

# LXV Series

- Low impedance
- Endurance with ripple current : 2,000 to 5,000 hours at 105°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

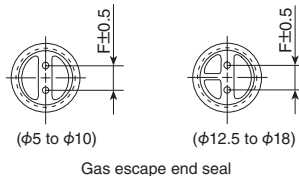
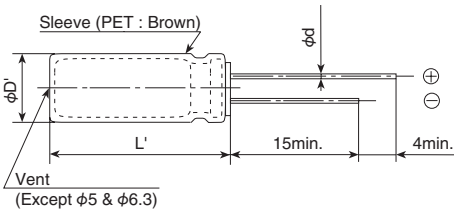


## SPECIFICATIONS

| Items                           | Characteristics   |   |
|---------------------------------|---|---|
| Category                        | -55 to +105°C   |   |
| Temperature Range               | -55 to +105°C   |   |
| Rated Voltage Range             | 6.3 to 100V <sub>ac</sub>   |   |
| Capacitance Tolerance           | ±20% (M) (at 20°C, 120Hz)   |   |
| Leakage Current                 | I=0.01CV or 3μA, whichever is greater.<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)   |   |
| Dissipation Factor (tan δ)      | Rated voltage (V <sub>ac</sub> )  | 6.3V 10V 16V 25V 35V 50V 63V 80V 100V                                   |
|                                 | tan δ (Max.)  | 0.22 0.19 0.16 0.14 0.12 0.10 0.10 0.09 0.08                            |
|                                 | When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)   |   |
| Low Temperature Characteristics | Capacitance change ΔC (-55°C /+20°C)  | 0.7min.   |
|                                 | Max. impedance ratio (-55°C /+20°C)   | 3max.(6.3V <sub>ac</sub> : 4max.) (at 120Hz)                            |
| Endurance                       | The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.                        |   |
|                                 | Time  | φ 5 to 6.3 : 2,000hours φ 8 & 10: 3,000hours φ 12.5 to φ 18: 5,000hours |
|                                 | Capacitance change  | ≤ ±20% of the initial value   |
|                                 | D.F. (tan δ)  | ≤200% of the initial specified value                                    |
|                                 | Leakage current   | ≤The 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. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. |   |
|                                 | Capacitance change  | ≤ ±20% of the initial value   |
|                                 | D.F. (tan δ)  | ≤200% of the initial specified value                                    |
|                                 | Leakage current   | ≤The initial specified value  |

## DIMENSIONS [mm]

- Terminal Code : E



| φD  | 5          | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
|-----|------------|-----|-----|-----|------|-----|-----|
| φd  | 0.5        | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 | 0.8 |
| F   | 2.0        | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 |
| φD' | φD+0.5max. |     |     |     |      |     |     |
| L'  | L+1.5max.  |     |     |     |      |     |     |

## PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

◆ STANDARD RATINGS

| WV (Vdc) | Cap (µF) | Case size φD×L(mm) | Impedance (Ω max./100kHz) |       | Rated ripple current (mA rms/105°C, 100kHz) | Part No.           | WV (Vdc)           | Cap (µF) | Case size φD×L(mm) | Impedance (Ω max./100kHz) |                    | Rated ripple current (mA rms/105°C, 100kHz) | Part No.           |
|----------|----------|--------------------|---------------------------|-------|---|--------------------|--------------------|----------|--------------------|---------------------------|--------------------|---|--------------------|
|          |          |                    | 20°C                      | -10°C |   |                    |                    |          |                    | 20°C                      | -10°C              |   |                    |
| 6.3      | 120      | 5×11.5             | 0.72                      | 1.8   | 165   | ELXV6R3E□□121MEB5D | 16                 | 2,700    | 12.5×35            | 0.027                     | 0.068              | 2,230                                       | ELXV160E□□272MK35S |
|          | 220      | 6.3×11.5           | 0.38                      | 0.95  | 255   | ELXV6R3E□□221MFB5D |                    | 2,700    | 16×25              | 0.028                     | 0.070              | 2,190                                       | ELXV160E□□272ML25S |
|          | 330      | 6.3×15             | 0.27                      | 0.68  | 330   | ELXV6R3E□□331MF15D |                    | 3,300    | 12.5×40            | 0.024                     | 0.060              | 2,460                                       | ELXV160E□□332MK40S |
|          | 390      | 8×12               | 0.20                      | 0.50  | 415   | ELXV6R3E□□391MH12D |                    | 3,300    | 18×20              | 0.036                     | 0.090              | 1,940                                       | ELXV160E□□332MM20S |
|          | 470      | 10×12.5            | 0.12                      | 0.30  | 635   | ELXV6R3E□□471MJC5S |                    | 3,900    | 16×30              | 0.025                     | 0.063              | 2,510                                       | ELXV160E□□392ML30S |
|          | 560      | 8×15               | 0.16                      | 0.40  | 495   | ELXV6R3E□□561MH15D |                    | 3,900    | 18×25              | 0.027                     | 0.068              | 2,350                                       | ELXV160E□□392MM25S |
|          | 680      | 10×16              | 0.084                     | 0.21  | 825   | ELXV6R3E□□681MJ16S |                    | 4,700    | 16×35              | 0.022                     | 0.055              | 2,770                                       | ELXV160E□□472ML35S |
|          | 820      | 8×20               | 0.11                      | 0.28  | 640   | ELXV6R3E□□821MH20D |                    | 4,700    | 18×30              | 0.024                     | 0.060              | 2,720                                       | ELXV160E□□472MM30S |
|          | 1,200    | 10×20              | 0.062                     | 0.16  | 1,060                                       | ELXV6R3E□□122MJ20S |                    | 5,600    | 16×40              | 0.018                     | 0.045              | 3,110                                       | ELXV160E□□562ML40S |
|          | 1,500    | 10×25              | 0.052                     | 0.13  | 1,260                                       | ELXV6R3E□□152MJ25S |                    | 6,800    | 18×35              | 0.021                     | 0.053              | 3,050                                       | ELXV160E□□682MM35S |
|          | 2,200    | 10×30              | 0.044                     | 0.11  | 1,450                                       | ELXV6R3E□□222MJ30S |                    | 8,200    | 18×40              | 0.017                     | 0.043              | 3,300                                       | ELXV160E□□822MM40S |
|          | 2,200    | 12.5×20            | 0.046                     | 0.12  | 1,360                                       | ELXV6R3E□□222MK20S |                    | 39       | 5×11.5             | 0.72                      | 1.8                | 165   | ELXV250E□□390MEB5D |
|          | 2,700    | 12.5×25            | 0.034                     | 0.085 | 1,700                                       | ELXV6R3E□□272MK25S |                    | 82       | 6.3×11.5           | 0.38                      | 0.95               | 255   | ELXV250E□□820MFB5D |
|          | 3,900    | 12.5×30            | 0.030                     | 0.075 | 1,980                                       | ELXV6R3E□□392MK30S |                    | 120      | 6.3×15             | 0.27                      | 0.68               | 330   | ELXV250E□□121MF15D |
|          | 3,900    | 16×20              | 0.038                     | 0.095 | 1,770                                       | ELXV6R3E□□392ML20S |                    | 150      | 8×12               | 0.20                      | 0.50               | 415   | ELXV250E□□332ML12D |
|          | 4,700    | 12.5×35            | 0.027                     | 0.068 | 2,230                                       | ELXV6R3E□□472MK35S |                    | 180      | 10×12.5            | 0.12                      | 0.30               | 635   | ELXV250E□□181MJC5S |
|          | 5,600    | 12.5×40            | 0.024                     | 0.060 | 2,460                                       | ELXV6R3E□□562MK40S |                    | 220      | 8×15               | 0.16                      | 0.40               | 495   | ELXV250E□□221MH15D |
|          | 5,600    | 16×25              | 0.028                     | 0.070 | 2,190                                       | ELXV6R3E□□562ML25S |                    | 330      | 8×20               | 0.11                      | 0.28               | 640   | ELXV250E□□331MH20D |
|          | 5,600    | 18×20              | 0.036                     | 0.090 | 1,940                                       | ELXV6R3E□□562MM20S |                    | 330      | 10×16              | 0.084                     | 0.21               | 825   | ELXV250E□□331MJ16S |
|          | 6,800    | 16×30              | 0.025                     | 0.063 | 2,510                                       | ELXV6R3E□□682ML30S |                    | 470      | 10×20              | 0.062                     | 0.16               | 1,060                                       | ELXV250E□□471MJ20S |
|          | 6,800    | 18×25              | 0.027                     | 0.068 | 2,350                                       | ELXV6R3E□□682MM25S |                    | 560      | 10×25              | 0.052                     | 0.13               | 1,260                                       | ELXV250E□□561MJ25S |
|          | 8,200    | 16×35              | 0.022                     | 0.055 | 2,770                                       | ELXV6R3E□□822ML35S |                    | 820      | 10×30              | 0.044                     | 0.11               | 1,450                                       | ELXV250E□□821MJ30S |
|          | 10,000   | 16×40              | 0.018                     | 0.045 | 3,110                                       | ELXV6R3E□□103ML40S |                    | 820      | 12.5×20            | 0.046                     | 0.12               | 1,360                                       | ELXV250E□□821MK20S |
| 10,000   | 18×30    | 0.024              | 0.060                     | 2,720 | ELXV6R3E□□103MM30S                          | 1,000              | 12.5×25            | 0.034    | 0.085              | 1,700                     | ELXV250E□□102MK25S |   |                    |
| 12,000   | 18×35    | 0.021              | 0.053                     | 3,050 | ELXV6R3E□□123MM35S                          | 1,500              | 12.5×30            | 0.030    | 0.075              | 1,980                     | ELXV250E□□152MK30S |   |                    |
| 15,000   | 18×40    | 0.017              | 0.043                     | 3,300 | ELXV6R3E□□153MM40S                          | 1,500              | 16×20              | 0.038    | 0.095              | 1,770                     | ELXV250E□□152ML20S |   |                    |
| 10       | 82       | 5×11.5             | 0.72                      | 1.8   | 165   | ELXV100E□□820MEB5D | 1,800              | 12.5×35  | 0.027              | 0.068                     | 2,230              | ELXV250E□□182MK35S                          |                    |
|          | 180      | 6.3×11.5           | 0.38                      | 0.95  | 255   | ELXV100E□□181MFB5D | 1,800              | 16×25    | 0.028              | 0.070                     | 2,190              | ELXV250E□□182ML25S                          |                    |
|          | 270      | 6.3×15             | 0.27                      | 0.68  | 330   | ELXV100E□□271MF15D | 2,200              | 12.5×40  | 0.024              | 0.060                     | 2,460              | ELXV250E□□222MK40S                          |                    |
|          | 330      | 8×12               | 0.20                      | 0.50  | 415   | ELXV100E□□331MH12D | 2,200              | 18×20    | 0.036              | 0.090                     | 1,940              | ELXV250E□□222MM20S                          |                    |
|          | 390      | 10×12.5            | 0.12                      | 0.30  | 635   | ELXV100E□□391MJC5S | 2,700              | 16×30    | 0.025              | 0.063                     | 2,510              | ELXV250E□□272ML30S                          |                    |
|          | 470      | 8×15               | 0.16                      | 0.40  | 495   | ELXV100E□□471MH15D | 2,700              | 18×25    | 0.027              | 0.068                     | 2,350              | ELXV250E□□272MM25S                          |                    |
|          | 680      | 8×20               | 0.11                      | 0.28  | 640   | ELXV100E□□681MH20D | 3,300              | 16×35    | 0.022              | 0.055                     | 2,770              | ELXV250E□□332ML35S                          |                    |
|          | 680      | 10×16              | 0.084                     | 0.21  | 825   | ELXV100E□□681MJ16S | 3,300              | 18×30    | 0.024              | 0.060                     | 2,720              | ELXV250E□□332MM30S                          |                    |
|          | 1,000    | 10×20              | 0.062                     | 0.16  | 1,060                                       | ELXV100E□□102MJ20S | 3,900              | 16×40    | 0.018              | 0.045                     | 3,110              | ELXV250E□□392ML40S                          |                    |
|          | 1,200    | 10×25              | 0.052                     | 0.13  | 1,260                                       | ELXV100E□□122MJ25S | 3,900              | 18×35    | 0.021              | 0.053                     | 3,050              | ELXV250E□□392MM35S                          |                    |
|          | 1,500    | 10×30              | 0.044                     | 0.11  | 1,450                                       | ELXV100E□□152MJ30S | 4,700              | 18×40    | 0.017              | 0.043                     | 3,300              | ELXV250E□□472MM40S                          |                    |
|          | 1,800    | 12.5×20            | 0.046                     | 0.12  | 1,360                                       | ELXV100E□□182MK20S | 27                 | 5×11.5   | 0.72               | 1.8                       | 165                | ELXV350E□□270MEB5D                          |                    |
|          | 2,200    | 12.5×25            | 0.034                     | 0.085 | 1,700                                       | ELXV100E□□222MK25S | 56                 | 6.3×11.5 | 0.38               | 0.95                      | 255                | ELXV350E□□560MFB5D                          |                    |
|          | 2,700    | 12.5×30            | 0.030                     | 0.075 | 1,980                                       | ELXV100E□□272MK30S | 82                 | 6.3×15   | 0.27               | 0.68                      | 330                | ELXV350E□□820MF15D                          |                    |
|          | 3,300    | 12.5×35            | 0.027                     | 0.068 | 2,230                                       | ELXV100E□□332MK35S | 120                | 8×12     | 0.20               | 0.50                      | 415                | ELXV350E□□121MH12D                          |                    |
|          | 3,300    | 16×20              | 0.038                     | 0.095 | 1,770                                       | ELXV100E□□332ML20S | 120                | 10×12.5  | 0.12               | 0.30                      | 635                | ELXV350E□□121MJC5S                          |                    |
|          | 3,900    | 12.5×40            | 0.024                     | 0.060 | 2,460                                       | ELXV100E□□392MK40S | 180                | 8×15     | 0.16               | 0.40                      | 495                | ELXV350E□□181MH15D                          |                    |
|          | 3,900    | 16×25              | 0.028                     | 0.070 | 2,190                                       | ELXV100E□□392ML25S | 220                | 8×20     | 0.11               | 0.28                      | 640                | ELXV350E□□221MH20D                          |                    |
|          | 3,900    | 18×20              | 0.036                     | 0.090 | 1,940                                       | ELXV100E□□392MM20S | 220                | 10×16    | 0.084              | 0.21                      | 825                | ELXV350E□□221MJ16S                          |                    |
|          | 4,700    | 18×25              | 0.027                     | 0.068 | 2,350                                       | ELXV100E□□472MM25S | 330                | 10×20    | 0.062              | 0.16                      | 1,060              | ELXV350E□□331MJ20S                          |                    |
|          | 5,600    | 16×30              | 0.025                     | 0.063 | 2,510                                       | ELXV100E□□562ML30S | 390                | 10×25    | 0.052              | 0.13                      | 1,260              | ELXV350E□□391MJ25S                          |                    |
|          | 6,800    | 16×35              | 0.022                     | 0.055 | 2,770                                       | ELXV100E□□682ML35S | 560                | 10×30    | 0.044              | 0.11                      | 1,450              | ELXV350E□□821MJ30S                          |                    |
|          | 6,800    | 18×30              | 0.024                     | 0.060 | 2,720                                       | ELXV100E□□682MM30S | 560                | 12.5×20  | 0.046              | 0.12                      | 1,360              | ELXV350E□□561MK20S                          |                    |
| 8,200    | 16×40    | 0.018              | 0.045                     | 3,110 | ELXV100E□□822ML40S                          | 680                | 12.5×25            | 0.034    | 0.085              | 1,700                     | ELXV350E□□681MK25S |   |                    |
| 8,200    | 18×35    | 0.021              | 0.053                     | 3,050 | ELXV100E□□822MM35S                          | 1,000              | 12.5×30            | 0.030    | 0.075              | 1,980                     | ELXV350E□□102MK30S |   |                    |
| 10,000   | 18×40    | 0.017              | 0.043                     | 3,300 | ELXV100E□□103MM40S                          | 1,000              | 16×20              | 0.038    | 0.095              | 1,770                     | ELXV350E□□102ML20S |   |                    |
| 16       | 56       | 5×11.5             | 0.72                      | 1.8   | 165   | ELXV160E□□560MEB5D | 1,200              | 12.5×35  | 0.027              | 0.068                     | 2,230              | ELXV350E□□122MK35S                          |                    |
|          | 120      | 6.3×11.5           | 0.38                      | 0.95  | 255   | ELXV160E□□121MFB5D | 1,200              | 16×25    | 0.028              | 0.070                     | 2,190              | ELXV350E□□122ML25S                          |                    |
|          | 180      | 6.3×15             | 0.27                      | 0.68  | 330   | ELXV160E□□181MF15D | 1,500              | 12.5×40  | 0.024              | 0.060                     | 2,460              | ELXV350E□□152MK40S                          |                    |
|          | 270      | 8×12               | 0.20                      | 0.50  | 415   | ELXV160E□□271MH12D | 1,500              | 18×20    | 0.036              | 0.090                     | 1,940              | ELXV350E□□152MM20S                          |                    |
|          | 270      | 10×12.5            | 0.12                      | 0.30  | 635   | ELXV160E□□271MJC5S | 1,800              | 16×30    | 0.025              | 0.063                     | 2,510              | ELXV350E□□182ML30S                          |                    |
|          | 330      | 8×15               | 0.16                      | 0.40  | 495   | ELXV160E□□331MH15D | 1,800              | 18×25    | 0.027              | 0.068                     | 2,350              | ELXV350E□□182MM25S                          |                    |
|          | 470      | 8×20               | 0.11                      | 0.28  | 640   | ELXV160E□□471MH20D | 2,200              | 16×35    | 0.022              | 0.055                     | 2,770              | ELXV350E□□222ML35S                          |                    |
|          | 470      | 10×16              | 0.084                     | 0.21  | 825   | ELXV160E□□471MJ16S | 2,200              | 18×30    | 0.024              | 0.060                     | 2,720              | ELXV350E□□222MM30S                          |                    |
|          | 680      | 10×20              | 0.062                     | 0.16  | 1,060                                       | ELXV160E□□681MJ20S | 2,700              | 16×40    | 0.018              | 0.045                     | 3,110              | ELXV350E□□272ML40S                          |                    |
|          | 820      | 10×25              | 0.052                     | 0.13  | 1,260                                       | ELXV160E□□821MJ25S | 2,700              | 18×35    | 0.021              | 0.053                     | 3,050              | ELXV350E□□272MM35S                          |                    |
|          | 1,200    | 10×30              | 0.044                     | 0.11  | 1,450                                       | ELXV160E□□122MJ30S | 3,300              | 18×40    | 0.017              | 0.043                     | 3,300              | ELXV350E□□332MM40S                          |                    |
|          | 1,200    | 12.5×20            | 0.046                     | 0.12  | 1,360                                       | ELXV160E□□122MK20S | 18                 | 5×11.5   | 1.1                | 3.3                       | 165                | ELXV500E□□180MEB5D                          |                    |
|          | 1,500    | 12.5×25            | 0.034                     | 0.085 | 1,700                                       | ELXV160E□□152MK25S | 39                 | 6.3×11.5 | 0.56               | 1.6                       | 255                | ELXV500E□□390MFB5D                          |                    |
|          | 2,200    | 12.5×30            | 0.030                     | 0.075 | 1,980                                       | ELXV160E□□222MK30S | 56                 | 6.3×15   | 0.41               | 1.2                       | 310                | ELXV500E□□560MF15D                          |                    |
|          | 2,200    | 16×20              | 0.038                     | 0.095 | 1,770                                       | ELXV160E□□222ML20S | 68                 | 8×12     | 0.29               | 0.84                      | 415                | ELXV500E□□680MH12D                          |                    |
|          | 50       | 18                 | 5×11.5                    | 1.1   | 3.3   | 165                | ELXV500E□□180MEB5D |          |                    |                           |                    |   |                    |
|          |          | 39                 | 6.3×11.5                  | 0.56  | 1.6   | 255                | ELXV500E□□390MFB5D |          |                    |                           |                    |   |                    |
|          |          | 56                 | 6.3×15                    | 0.41  | 1.2   | 310                | ELXV500E□□560MF15D |          |                    |                           |                    |   |                    |
|          |          | 68                 | 8×12                      | 0.29  | 0.84  | 415                | ELXV500E□□680MH12D |          |                    |                           |                    |   |                    |

□ □ : Enter the appropriate lead forming or taping code.

◆ STANDARD RATINGS

| WV (Vdc) | Cap (µF) | Case size ϕD×L(mm) | Impedance (Ω max./100kHz) |       | Rated ripple current (mA rms/105°C, 100kHz) | Part No.           | WV (Vdc) | Cap (µF) | Case size ϕD×L(mm) | Impedance (Ω max./100kHz) |                    | Rated ripple current (mA rms/105°C, 100kHz) | Part No.           |
|----------|----------|--------------------|---------------------------|-------|---|--------------------|----------|----------|--------------------|---------------------------|--------------------|---|--------------------|
|          |          |                    | 20°C                      | -10°C |   |                    |          |          |                    | 20°C                      | -10°C              |   |                    |
| 50       | 82       | 8×15               | 0.24                      | 0.72  | 505   | ELXV500E□□820MH15D | 80       | 27       | 6.3×15             | 0.62                      | 1.7                | 220   | ELXV800E□□270MF15D |
|          | 82       | 10×12.5            | 0.16                      | 0.40  | 530   | ELXV500E□□820MJC5S |          | 33       | 8×12               | 0.53                      | 1.5                | 275   | ELXV800E□□330MH12D |
|          | 120      | 8×20               | 0.18                      | 0.52  | 610   | ELXV500E□□121MH20D |          | 39       | 10×12.5            | 0.47                      | 1.3                | 380   | ELXV800E□□390MJC5S |
|          | 120      | 10×16              | 0.12                      | 0.30  | 755   | ELXV500E□□121MJ16S |          | 47       | 8×15               | 0.35                      | 0.97               | 360   | ELXV800E□□470MH15D |
|          | 180      | 10×20              | 0.088                     | 0.22  | 945   | ELXV500E□□181MJ20S |          | 56       | 8×20               | 0.27                      | 0.74               | 490   | ELXV800E□□560MH20D |
|          | 220      | 10×25              | 0.068                     | 0.17  | 1,150                                       | ELXV500E□□221MJ25S |          | 56       | 10×16              | 0.33                      | 0.90               | 500   | ELXV800E□□560MJ16S |
|          | 330      | 10×30              | 0.059                     | 0.15  | 1,260                                       | ELXV500E□□331MJ30S |          | 82       | 10×20              | 0.26                      | 0.70               | 620   | ELXV800E□□820MK20S |
|          | 330      | 12.5×20            | 0.059                     | 0.15  | 1,190                                       | ELXV500E□□331MK20S |          | 100      | 10×25              | 0.19                      | 0.52               | 795   | ELXV800E□□101MJ25S |
|          | 470      | 12.5×25            | 0.045                     | 0.11  | 1,500                                       | ELXV500E□□471MK25S |          | 150      | 10×30              | 0.15                      | 0.41               | 955   | ELXV800E□□151MJ30S |
|          | 560      | 12.5×30            | 0.039                     | 0.098 | 1,720                                       | ELXV500E□□561MK30S |          | 150      | 12.5×20            | 0.15                      | 0.41               | 890   | ELXV800E□□151MK20S |
|          | 680      | 12.5×35            | 0.033                     | 0.083 | 1,900                                       | ELXV500E□□681MK35S |          | 180      | 12.5×25            | 0.11                      | 0.30               | 1,040                                       | ELXV800E□□181MK25S |
|          | 680      | 16×20              | 0.043                     | 0.11  | 1,500                                       | ELXV500E□□681ML20S |          | 270      | 12.5×30            | 0.094                     | 0.26               | 1,270                                       | ELXV800E□□271MK30S |
|          | 820      | 12.5×40            | 0.029                     | 0.073 | 2,120                                       | ELXV500E□□821MK40S |          | 270      | 16×20              | 0.11                      | 0.30               | 1,240                                       | ELXV800E□□271ML20S |
|          | 820      | 16×25              | 0.033                     | 0.083 | 1,880                                       | ELXV500E□□821ML25S |          | 330      | 12.5×35            | 0.087                     | 0.24               | 1,450                                       | ELXV800E□□331MK35S |
|          | 820      | 18×20              | 0.039                     | 0.098 | 1,660                                       | ELXV500E□□821MM20S |          | 330      | 16×25              | 0.081                     | 0.22               | 1,440                                       | ELXV800E□□331ML25S |
|          | 1,000    | 16×30              | 0.029                     | 0.073 | 2,150                                       | ELXV500E□□102ML30S |          | 390      | 12.5×40            | 0.060                     | 0.17               | 1,610                                       | ELXV800E□□391MK40S |
|          | 1,000    | 18×25              | 0.030                     | 0.075 | 2,020                                       | ELXV500E□□102MM25S |          | 390      | 18×20              | 0.085                     | 0.23               | 1,450                                       | ELXV800E□□391MM20S |
|          | 1,200    | 16×35              | 0.025                     | 0.063 | 2,320                                       | ELXV500E□□122ML35S |          | 470      | 16×30              | 0.058                     | 0.16               | 1,790                                       | ELXV800E□□471ML30S |
|          | 1,500    | 16×40              | 0.021                     | 0.053 | 2,650                                       | ELXV500E□□152ML40S |          | 470      | 18×25              | 0.070                     | 0.19               | 1,650                                       | ELXV800E□□471MM25S |
|          | 1,500    | 18×30              | 0.026                     | 0.065 | 2,340                                       | ELXV500E□□152MM30S |          | 560      | 16×35              | 0.052                     | 0.14               | 2,000                                       | ELXV800E□□561ML35S |
| 1,800    | 18×35    | 0.023              | 0.058                     | 2,620 | ELXV500E□□182MM35S                          | 680                | 16×40    | 0.041    | 0.11               | 2,200                     | ELXV800E□□681ML40S |   |                    |
| 2,200    | 18×40    | 0.020              | 0.050                     | 2,790 | ELXV500E□□222MM40S                          | 680                | 18×30    | 0.058    | 0.16               | 1,850                     | ELXV800E□□681MM30S |   |                    |
| 63       | 12       | 5×11.5             | 1.9                       | 4.8   | 100   | ELXV630E□□120MEB5D | 100      | 5.6      | 5×11.5             | 1.9                       | 5.1                | 100   | ELXV101E□□5R6MEB5D |
|          | 27       | 6.3×11.5           | 1.1                       | 2.8   | 160   | ELXV630E□□270MFB5D |          | 12       | 6.3×11.5           | 1.1                       | 3.0                | 150   | ELXV101E□□120MFB5D |
|          | 39       | 6.3×15             | 0.62                      | 1.6   | 230   | ELXV630E□□390MF15D |          | 18       | 6.3×15             | 0.62                      | 1.7                | 220   | ELXV101E□□180MF15D |
|          | 47       | 8×12               | 0.49                      | 1.3   | 275   | ELXV630E□□470MH12D |          | 22       | 8×12               | 0.53                      | 1.5                | 275   | ELXV101E□□220MH12D |
|          | 56       | 10×12.5            | 0.27                      | 0.68  | 420   | ELXV630E□□560MJC5S |          | 27       | 10×12.5            | 0.47                      | 1.3                | 380   | ELXV101E□□270MJC5S |
|          | 68       | 8×15               | 0.34                      | 0.85  | 360   | ELXV630E□□680MH15D |          | 33       | 8×15               | 0.35                      | 0.97               | 360   | ELXV101E□□330MH15D |
|          | 68       | 10×16              | 0.21                      | 0.53  | 523   | ELXV630E□□680MJ16S |          | 33       | 10×16              | 0.33                      | 0.90               | 500   | ELXV101E□□330MJ16S |
|          | 82       | 8×20               | 0.21                      | 0.53  | 500   | ELXV630E□□820MH20D |          | 39       | 8×20               | 0.27                      | 0.74               | 490   | ELXV101E□□390MH20D |
|          | 120      | 10×20              | 0.16                      | 0.40  | 650   | ELXV630E□□121MJ20S |          | 56       | 10×20              | 0.26                      | 0.70               | 620   | ELXV101E□□560MJ20S |
|          | 150      | 10×25              | 0.13                      | 0.33  | 780   | ELXV630E□□151MJ25S |          | 68       | 10×25              | 0.19                      | 0.52               | 795   | ELXV101E□□680MJ25S |
|          | 180      | 10×30              | 0.10                      | 0.25  | 960   | ELXV630E□□181MJ30S |          | 100      | 10×30              | 0.15                      | 0.41               | 955   | ELXV101E□□101MJ30S |
|          | 220      | 12.5×20            | 0.11                      | 0.28  | 870   | ELXV630E□□221MK20S |          | 100      | 12.5×20            | 0.15                      | 0.41               | 890   | ELXV101E□□101MK20S |
|          | 270      | 12.5×25            | 0.074                     | 0.19  | 1,150                                       | ELXV630E□□271MK25S |          | 120      | 12.5×25            | 0.11                      | 0.30               | 1,040                                       | ELXV101E□□121MK25S |
|          | 390      | 12.5×30            | 0.068                     | 0.17  | 1,280                                       | ELXV630E□□391MK30S |          | 180      | 12.5×30            | 0.094                     | 0.26               | 1,270                                       | ELXV101E□□181MK30S |
|          | 390      | 16×20              | 0.085                     | 0.22  | 1,100                                       | ELXV630E□□391ML20S |          | 180      | 16×20              | 0.11                      | 0.30               | 1,240                                       | ELXV101E□□181ML20S |
|          | 470      | 12.5×35            | 0.063                     | 0.16  | 1,390                                       | ELXV630E□□471MK35S |          | 220      | 12.5×35            | 0.087                     | 0.24               | 1,450                                       | ELXV101E□□221MK35S |
|          | 470      | 16×25              | 0.055                     | 0.14  | 1,480                                       | ELXV630E□□471ML25S |          | 220      | 16×25              | 0.081                     | 0.22               | 1,440                                       | ELXV101E□□221ML25S |
|          | 560      | 12.5×40            | 0.051                     | 0.13  | 1,530                                       | ELXV630E□□561MK40S |          | 270      | 12.5×40            | 0.060                     | 0.17               | 1,610                                       | ELXV101E□□271MK40S |
|          | 560      | 18×20              | 0.085                     | 0.22  | 1,170                                       | ELXV630E□□561MM20S |          | 270      | 18×20              | 0.085                     | 0.23               | 1,450                                       | ELXV101E□□271MM20S |
|          | 680      | 16×30              | 0.046                     | 0.12  | 1,720                                       | ELXV630E□□681ML30S |          | 330      | 16×30              | 0.058                     | 0.16               | 1,790                                       | ELXV101E□□331ML30S |
| 680      | 18×25    | 0.055              | 0.14                      | 1,520 | ELXV630E□□681MM25S                          | 330                | 18×25    | 0.070    | 0.19               | 1,650                     | ELXV101E□□331MM25S |   |                    |
| 820      | 16×35    | 0.040              | 0.10                      | 1,910 | ELXV630E□□821ML35S                          | 390                | 16×35    | 0.052    | 0.14               | 2,000                     | ELXV101E□□391ML35S |   |                    |
| 820      | 18×30    | 0.046              | 0.12                      | 1,770 | ELXV630E□□821MM30S                          | 390                | 18×30    | 0.058    | 0.16               | 1,850                     | ELXV101E□□391MM30S |   |                    |
| 1,000    | 16×40    | 0.036              | 0.09                      | 2,070 | ELXV630E□□102ML40S                          | 470                | 16×40    | 0.041    | 0.11               | 2,200                     | ELXV101E□□471ML40S |   |                    |
| 1,000    | 18×35    | 0.040              | 0.10                      | 1,970 | ELXV630E□□102MM35S                          | 560                | 18×35    | 0.052    | 0.14               | 1,990                     | ELXV101E□□561MM35S |   |                    |
| 1,200    | 18×40    | 0.036              | 0.09                      | 2,130 | ELXV630E□□122MM40S                          | 680                | 18×40    | 0.041    | 0.11               | 2,370                     | ELXV101E□□681MM40S |   |                    |
| 80       | 8.2      | 5×11.5             | 1.9                       | 5.1   | 100   | ELXV800E□□8R2MEB5D |          |          |                    |                           |                    |   |                    |
|          | 18       | 6.3×11.5           | 1.1                       | 3.0   | 150   | ELXV800E□□180MFB5D |          |          |                    |                           |                    |   |                    |

□□ : Enter the appropriate lead forming or taping code.

◆ RATED RIPLE CURRENT MULTIPLIERS

● Frequency Multipliers

| Rated voltage (Vdc) | Case size ϕD (mm) | Frequency (Hz) |      |      |      | Rated voltage (Vdc) | Case size ϕD (mm) | Frequency (Hz) |      |      |      |
|---------------------|-------------------|----------------|------|------|------|---------------------|-------------------|----------------|------|------|------|
|                     |                   | 120            | 1k   | 10k  | 100k |                     |                   | 120            | 1k   | 10k  | 100k |
| 6.3 & 10            | 5 to 8            | 0.65           | 0.83 | 0.95 | 1.00 | 35 & 50             | 5 to 8            | 0.40           | 0.66 | 0.85 | 1.00 |
|                     | 10 & 12.5         | 0.70           | 0.85 | 0.96 | 1.00 |                     | 10 & 12.5         | 0.50           | 0.73 | 0.89 | 1.00 |
|                     | 16 & 18           | 0.85           | 0.92 | 0.97 | 1.00 |                     | 16 & 18           | 0.60           | 0.81 | 0.94 | 1.00 |
| 16 & 25             | 5 to 8            | 0.55           | 0.76 | 0.91 | 1.00 | 63 to 100           | 5 to 8            | 0.20           | 0.55 | 0.80 | 1.00 |
|                     | 10 & 12.5         | 0.65           | 0.83 | 0.93 | 1.00 |                     | 10 & 12.5         | 0.35           | 0.65 | 0.85 | 1.00 |
|                     | 16 & 18           | 0.70           | 0.87 | 0.96 | 1.00 |                     | 16 & 18           | 0.50           | 0.75 | 0.90 | 1.00 |

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.  
When long life performance is required in actual use, the rms ripple current has to be reduced.