160 - 250V$: $I = 0.04CV + 100\mu$ A after 2 minutes at +20°C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (Tan δ) | At +20°C, 120Hz <table border="1"> <thead> <tr> <th>DC Voltage</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>Tan δ (DF)</td> <td>0.30</td> <td>0.25</td> <td>0.22</td> <td>0.18</td> <td>0.15</td> <td>0.12</td> </tr> </tbody> </table> | DC Voltage | 10 | 16 | 25 | 35 | 50 | 63 | Tan δ (DF) | 0.30 | 0.25 | 0.22 | 0.18 | 0.15 | 0.12 | At +20°C, 120Hz <table border="1"> <thead> <tr> <th>DC Voltage</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> </tr> </thead> <tbody> <tr> <td>Tan δ (DF)</td> <td>0.12</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table> | DC Voltage | 100 | 160 | 200 | 250 | Tan δ (DF) | 0.12 | 0.15 | 0.15 | 0.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Voltage | 10 | 16 | 25 | 35 | 50 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ (DF) | 0.30 | 0.25 | 0.22 | 0.18 | 0.15 | 0.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Voltage | 100 | 160 | 200 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ (DF) | 0.12 | 0.15 | 0.15 | 0.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| When nominal capacitance exceeds 1,000 μ F, add 0.02 to the values above for each 1,000 μ F increase. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics | Capacitance change at 120Hz: $\Delta C (-10^\circ C) / C (+20^\circ C) \leq 20\%$ Impedance (Z) values at 100kHz, -10°C and +20°C are given in the Ratings Tables. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Multipliers <i>Refer to Section 4 of the Mini-Glossary for explanation of Ripple Current Multipliers.</i> | Ambient Temperature (°C) <table border="1"> <thead> <tr> <th>+85°C</th> <th>+105°C</th> </tr> </thead> <tbody> <tr> <td>1.75</td> <td>1.00</td> </tr> </tbody> </table> Frequency (Hz) <table border="1"> <thead> <tr> <th>Capacitance</th> <th>50</th> <th>120</th> <th>300</th> <th>1k</th> <th>$\geq 10k$</th> </tr> </thead> <tbody> <tr> <td>$\leq 4.7\mu$F</td> <td>0.1</td> <td>0.2</td> <td>0.3</td> <td>0.5</td> <td>1.00</td> </tr> <tr> <td>10-22μF</td> <td>0.2</td> <td>0.3</td> <td>0.4</td> <td>0.6</td> <td>1.00</td> </tr> <tr> <td>33-47μF</td> <td>0.3</td> <td>0.4</td> <td>0.5</td> <td>0.7</td> <td>1.00</td> </tr> <tr> <td>100-330μF</td> <td>0.4</td> <td>0.5</td> <td>0.6</td> <td>0.8</td> <td>1.00</td> </tr> <tr> <td>$\geq 470\mu$F</td> <td>0.6</td> <td>0.7</td> <td>0.8</td> <td>0.9</td> <td>1.00</td> </tr> </tbody> </table> | +85°C | +105°C | 1.75 | 1.00 | Capacitance | 50 | 120 | 300 | 1k | $\geq 10k$ | $\leq 4.7\mu$ F | 0.1 | 0.2 | 0.3 | 0.5 | 1.00 | 10-22 μ F | 0.2 | 0.3 | 0.4 | 0.6 | 1.00 | 33-47 μ F | 0.3 | 0.4 | 0.5 | 0.7 | 1.00 | 100-330 μ F | 0.4 | 0.5 | 0.6 | 0.8 | 1.00 | $\geq 470\mu$ F | 0.6 | 0.7 | 0.8 | 0.9 | 1.00 | Ambient Temperature (°C) <table border="1"> <thead> <tr> <th>+85°C</th> <th>+105°C</th> </tr> </thead> <tbody> <tr> <td>1.73</td> <td>1.00</td> </tr> </tbody> </table> Frequency (Hz) <table border="1"> <thead> <tr> <th>Capacitance</th> <th>50</th> <th>120</th> <th>300</th> <th>1k</th> <th>$\geq 10k$</th> </tr> </thead> <tbody> <tr> <td>$\leq 3.3\mu$F</td> <td>0.3</td> <td>0.4</td> <td>0.5</td> <td>0.7</td> <td>1.00</td> </tr> <tr> <td>4.7-33μF</td> <td>0.4</td> <td>0.5</td> <td>0.6</td> <td>0.8</td> <td>1.00</td> </tr> <tr> <td>$\geq 47\mu$F</td> <td>0.6</td> <td>0.7</td> <td>0.8</td> <td>0.9</td> <td>1.00</td> </tr> </tbody> </table> | +85°C | +105°C | 1.73 | 1.00 | Capacitance | 50 | 120 | 300 | 1k | $\geq 10k$ | $\leq 3.3\mu$ F | 0.3 | 0.4 | 0.5 | 0.7 | 1.00 | 4.7-33 μ F | 0.4 | 0.5 | 0.6 | 0.8 | 1.00 | $\geq 47\mu$ F | 0.6 | 0.7 | 0.8 | 0.9 | 1.00 |
| +85°C | +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.75 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance | 50 | 120 | 300 | 1k | $\geq 10k$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\leq 4.7\mu$ F | 0.1 | 0.2 | 0.3 | 0.5 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-22 μ F | 0.2 | 0.3 | 0.4 | 0.6 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33-47 μ F | 0.3 | 0.4 | 0.5 | 0.7 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100-330 μ F | 0.4 | 0.5 | 0.6 | 0.8 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\geq 470\mu$ F | 0.6 | 0.7 | 0.8 | 0.9 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| +85°C | +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.73 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance | 50 | 120 | 300 | 1k | $\geq 10k$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\leq 3.3\mu$ F | 0.3 | 0.4 | 0.5 | 0.7 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.7-33 μ F | 0.4 | 0.5 | 0.6 | 0.8 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\geq 47\mu$ F | 0.6 | 0.7 | 0.8 | 0.9 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load Life | The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to the DC rated voltage for 7,000 hours (case size $> \phi 10$) or 5,000 hours (case size $\leq \phi 10$) at +105°C. Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 300\%$ of initial specified value Leakage current: \leq initial specified value | The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to the DC rated voltage for 5,000 hours at +105°C. Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 250\%$ of initial specified value Leakage current: \leq initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to +20°C after exposing them for 1,000 hours at +105°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. Capacitance change: $\leq \pm 15\%$ of initial measured value for LXA $\leq \pm 20\%$ of initial measured value for LX Tan δ (DF) : $\leq 150\%$ of initial specified value Leakage current : \leq initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Others | Satisfies characteristic W of JIS C5141 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

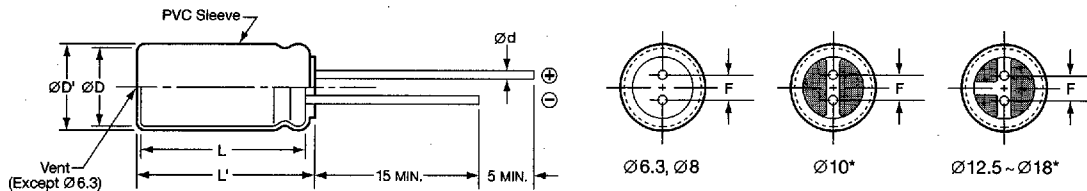
LXA/LX
 MINIATURE - 105°C

LXA/LX Series

Diagram of Dimensions

VB/Radial Lead

Unit: mm



*Gas escape end seal for Ø10 ~ Ø18

| ØD | ØD' | L' (LXA) | L' (LX) | Ød | F±0.5 |
|------|--------|----------|---------|-----|-------|
| 6.3 | ØD+0.5 | L+1.0 | - | 0.5 | 2.5 |
| 8 | ØD+0.5 | L+1.0 | L+1.5 | 0.6 | 3.5 |
| 10 | ØD+0.5 | L+1.0 | L+1.5 | 0.6 | 5.0 |
| 12.5 | ØD+0.5 | L+1.0 | L+1.5 | 0.6 | 5.0 |
| 16 | ØD+0.5 | L+1.5 | L+2.0 | 0.8 | 7.5 |
| 18 | ØD+0.5 | L+1.5 | L+2.0 | 0.8 | 7.5 |

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

Part Numbering System for LXA/LX Series

When ordering, always specify complete catalog number for LXA/LX Series.

LXA 63 VB 10R M 6X14 LL

Lead Length: LL is Standard.

Case Code: See Case Sizes in Tables.

Capacitance Tolerance: M = ±20%

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).

Lead Configuration: VB = Radial Lead Terminals.

DC Rated Voltage: Expressed in Volts (e.g. 63 = 63WVDC).

Series Name: Indicates Basic Capacitor Design.

LXA Standard Voltage Ratings - VB/Radial Lead

| Rated Voltage (WVDC) | Capacitance (µF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Maximum Impedance (Ω) at +20°C, 100kHz | Maximum Ripple Current (mA rms) at +105°C, 10kHz |
|----------------------------|--------------------|---------------------|-------------------------------|--|--|
| 10 Volts 13 Volts Surge | 47 | LXA10VB47RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 100 | LXA10VB101M6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 220 | LXA10VB221M8X14LL | 8 × 14 | 0.90 | 210 |
| | 330 | LXA10VB331M10X16LL | 10 × 16 | 0.42 | 370 |
| | 470 | LXA10VB471M10X16LL | 10 × 16 | 0.42 | 370 |
| | 1,000 | LXA10VB102M12X20LL | 12.5 × 20 | 0.16 | 720 |
| | 2,200 | LXA10VB222M16X25LL | 16 × 25 | 0.08 | 1,220 |
| | 3,300 | LXA10VB332M16X31LL | 16 × 31.5 | 0.07 | 1,400 |
| 4,700 | LXA10VB472M16X35LL | 16 × 35.5 | 0.06 | 1,550 | |

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

LXA/LX Series

LXA Standard Voltage Ratings - VB/Radial Lead

| Rated Voltage (VVDC) | Capacitance (µF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Maximum Impedance (Ω) at +20°C, 100kHz | Maximum Ripple Current (mA rms) at +105°C, 10kHz |
|----------------------|------------------|---------------------|-------------------------------|--|--|
|----------------------|------------------|---------------------|-------------------------------|--|--|

| | | | | | |
|-----------------------------------|--------------------|--------------------|-----------|-------|-------|
| 16 Volts 20 Volts Surge | 33 | LXA16VB33RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 47 | LXA16VB47RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 100 | LXA16VB101M6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 220 | LXA16VB221M8X14LL | 8 × 14 | 0.90 | 210 |
| | 330 | LXA16VB331M10X16LL | 10 × 16 | 0.42 | 370 |
| | 470 | LXA16VB471M10X20LL | 10 × 20 | 0.28 | 490 |
| | 1,000 | LXA16VB102M12X25LL | 12.5 × 25 | 0.13 | 780 |
| | 2,200 | LXA16VB222M16X25LL | 16 × 25 | 0.08 | 1,220 |
| | 3,300 | LXA16VB332M16X35LL | 16 × 35.5 | 0.06 | 1,550 |
| 4,700 | LXA16VB472M18X35LL | 18 × 35.5 | 0.055 | 1,690 | |

| | | | | | |
|-----------------------------------|--------------------|--------------------|-----------|-------|-------|
| 25 Volts 32 Volts Surge | 22 | LXA25VB22RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 33 | LXA25VB33RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 47 | LXA25VB47RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 100 | LXA25VB101M8X14LL | 8 × 14 | 0.90 | 210 |
| | 220 | LXA25VB221M10X16LL | 10 × 16 | 0.42 | 370 |
| | 330 | LXA25VB331M10X20LL | 10 × 20 | 0.28 | 490 |
| | 470 | LXA25VB471M12X20LL | 12.5 × 20 | 0.16 | 720 |
| | 1,000 | LXA25VB102M16X25LL | 16 × 25 | 0.08 | 1,220 |
| | 2,200 | LXA25VB222M16X35LL | 16 × 35.5 | 0.06 | 1,550 |
| 3,300 | LXA25VB332M18X40LL | 18 × 40 | 0.05 | 1,800 | |

| | | | | | |
|-----------------------------------|--------------------|--------------------|-----------|-------|-------|
| 35 Volts 44 Volts Surge | 4.7 | LXA35VB47RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 10 | LXA35VB10RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 22 | LXA35VB22RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 33 | LXA35VB33RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 47 | LXA35VB47RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 100 | LXA35VB101M8X14LL | 8 × 14 | 0.90 | 210 |
| | 220 | LXA35VB221M10X20LL | 10 × 20 | 0.28 | 490 |
| | 330 | LXA35VB331M12X20LL | 12.5 × 20 | 0.16 | 720 |
| | 470 | LXA35VB471M12X20LL | 12.5 × 20 | 0.16 | 720 |
| | 1,000 | LXA35VB102M16X25LL | 16 × 25 | 0.08 | 1,220 |
| 2,200 | LXA35VB222M18X35LL | 18 × 35.5 | 0.055 | 1,690 | |

| | | | | | |
|-----------------------------------|--------------------|--------------------|-----------|-------|-------|
| 50 Volts 63 Volts Surge | 0.47 | LXA50VBR47M6X14LL | 6.3 × 14 | 4.50 | 140 |
| | 1.0 | LXA50VB1R0M6X14LL | 6.3 × 14 | 2.60 | 140 |
| | 2.2 | LXA50VB2R2M6X14LL | 6.3 × 14 | 1.80 | 140 |
| | 3.3 | LXA50VB3R3M6X14LL | 6.3 × 14 | 1.80 | 140 |
| | 4.7 | LXA50VB4R7M6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 10 | LXA50VB10RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 22 | LXA50VB22RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 33 | LXA50VB33RM8X14LL | 8 × 14 | 0.90 | 210 |
| | 47 | LXA50VB47RM8X14LL | 8 × 14 | 0.90 | 210 |
| | 100 | LXA50VB101M10X16LL | 10 × 16 | 0.55 | 320 |
| | 220 | LXA50VB221M12X20LL | 12.5 × 20 | 0.20 | 640 |
| | 330 | LXA50VB331M12X20LL | 12.5 × 20 | 0.20 | 640 |
| | 470 | LXA50VB471M16X25LL | 16 × 25 | 0.09 | 1,150 |
| 1,000 | LXA50VB102M16X31LL | 16 × 31.5 | 0.07 | 1,400 | |

| | | | | | |
|-----------------------------------|-------|--------------------|-----------|-------|-------|
| 63 Volts 79 Volts Surge | 4.7 | LXA63VB47RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 10 | LXA63VB10RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 22 | LXA63VB22RM6X14LL | 6.3 × 14 | 1.65 | 140 |
| | 33 | LXA63VB33RM8X14LL | 8 × 14 | 0.90 | 210 |
| | 47 | LXA63VB47RM8X14LL | 8 × 14 | 0.90 | 210 |
| | 100 | LXA63VB101M10X20LL | 10 × 20 | 0.37 | 420 |
| | 220 | LXA63VB221M12X20LL | 12.5 × 20 | 0.20 | 640 |
| | 330 | LXA63VB331M12X25LL | 12.5 × 25 | 0.16 | 720 |
| | 470 | LXA63VB471M16X25LL | 16 × 25 | 0.09 | 1,150 |
| | 1,000 | LXA63VB102M18X35LL | 18 × 35.5 | 0.055 | 1,690 |

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

LXA/LX
MINIATURE - 105°C

LXA/LX Series

LX Standard Voltage Ratings - VB/Radial Lead

| Rated Voltage (WVDC) | Capacitance (μF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Maximum Impedance (Ω) at | | Maximum Ripple Current (mA rms) at +105°C, 10kHz |
|-------------------------------------|--------------------|---------------------|-------------------------------|--------------------------|---------------|--|
| | | | | +20°C, 100kHz | -10°C, 100kHz | |
| 100 Volts 125 Volts Surge | 0.47 | LX100VBR47M8X14LL | 8 × 14 | 35.0 | 105.0 | 30 |
| | 1.0 | LX100VB1R0M8X14LL | 8 × 14 | 18.0 | 54.0 | 50 |
| | 2.2 | LX100VB2R2M8X14LL | 8 × 14 | 9.62 | 28.8 | 60 |
| | 3.3 | LX100VB3R3M8X14LL | 8 × 14 | 8.57 | 25.7 | 70 |
| | 4.7 | LX100VB4R7M8X14LL | 8 × 14 | 6.43 | 19.3 | 80 |
| | 10 | LX100VB10RM10X20LL | 10 × 20 | 2.99 | 8.97 | 230 |
| | 22 | LX100VB22RM12X20LL | 12.5 × 20 | 1.47 | 4.41 | 250 |
| | 33 | LX100VB33RM12X25LL | 12.5 × 25 | 1.00 | 3.00 | 330 |
| 47 | LX100VB47RM16X25LL | 16 × 25 | 0.69 | 2.07 | 440 | |
| 160 Volts 200 Volts Surge | 10 | LX160VB10RM12X20LL | 12.5 × 20 | 3.5 | 10.0 | 130 |
| | 22 | LX160VB22RM16X25LL | 16 × 25 | 1.8 | 4.8 | 250 |
| | 33 | LX160VB33RM16X25LL | 16 × 25 | 1.7 | 4.5 | 320 |
| | 47 | LX160VB47RM16X31LL | 16 × 31.5 | 1.1 | 2.9 | 400 |
| | 68 | LX160VB68RM18X35LL | 18 × 35.5 | 0.9 | 1.9 | 510 |
| 200 Volts 250 Volts Surge | 1.0 | LX200VB1R0M10X16LL | 10 × 16 | 18.0 | 70.0 | 30 |
| | 2.2 | LX200VB2R2M10X16LL | 10 × 16 | 16.0 | 65.0 | 40 |
| | 3.3 | LX200VB3R3M10X16LL | 10 × 16 | 9.2 | 32.0 | 50 |
| | 4.7 | LX200VB4R7M10X20LL | 10 × 20 | 4.7 | 14.0 | 80 |
| | 10 | LX200VB10RM12X20LL | 12.5 × 20 | 2.6 | 7.6 | 140 |
| | 22 | LX200VB22RM16X25LL | 16 × 25 | 1.9 | 5.0 | 250 |
| | 33 | LX200VB33RM16X31LL | 16 × 31.5 | 1.2 | 3.0 | 330 |
| | 47 | LX200VB47RM18X35LL | 18 × 35.5 | 1.0 | 2.5 | 430 |
| 68 | LX200VB68RM18X40LL | 18 × 40 | 0.7 | 1.8 | 520 | |
| 250 Volts 300 Volts Surge | 1.0 | LX250VB1R0M10X16LL | 10 × 16 | 20.0 | 80.0 | 30 |
| | 2.2 | LX250VB2R2M10X16LL | 10 × 16 | 18.0 | 70.0 | 40 |
| | 3.3 | LX250VB3R3M10X20LL | 10 × 20 | 9.0 | 27.0 | 60 |
| | 4.7 | LX250VB4R7M12X20LL | 12.5 × 20 | 5.0 | 15.0 | 90 |
| | 10 | LX250VB10RM12X25LL | 12.5 × 25 | 2.5 | 7.0 | 150 |
| | 22 | LX250VB22RM16X31LL | 16 × 31.5 | 1.8 | 4.8 | 260 |
| | 33 | LX250VB33RM16X35LL | 16 × 35.5 | 1.0 | 2.8 | 340 |
| 47 | LX250VB47RM18X40LL | 18 × 40 | 0.8 | 2.0 | 440 | |

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

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