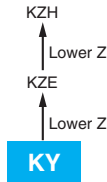


# KY Series

- Newly innovative electrolyte is employed to minimize ESR
- Endurance with ripple current : 6,000 to 10,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

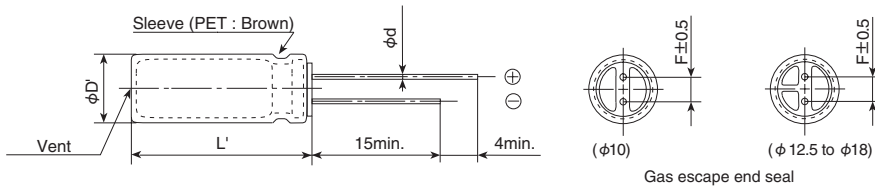


## SPECIFICATIONS

| Items  | Characteristics   |                                       |                   |      |      |                            |      |      |      |      |  |
|--|---|---------------------------------------|-------------------|------|------|----------------------------|------|------|------|------|--|
| Category   | -40 to +105°C   |                                       |                   |      |      |                            |      |      |      |      |  |
| Temperature Range                                      | -40 to +105°C   |                                       |                   |      |      |                            |      |      |      |      |  |
| Rated Voltage Range                                    | 6.3 to 100V <sub>dc</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>dc</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 | 0.09 | 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 (Max. Impedance Ratio) | Rated voltage (V <sub>dc</sub> )  | 6.3V                                  | 10V               | 16V  | 25V  | 35V                        | 50V  | 63V  | 80V  | 100V |  |
|  | Z(-25°C)/Z(+20°C)   | 4                                     | 3                 | 2    | 2    | 2                          | 2    | 2    | 2    | 2    |  |
|  | Z(-40°C)/Z(+20°C)   | 8                                     | 6                 | 4    | 3    | 3                          | 3    | 3    | 3    | 3    |  |
| (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  | 6.3 to 10V <sub>dc</sub>              | φ 10 : 6,000hours |      |      | φ 12.5 to 18 : 8,000hours  |      |      |      |      |  |
|  |   | 16 to 100V <sub>dc</sub>              | φ 10 : 7,000hours |      |      | φ 12.5 to 18 : 10,000hours |      |      |      |      |  |
|  | Capacitance change  | ≤ ±25% 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 500 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  | ≤ ±25% of the initial value           |                   |      |      |                            |      |      |      |      |  |
|  | D.F. (tan δ)  | ≤ 200% of the initial specified value |                   |      |      |                            |      |      |      |      |  |
|  | Leakage current   | ≤ The initial specified value         |                   |      |      |                            |      |      |      |      |  |

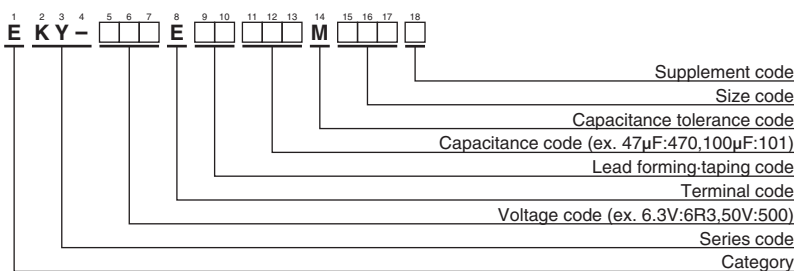
## DIMENSIONS [mm]

- Terminal Code : E



| φD  | 10         | 12.5 | 16  | 18  |
|-----|------------|------|-----|-----|
| φd  | 0.6        | 0.6  | 0.8 | 0.8 |
| F   | 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

| VV (V <sub>dc</sub> ) | Cap (μF) | Case size φD×L(mm) | Impedance (Ω max./100kHz) |       | Rated ripple current (mA rms/105°C, 100kHz) | Part No.           | VV (V <sub>dc</sub> ) | 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                   | 820      | 10×12.5            | 0.080                     | 0.32  | 865   | EKY-6R3E□□821MJCS5 | 16                    | 8,200    | 18×35.5            | 0.014                     | 0.038              | 4,220                                       | EKY-160E□□822MMP1S |
|                       | 1,200    | 10×16              | 0.060                     | 0.24  | 1,210                                       | EKY-6R3E□□122MJ16S |                       | 10,000   | 18×40              | 0.012                     | 0.032              | 4,280                                       | EKY-160E□□103MM40S |
|                       | 1,500    | 10×20              | 0.046                     | 0.18  | 1,400                                       | EKY-6R3E□□152MJ20S |                       | 330      | 10×12.5            | 0.080                     | 0.32               | 865   | EKY-250E□□331MJCS5 |
|                       | 1,800    | 12.5×15            | 0.049                     | 0.16  | 1,450                                       | EKY-6R3E□□182MK15S |                       | 470      | 10×16              | 0.060                     | 0.24               | 1,210                                       | EKY-250E□□471MJ16S |
|                       | 2,200    | 10×25              | 0.042                     | 0.17  | 1,650                                       | EKY-6R3E□□222MJ25S |                       | 680      | 10×20              | 0.046                     | 0.18               | 1,400                                       | EKY-250E□□681MJ20S |
|                       | 2,700    | 10×30              | 0.031                     | 0.12  | 1,910                                       | EKY-6R3E□□272MJ30S |                       | 680      | 12.5×15            | 0.049                     | 0.16               | 1,450                                       | EKY-250E□□681MK15S |
|                       | 2,700    | 16×15              | 0.042                     | 0.12  | 1,940                                       | EKY-6R3E□□272ML15S |                       | 820      | 10×25              | 0.042                     | 0.17               | 1,650                                       | EKY-250E□□821MJ25S |
|                       | 3,300    | 12.5×20            | 0.035                     | 0.12  | 1,900                                       | EKY-6R3E□□332MK20S |                       | 1,000    | 10×30              | 0.031                     | 0.12               | 1,910                                       | EKY-250E□□102MJ30S |
|                       | 3,900    | 12.5×25            | 0.027                     | 0.089 | 2,230                                       | EKY-6R3E□□392MK25S |                       | 1,000    | 12.5×20            | 0.035                     | 0.12               | 1,900                                       | EKY-250E□□102MK20S |
|                       | 3,900    | 18×15              | 0.043                     | 0.11  | 2,210                                       | EKY-6R3E□□392MM15S |                       | 1,000    | 16×15              | 0.042                     | 0.12               | 1,940                                       | EKY-250E□□102ML15S |
|                       | 4,700    | 12.5×30            | 0.024                     | 0.078 | 2,650                                       | EKY-6R3E□□472MK30S |                       | 1,200    | 18×15              | 0.043                     | 0.11               | 2,210                                       | EKY-250E□□122MM15S |
|                       | 5,600    | 12.5×35            | 0.020                     | 0.065 | 2,880                                       | EKY-6R3E□□562MK35S |                       | 1,500    | 12.5×25            | 0.027                     | 0.089              | 2,230                                       | EKY-250E□□152MK25S |
|                       | 5,600    | 16×20              | 0.027                     | 0.078 | 2,530                                       | EKY-6R3E□□562ML20S |                       | 1,800    | 12.5×30            | 0.024                     | 0.078              | 2,650                                       | EKY-250E□□182MK30S |
|                       | 6,800    | 12.5×40            | 0.017                     | 0.056 | 3,350                                       | EKY-6R3E□□682MK40S |                       | 1,800    | 16×20              | 0.027                     | 0.078              | 2,530                                       | EKY-250E□□182ML20S |
|                       | 6,800    | 16×25              | 0.021                     | 0.060 | 2,930                                       | EKY-6R3E□□682ML25S |                       | 2,200    | 12.5×35            | 0.020                     | 0.065              | 2,880                                       | EKY-250E□□222MK35S |
|                       | 6,800    | 18×20              | 0.026                     | 0.067 | 2,860                                       | EKY-6R3E□□682MM20S |                       | 2,200    | 18×20              | 0.026                     | 0.067              | 2,860                                       | EKY-250E□□222MM20S |
|                       | 8,200    | 16×31.5            | 0.017                     | 0.050 | 3,450                                       | EKY-6R3E□□822MLN3S |                       | 2,700    | 12.5×40            | 0.017                     | 0.056              | 3,350                                       | EKY-250E□□272MK40S |
|                       | 10,000   | 16×35.5            | 0.015                     | 0.044 | 3,610                                       | EKY-6R3E□□103MLP1S |                       | 2,700    | 16×25              | 0.021                     | 0.060              | 2,930                                       | EKY-250E□□272ML25S |
| 10,000                | 18×25    | 0.019              | 0.049                     | 3,140 | EKY-6R3E□□103MM25S                          | 3,300              | 16×31.5               | 0.017    | 0.050              | 3,450                     | EKY-250E□□332MLN3S |   |                    |
| 12,000                | 16×40    | 0.013              | 0.038                     | 4,080 | EKY-6R3E□□123ML40S                          | 3,300              | 18×25                 | 0.019    | 0.049              | 3,140                     | EKY-250E□□332MM25S |   |                    |
| 12,000                | 18×31.5  | 0.015              | 0.040                     | 4,170 | EKY-6R3E□□123MMN3S                          | 3,900              | 16×35.5               | 0.015    | 0.044              | 3,610                     | EKY-250E□□392MLP1S |   |                    |
| 15,000                | 18×35.5  | 0.014              | 0.038                     | 4,220 | EKY-6R3E□□153MMP1S                          | 3,900              | 18×31.5               | 0.015    | 0.040              | 4,170                     | EKY-250E□□392MMN3S |   |                    |
| 18,000                | 18×40    | 0.012              | 0.032                     | 4,280 | EKY-6R3E□□183MM40S                          | 4,700              | 16×40                 | 0.013    | 0.038              | 4,080                     | EKY-250E□□472ML40S |   |                    |
| 10                    | 680      | 10×12.5            | 0.080                     | 0.32  | 865   | EKY-100E□□681MJCS5 | 4,700                 | 18×35.5  | 0.014              | 0.038                     | 4,220              | EKY-250E□□472MMP1S                          |                    |
|                       | 1,000    | 10×16              | 0.060                     | 0.24  | 1,210                                       | EKY-100E□□102MJ16S | 5,600                 | 18×40    | 0.012              | 0.032                     | 4,280              | EKY-250E□□562MM40S                          |                    |
|                       | 1,200    | 10×20              | 0.046                     | 0.18  | 1,400                                       | EKY-100E□□122MJ20S | 220                   | 10×12.5  | 0.080              | 0.32                      | 865                | EKY-350E□□221MJCS5                          |                    |
|                       | 1,500    | 10×25              | 0.042                     | 0.17  | 1,650                                       | EKY-100E□□152MJ25S | 330                   | 10×16    | 0.060              | 0.24                      | 1,210              | EKY-350E□□331MJ16S                          |                    |
|                       | 1,500    | 12.5×15            | 0.049                     | 0.16  | 1,450                                       | EKY-100E□□152MK15S | 470                   | 10×20    | 0.046              | 0.18                      | 1,400              | EKY-350E□□471MJ20S                          |                    |
|                       | 2,200    | 10×30              | 0.031                     | 0.12  | 1,910                                       | EKY-100E□□222MJ30S | 470                   | 12.5×15  | 0.049              | 0.16                      | 1,450              | EKY-350E□□471MK15S                          |                    |
|                       | 2,200    | 12.5×20            | 0.035                     | 0.12  | 1,900                                       | EKY-100E□□222MK20S | 560                   | 10×25    | 0.042              | 0.17                      | 1,650              | EKY-350E□□561MJ25S                          |                    |
|                       | 2,200    | 16×15              | 0.042                     | 0.12  | 1,940                                       | EKY-100E□□222ML15S | 680                   | 10×30    | 0.031              | 0.12                      | 1,910              | EKY-350E□□681MJ30S                          |                    |
|                       | 2,700    | 18×15              | 0.043                     | 0.11  | 2,210                                       | EKY-100E□□272MM15S | 680                   | 12.5×20  | 0.035              | 0.12                      | 1,900              | EKY-350E□□681MK20S                          |                    |
|                       | 3,300    | 12.5×25            | 0.027                     | 0.089 | 2,230                                       | EKY-100E□□332MK25S | 680                   | 16×15    | 0.042              | 0.12                      | 1,940              | EKY-350E□□681ML15S                          |                    |
|                       | 3,900    | 12.5×30            | 0.024                     | 0.078 | 2,650                                       | EKY-100E□□392MK30S | 1,000                 | 12.5×25  | 0.027              | 0.089                     | 2,230              | EKY-350E□□102MK25S                          |                    |
|                       | 3,900    | 16×20              | 0.027                     | 0.078 | 2,530                                       | EKY-100E□□392ML20S | 1,000                 | 18×15    | 0.043              | 0.11                      | 2,210              | EKY-350E□□102MM15S                          |                    |
|                       | 4,700    | 12.5×35            | 0.020                     | 0.065 | 2,880                                       | EKY-100E□□472MK35S | 1,200                 | 12.5×30  | 0.024              | 0.078                     | 2,650              | EKY-350E□□122MK30S                          |                    |
|                       | 5,600    | 12.5×40            | 0.017                     | 0.056 | 3,350                                       | EKY-100E□□562MK40S | 1,200                 | 16×20    | 0.027              | 0.078                     | 2,530              | EKY-350E□□122ML20S                          |                    |
|                       | 5,600    | 16×25              | 0.021                     | 0.060 | 2,930                                       | EKY-100E□□562ML25S | 1,500                 | 12.5×35  | 0.020              | 0.065                     | 2,880              | EKY-350E□□152MK35S                          |                    |
|                       | 5,600    | 18×20              | 0.026                     | 0.067 | 2,860                                       | EKY-100E□□562MM20S | 1,800                 | 12.5×40  | 0.017              | 0.056                     | 3,350              | EKY-350E□□182MK40S                          |                    |
|                       | 6,800    | 16×31.5            | 0.017                     | 0.050 | 3,450                                       | EKY-100E□□682MLN3S | 1,800                 | 16×25    | 0.021              | 0.060                     | 2,930              | EKY-350E□□182ML25S                          |                    |
|                       | 6,800    | 18×25              | 0.019                     | 0.049 | 3,140                                       | EKY-100E□□682MM25S | 1,800                 | 18×20    | 0.026              | 0.067                     | 2,860              | EKY-350E□□182MM20S                          |                    |
| 8,200                 | 16×35.5  | 0.015              | 0.044                     | 3,610 | EKY-100E□□822MLP1S                          | 2,200              | 16×31.5               | 0.017    | 0.050              | 3,450                     | EKY-350E□□222MLN3S |   |                    |
| 8,200                 | 18×31.5  | 0.015              | 0.040                     | 4,170 | EKY-100E□□822MMN3S                          | 2,200              | 18×25                 | 0.019    | 0.049              | 3,140                     | EKY-350E□□222MM25S |   |                    |
| 10,000                | 16×40    | 0.013              | 0.038                     | 4,080 | EKY-100E□□103ML40S                          | 2,700              | 16×35.5               | 0.015    | 0.044              | 3,610                     | EKY-350E□□272MLP1S |   |                    |
| 10,000                | 18×35.5  | 0.014              | 0.038                     | 4,220 | EKY-100E□□103MMP1S                          | 2,700              | 18×31.5               | 0.015    | 0.040              | 4,170                     | EKY-350E□□272MMN3S |   |                    |
| 12,000                | 18×40    | 0.012              | 0.032                     | 4,280 | EKY-100E□□123MM40S                          | 3,300              | 16×40                 | 0.013    | 0.038              | 4,080                     | EKY-350E□□332ML40S |   |                    |
| 16                    | 470      | 10×12.5            | 0.080                     | 0.32  | 865   | EKY-160E□□471MJCS5 | 3,300                 | 18×35.5  | 0.014              | 0.038                     | 4,220              | EKY-350E□□332MMP1S                          |                    |
|                       | 680      | 10×16              | 0.060                     | 0.24  | 1,210                                       | EKY-160E□□681MJ16S | 3,900                 | 18×40    | 0.012              | 0.032                     | 4,280              | EKY-350E□□392MM40S                          |                    |
|                       | 1,000    | 10×20              | 0.046                     | 0.18  | 1,400                                       | EKY-160E□□102MJ20S | 150                   | 10×12.5  | 0.12               | 0.48                      | 760                | EKY-500E□□151MJCS5                          |                    |
|                       | 1,000    | 12.5×15            | 0.049                     | 0.16  | 1,450                                       | EKY-160E□□102MK15S | 220                   | 10×16    | 0.084              | 0.34                      | 1,050              | EKY-500E□□221MJ16S                          |                    |
|                       | 1,200    | 10×25              | 0.042                     | 0.17  | 1,650                                       | EKY-160E□□122MJ25S | 270                   | 10×20    | 0.060              | 0.24                      | 1,220              | EKY-500E□□271MJ20S                          |                    |
|                       | 1,500    | 10×30              | 0.031                     | 0.12  | 1,910                                       | EKY-160E□□152MJ30S | 270                   | 12.5×15  | 0.061              | 0.20                      | 1,260              | EKY-500E□□271MK15S                          |                    |
|                       | 1,500    | 12.5×20            | 0.035                     | 0.12  | 1,900                                       | EKY-160E□□152MK20S | 330                   | 10×25    | 0.055              | 0.22                      | 1,440              | EKY-500E□□331MJ25S                          |                    |
|                       | 1,500    | 16×15              | 0.042                     | 0.12  | 1,940                                       | EKY-160E□□152ML15S | 470                   | 10×30    | 0.043              | 0.17                      | 1,690              | EKY-500E□□471MJ30S                          |                    |
|                       | 2,200    | 12.5×25            | 0.027                     | 0.089 | 2,230                                       | EKY-160E□□222MK25S | 470                   | 12.5×20  | 0.045              | 0.15                      | 1,660              | EKY-500E□□471MK20S                          |                    |
|                       | 2,200    | 18×15              | 0.043                     | 0.11  | 2,210                                       | EKY-160E□□222MM15S | 470                   | 16×15    | 0.055              | 0.17                      | 1,690              | EKY-500E□□471ML15S                          |                    |
|                       | 2,700    | 12.5×30            | 0.024                     | 0.078 | 2,650                                       | EKY-160E□□272MK30S | 560                   | 12.5×25  | 0.034              | 0.11                      | 1,950              | EKY-500E□□561MK25S                          |                    |
|                       | 2,700    | 16×20              | 0.027                     | 0.078 | 2,530                                       | EKY-160E□□272ML20S | 560                   | 18×15    | 0.054              | 0.15                      | 1,930              | EKY-500E□□561MM15S                          |                    |
|                       | 3,300    | 12.5×35            | 0.020                     | 0.065 | 2,880                                       | EKY-160E□□332MK35S | 680                   | 12.5×30  | 0.030              | 0.10                      | 2,310              | EKY-500E□□681MK30S                          |                    |
|                       | 3,900    | 12.5×40            | 0.017                     | 0.056 | 3,350                                       | EKY-160E□□392MK40S | 820                   | 12.5×35  | 0.025              | 0.083                     | 2,510              | EKY-500E□□821MK35S                          |                    |
|                       | 3,900    | 16×25              | 0.021                     | 0.060 | 2,930                                       | EKY-160E□□392ML25S | 820                   | 16×20    | 0.034              | 0.10                      | 2,210              | EKY-500E□□821ML20S                          |                    |
|                       | 3,900    | 18×20              | 0.026                     | 0.067 | 2,860                                       | EKY-160E□□392MM20S | 1,000                 | 12.5×40  | 0.021              | 0.069                     | 2,920              | EKY-500E□□102MK40S                          |                    |
|                       | 4,700    | 16×31.5            | 0.017                     | 0.050 | 3,450                                       | EKY-160E□□472MLN3S | 1,000                 | 16×25    | 0.025              | 0.075                     | 2,555              | EKY-500E□□102ML25S                          |                    |
|                       | 4,700    | 18×25              | 0.019                     | 0.049 | 3,140                                       | EKY-160E□□472MM25S | 1,000                 | 18×20    | 0.036              | 0.097                     | 2,490              | EKY-500E□□102MM20S                          |                    |
| 5,600                 | 16×35.5  | 0.015              | 0.044                     | 3,610 | EKY-160E□□562MLP1S                          | 1,200              | 16×31.5               | 0.022    | 0.066              | 3,010                     | EKY-500E□□122MLN3S |   |                    |
| 5,600                 | 18×31.5  | 0.015              | 0.040                     | 4,170 | EKY-160E□□562MMN3S                          | 1,200              | 18×25                 | 0.026    | 0.070              | 2,740                     | EKY-500E□□122MM25S |   |                    |
| 6,800                 | 16×40    | 0.013              | 0.038                     | 4,080 | EKY-160E□□682ML40S                          | 1,500              | 16×35.5               | 0.019    | 0.057              | 3,150                     | EKY-500E□□152MLP1S |   |                    |

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



◆STANDARD RATINGS

| WV (V <sub>dc</sub> ) | Cap (μF) | Case size φD×L(mm) | Impedance (Ω max./100kHz) |       | Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz) | Part No.           | WV (V <sub>dc</sub> ) | Cap (μF) | Case size φD×L(mm) | Impedance (Ω max./100kHz) |       | Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz) | Part No.           |                    |
|-----------------------|----------|--------------------|---------------------------|-------|---|--------------------|-----------------------|----------|--------------------|---------------------------|-------|---|--------------------|--------------------|
|                       |          |                    | 20°C                      | -10°C |   |                    |                       |          |                    | 20°C                      | -10°C |   |                    |                    |
| 50                    | 1,800    | 16×40              | 0.016                     | 0.048 | 3,710   | EKY-500E□□182ML40S | 80                    | 390      | 12.5×30            | 0.042                     | 0.13  | 1,500   | EKY-800E□□391MK30S |                    |
|                       | 1,800    | 18×31.5            | 0.021                     | 0.057 | 3,635   | EKY-500E□□182MMN3S |                       | 470      | 12.5×35            | 0.036                     | 0.11  | 1,650   | EKY-800E□□471MK35S |                    |
|                       | 2,200    | 18×35.5            | 0.017                     | 0.046 | 3,680   | EKY-500E□□222MMP1S |                       | 470      | 16×25              | 0.038                     | 0.12  | 1,700   | EKY-800E□□471ML25S |                    |
|                       | 2,700    | 18×40              | 0.014                     | 0.038 | 3,800   | EKY-500E□□272MM40S |                       | 470      | 18×20              | 0.045                     | 0.14  | 1,500   | EKY-800E□□471MM20S |                    |
| 63                    | 82       | 10×12.5            | 0.11                      | 0.44  | 690   | EKY-630E□□820MJC5S |                       | 560      | 12.5×40            | 0.032                     | 0.095 | 1,800   | EKY-800E□□561MK40S |                    |
|                       | 120      | 10×16              | 0.076                     | 0.31  | 950   | EKY-630E□□121MJ16S |                       | 680      | 16×31.5            | 0.032                     | 0.095 | 1,850   | EKY-800E□□681MLN3S |                    |
|                       | 180      | 10×20              | 0.056                     | 0.23  | 1,150   | EKY-630E□□181MJ20S |                       | 680      | 18×25              | 0.036                     | 0.11  | 1,750   | EKY-800E□□681MM25S |                    |
|                       | 180      | 12.5×16            | 0.072                     | 0.29  | 1,150   | EKY-630E□□181MK16S |                       | 820      | 16×35.5            | 0.029                     | 0.086 | 2,000   | EKY-800E□□821MLP1S |                    |
|                       | 220      | 10×25              | 0.046                     | 0.19  | 1,350   | EKY-630E□□221MJ25S |                       | 820      | 18×31.5            | 0.030                     | 0.090 | 1,900   | EKY-800E□□821MMN3S |                    |
|                       | 270      | 12.5×20            | 0.041                     | 0.13  | 1,500   | EKY-630E□□271MK20S |                       | 1,000    | 16×40              | 0.027                     | 0.081 | 2,200   | EKY-800E□□102ML40S |                    |
|                       | 390      | 12.5×25            | 0.031                     | 0.093 | 1,900   | EKY-630E□□391MK25S |                       | 1,000    | 18×35.5            | 0.027                     | 0.081 | 2,200   | EKY-800E□□102MMP1S |                    |
|                       | 470      | 12.5×30            | 0.028                     | 0.084 | 2,300   | EKY-630E□□471MK30S |                       | 1,200    | 18×40              | 0.026                     | 0.077 | 2,700   | EKY-800E□□122MM40S |                    |
|                       | 470      | 16×20              | 0.032                     | 0.096 | 2,000   | EKY-630E□□471ML20S |                       | 100      | 47                 | 10×12.5                   | 0.17  | 0.66  | 480                | EKY-101E□□470MJC5S |
|                       | 560      | 12.5×35            | 0.024                     | 0.072 | 2,500   | EKY-630E□□561MK35S |                       |          | 68                 | 10×16                     | 0.11  | 0.47  | 600                | EKY-101E□□680MJ16S |
|                       | 680      | 12.5×40            | 0.021                     | 0.063 | 2,800   | EKY-630E□□681MK40S | 82                    |          | 10×20              | 0.084                     | 0.34  | 800   | EKY-101E□□820MJ20S |                    |
|                       | 680      | 16×25              | 0.025                     | 0.075 | 2,600   | EKY-630E□□681ML25S | 100                   |          | 12.5×16            | 0.11                      | 0.34  | 750   | EKY-101E□□101MK16S |                    |
|                       | 680      | 18×20              | 0.030                     | 0.090 | 2,500   | EKY-630E□□681MM20S | 120                   |          | 10×25              | 0.069                     | 0.28  | 900   | EKY-101E□□121MJ25S |                    |
|                       | 820      | 16×31.5            | 0.021                     | 0.063 | 2,850   | EKY-630E□□821MLN3S | 150                   |          | 12.5×20            | 0.062                     | 0.18  | 1,100   | EKY-101E□□151MK20S |                    |
|                       | 820      | 18×25              | 0.024                     | 0.072 | 2,800   | EKY-630E□□821MM25S | 220                   |          | 12.5×25            | 0.047                     | 0.14  | 1,250   | EKY-101E□□221MK25S |                    |
|                       | 1,000    | 16×35.5            | 0.019                     | 0.057 | 2,900   | EKY-630E□□102MLP1S | 220                   |          | 16×20              | 0.048                     | 0.15  | 1,350   | EKY-101E□□221ML20S |                    |
| 1,200                 | 16×40    | 0.018              | 0.054                     | 3,400 | EKY-630E□□122ML40S                                      | 270                | 12.5×30               |          | 0.042              | 0.13                      | 1,500 | EKY-101E□□271MK30S                                      |                    |                    |
| 1,200                 | 18×31.5  | 0.020              | 0.060                     | 3,300 | EKY-630E□□122MMN3S                                      | 330                | 12.5×35               |          | 0.036              | 0.11                      | 1,650 | EKY-101E□□331MK35S                                      |                    |                    |
| 1,500                 | 18×35.5  | 0.018              | 0.054                     | 3,400 | EKY-630E□□152MMP1S                                      | 330                | 16×25                 |          | 0.038              | 0.12                      | 1,700 | EKY-101E□□331ML25S                                      |                    |                    |
| 1,800                 | 18×40    | 0.017              | 0.051                     | 3,500 | EKY-630E□□182MM40S                                      | 330                | 18×20                 |          | 0.045              | 0.14                      | 1,500 | EKY-101E□□331MM20S                                      |                    |                    |
| 80                    | 68       | 10×12.5            | 0.17                      | 0.66  | 480   | EKY-800E□□680MJC5S | 390                   |          | 12.5×40            | 0.032                     | 0.095 | 1,800   | EKY-101E□□391MK40S |                    |
|                       | 100      | 10×16              | 0.11                      | 0.47  | 600   | EKY-800E□□101MJ16S | 470                   |          | 16×31.5            | 0.032                     | 0.095 | 1,850   | EKY-101E□□471MLN3S |                    |
|                       | 120      | 10×20              | 0.084                     | 0.34  | 800   | EKY-800E□□121MJ20S | 470                   | 18×25    | 0.036              | 0.11                      | 1,750 | EKY-101E□□471MM25S                                      |                    |                    |
|                       | 150      | 10×25              | 0.069                     | 0.28  | 900   | EKY-800E□□151MJ25S | 560                   | 16×35.5  | 0.029              | 0.086                     | 2,000 | EKY-101E□□561MLP1S                                      |                    |                    |
|                       | 150      | 12.5×16            | 0.11                      | 0.34  | 750   | EKY-800E□□151MK16S | 560                   | 18×31.5  | 0.030              | 0.090                     | 1,900 | EKY-101E□□561MMN3S                                      |                    |                    |
|                       | 220      | 12.5×20            | 0.062                     | 0.18  | 1,100   | EKY-800E□□221MK20S | 680                   | 16×40    | 0.027              | 0.081                     | 2,200 | EKY-101E□□681ML40S                                      |                    |                    |
|                       | 330      | 12.5×25            | 0.047                     | 0.14  | 1,250   | EKY-800E□□331MK25S | 680                   | 18×35.5  | 0.027              | 0.081                     | 2,200 | EKY-101E□□681MMP1S                                      |                    |                    |
|                       | 330      | 16×20              | 0.048                     | 0.15  | 1,350   | EKY-800E□□331ML20S | 820                   | 18×40    | 0.026              | 0.077                     | 2,700 | EKY-101E□□821MM40S                                      |                    |                    |

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

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Capacitance(μF) | Frequency(Hz) |      |      |      |
|-----------------|---------------|------|------|------|
|                 | 120           | 1k   | 10k  | 100k |
| 47 to 180       | 0.40          | 0.75 | 0.90 | 1.00 |
| 220 to 560      | 0.50          | 0.85 | 0.94 | 1.00 |
| 680 to 1,800    | 0.60          | 0.87 | 0.95 | 1.00 |
| 2,200 to 3,900  | 0.75          | 0.90 | 0.95 | 1.00 |
| 4,700 to        | 0.85          | 0.95 | 0.98 | 1.00 |

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
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[Part Numbering System](#)

[Part Numbering System \(Appendix\)](#)

[Standardization](#)

[Available Items by Manufacturing Locations](#)

[Environmental Measures](#)

[Technical Note](#)

[Precautions and Guidelines](#)



[Recommended Soldering Conditions](#)

[Taping, Lead-preforming and Packaging](#)

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