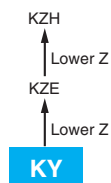


## KY Series

- Newly innovative electrolyte is employed to minimize ESR
- Endurance with ripple current : 4,000 to 10,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

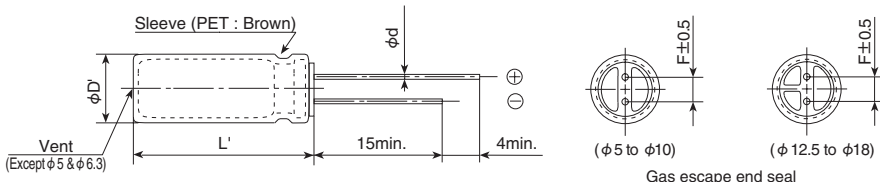


### SPECIFICATIONS

| Items                                                        | Characteristics                                                                                                                                                                                                                                                                     |                              |                                      |      |      |                       |      |      |                            |      |            |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|------|------|-----------------------|------|------|----------------------------|------|------------|
| Category                                                     | -40 to +105℃                                                                                                                                                                                                                                                                        |                              |                                      |      |      |                       |      |      |                            |      |            |
| Temperature Range                                            |                                                                                                                                                                                                                                                                                     |                              |                                      |      |      |                       |      |      |                            |      |            |
| Rated Voltage Range                                          | 6.3 to 100V <sub>dc</sub>                                                                                                                                                                                                                                                           |                              |                                      |      |      |                       |      |      |                            |      |            |
| Capacitance Tolerance                                        | ±20% (M) (at 20℃, 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℃ after 2 minutes)                                                                                                                        |                              |                                      |      |      |                       |      |      |                            |      |            |
| Dissipation Factor<br>(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℃, 120Hz)                                                                                                                                                                    |                              |                                      |      |      |                       |      |      |                            |      |            |
| Low Temperature<br>Characteristics<br>(Max. Impedance Ratio) | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                    | 6.3V                         | 10V                                  | 16V  | 25V  | 35V                   | 50V  | 63V  | 80V                        | 100V |            |
|                                                              | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                                                     | 4                            | 3                                    | 2    | 2    | 2                     | 2    | 2    | 2                          | 2    |            |
|                                                              | Z(-40℃)/Z(+20℃)                                                                                                                                                                                                                                                                     | 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℃ 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℃.                      |                              |                                      |      |      |                       |      |      |                            |      |            |
|                                                              | Time                                                                                                                                                                                                                                                                                | 6.3 to 10V <sub>dc</sub>     | φ 5 & 6.3 : 4,000hours               |      |      | φ 8 & 10 : 6,000hours |      |      | φ 12.5 to 18 : 8,000hours  |      |            |
|                                                              |                                                                                                                                                                                                                                                                                     | 16 to 100V <sub>dc</sub>     | φ 5 & 6.3 : 5,000hours               |      |      | φ 8 & 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℃ after exposing them for 500 hours at 105℃ 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         |      |      |                       |      |      |                            |      |            |

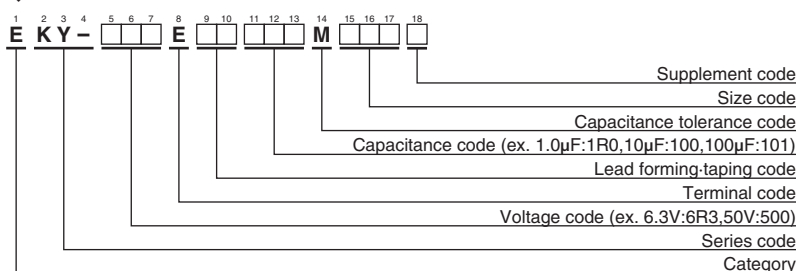
### DIMENSIONS [mm]

- Terminal Code : E



| φD  | 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<br>(V <sub>ac</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Impedance<br>(Ω max./100kHz) |       | Rated<br>ripple<br>current<br>(mA rms/<br>105°C,<br>100kHz) | Part No.           |
|--------------------------|-------------|-----------------------|------------------------------|-------|-------------------------------------------------------------|--------------------|
|                          |             |                       | 20°C                         | -10°C |                                                             |                    |
| 6.3                      | 150         | 5×11                  | 0.58                         | 2.3   | 210                                                         | EKY-6R3E□□151ME11D |
|                          | 330         | 6.3×11                | 0.22                         | 0.87  | 340                                                         | EKY-6R3E□□331MF11D |
|                          | 680         | 8×11.5                | 0.13                         | 0.52  | 640                                                         | EKY-6R3E□□681MHB5D |
|                          | 820         | 10×12.5               | 0.080                        | 0.32  | 865                                                         | EKY-6R3E□□821MJC5S |
|                          | 1,000       | 8×15                  | 0.087                        | 0.35  | 840                                                         | EKY-6R3E□□102MH15D |
|                          | 1,200       | 8×20                  | 0.069                        | 0.27  | 1,050                                                       | EKY-6R3E□□122MH20D |
|                          | 1,200       | 10×16                 | 0.060                        | 0.24  | 1,210                                                       | EKY-6R3E□□122MJ16S |
|                          | 1,500       | 10×20                 | 0.046                        | 0.18  | 1,400                                                       | EKY-6R3E□□152MJ20S |
|                          | 1,800       | 12.5×15               | 0.049                        | 0.16  | 1,450                                                       | EKY-6R3E□□182MK15S |
|                          | 2,200       | 10×25                 | 0.042                        | 0.17  | 1,650                                                       | EKY-6R3E□□222MJ25S |
|                          | 2,700       | 10×30                 | 0.031                        | 0.12  | 1,910                                                       | EKY-6R3E□□272MJ30S |
|                          | 2,700       | 16×15                 | 0.042                        | 0.12  | 1,940                                                       | EKY-6R3E□□272ML15S |
|                          | 3,300       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                       | EKY-6R3E□□332MK20S |
|                          | 3,900       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                       | EKY-6R3E□□392MK25S |
|                          | 3,900       | 18×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-6R3E□□392MM15S |
|                          | 4,700       | 12.5×30               | 0.024                        | 0.078 | 2,650                                                       | EKY-6R3E□□472MK30S |
|                          | 5,600       | 12.5×35               | 0.020                        | 0.065 | 2,880                                                       | EKY-6R3E□□562MK35S |
|                          | 5,600       | 16×20                 | 0.027                        | 0.078 | 2,530                                                       | EKY-6R3E□□562ML20S |
|                          | 6,800       | 12.5×40               | 0.017                        | 0.056 | 3,350                                                       | EKY-6R3E□□682MK40S |
|                          | 6,800       | 16×25                 | 0.021                        | 0.060 | 2,930                                                       | EKY-6R3E□□682ML25S |
|                          | 6,800       | 18×20                 | 0.026                        | 0.067 | 2,860                                                       | EKY-6R3E□□682MM20S |
| 8,200                    | 16×31.5     | 0.017                 | 0.050                        | 3,450 | EKY-6R3E□□822MLN3S                                          |                    |
| 10,000                   | 16×35.5     | 0.015                 | 0.044                        | 3,610 | EKY-6R3E□□103MLP1S                                          |                    |
| 10,000                   | 18×25       | 0.019                 | 0.049                        | 3,140 | EKY-6R3E□□103MM25S                                          |                    |
| 12,000                   | 16×40       | 0.013                 | 0.038                        | 4,080 | EKY-6R3E□□123ML40S                                          |                    |
| 12,000                   | 18×31.5     | 0.015                 | 0.040                        | 4,170 | EKY-6R3E□□123MMN3S                                          |                    |
| 15,000                   | 18×35.5     | 0.014                 | 0.038                        | 4,220 | EKY-6R3E□□153MMP1S                                          |                    |
| 18,000                   | 18×40       | 0.012                 | 0.032                        | 4,280 | EKY-6R3E□□183MM40S                                          |                    |
| 10                       | 100         | 5×11                  | 0.58                         | 2.3   | 210                                                         | EKY-100E□□101ME11D |
|                          | 220         | 6.3×11                | 0.22                         | 0.87  | 340                                                         | EKY-100E□□221MF11D |
|                          | 470         | 8×11.5                | 0.13                         | 0.52  | 640                                                         | EKY-100E□□471MHB5D |
|                          | 680         | 8×15                  | 0.087                        | 0.35  | 840                                                         | EKY-100E□□681MH15D |
|                          | 680         | 10×12.5               | 0.080                        | 0.32  | 865                                                         | EKY-100E□□681MJC5S |
|                          | 1,000       | 8×20                  | 0.069                        | 0.27  | 1,050                                                       | EKY-100E□□102MH20D |
|                          | 1,000       | 10×16                 | 0.060                        | 0.24  | 1,210                                                       | EKY-100E□□102MJ16S |
|                          | 1,200       | 10×20                 | 0.046                        | 0.18  | 1,400                                                       | EKY-100E□□122MJ20S |
|                          | 1,500       | 10×25                 | 0.042                        | 0.17  | 1,650                                                       | EKY-100E□□152MJ25S |
|                          | 1,500       | 12.5×15               | 0.049                        | 0.16  | 1,450                                                       | EKY-100E□□152MK15S |
|                          | 2,200       | 10×30                 | 0.031                        | 0.12  | 1,910                                                       | EKY-100E□□222MJ30S |
|                          | 2,200       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                       | EKY-100E□□222MK20S |
|                          | 2,200       | 16×15                 | 0.042                        | 0.12  | 1,940                                                       | EKY-100E□□222ML15S |
|                          | 2,700       | 18×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-100E□□272MM15S |
|                          | 3,300       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                       | EKY-100E□□332MK25S |
|                          | 3,900       | 12.5×30               | 0.024                        | 0.078 | 2,650                                                       | EKY-100E□□392MK30S |
|                          | 3,900       | 16×20                 | 0.027                        | 0.078 | 2,530                                                       | EKY-100E□□392ML20S |
|                          | 4,700       | 12.5×35               | 0.020                        | 0.065 | 2,880                                                       | EKY-100E□□472MK35S |
|                          | 5,600       | 12.5×40               | 0.017                        | 0.056 | 3,350                                                       | EKY-100E□□562MK40S |
|                          | 5,600       | 16×25                 | 0.021                        | 0.060 | 2,930                                                       | EKY-100E□□562ML25S |
|                          | 5,600       | 18×20                 | 0.026                        | 0.067 | 2,860                                                       | EKY-100E□□562MM20S |
| 6,800                    | 16×31.5     | 0.017                 | 0.050                        | 3,450 | EKY-100E□□682MLN3S                                          |                    |
| 6,800                    | 18×25       | 0.019                 | 0.049                        | 3,140 | EKY-100E□□682MM25S                                          |                    |
| 8,200                    | 16×35.5     | 0.015                 | 0.044                        | 3,610 | EKY-100E□□822MLP1S                                          |                    |
| 8,200                    | 18×31.5     | 0.015                 | 0.040                        | 4,170 | EKY-100E□□822MMN3S                                          |                    |
| 10,000                   | 16×40       | 0.013                 | 0.038                        | 4,080 | EKY-100E□□103ML40S                                          |                    |
| 10,000                   | 18×35.5     | 0.014                 | 0.038                        | 4,220 | EKY-100E□□103MMP1S                                          |                    |
| 12,000                   | 18×40       | 0.012                 | 0.032                        | 4,280 | EKY-100E□□123MM40S                                          |                    |
| 16                       | 56          | 5×11                  | 0.58                         | 2.3   | 210                                                         | EKY-160E□□560ME11D |
|                          | 120         | 6.3×11                | 0.22                         | 0.87  | 340                                                         | EKY-160E□□121MF11D |
|                          | 330         | 8×11.5                | 0.13                         | 0.52  | 640                                                         | EKY-160E□□331MHB5D |
|                          | 470         | 8×15                  | 0.087                        | 0.35  | 840                                                         | EKY-160E□□471MH15D |
|                          | 470         | 10×12.5               | 0.080                        | 0.32  | 865                                                         | EKY-160E□□471MJC5S |
|                          | 680         | 8×20                  | 0.069                        | 0.27  | 1,050                                                       | EKY-160E□□681MH20D |
|                          | 680         | 10×16                 | 0.060                        | 0.24  | 1,210                                                       | EKY-160E□□681MJ16S |
|                          | 1,000       | 10×20                 | 0.046                        | 0.18  | 1,400                                                       | EKY-160E□□102MJ20S |
|                          | 1,000       | 12.5×15               | 0.049                        | 0.16  | 1,450                                                       | EKY-160E□□102MK15S |
|                          | 1,200       | 10×25                 | 0.042                        | 0.17  | 1,650                                                       | EKY-160E□□122MJ25S |
|                          | 1,500       | 10×30                 | 0.031                        | 0.12  | 1,910                                                       | EKY-160E□□152MJ30S |
|                          | 1,500       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                       | EKY-160E□□152MK20S |
|                          | 1,500       | 16×15                 | 0.042                        | 0.12  | 1,940                                                       | EKY-160E□□152ML15S |
|                          | 1,500       | 18×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 20×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 25×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 30×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 35×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 40×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 45×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
|                          | 1,500       | 50×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-160E□□152MM15S |
| 25                       | 33          | 5×11                  | 0.58                         | 2.3   | 210                                                         | EKY-250E□□470ME11D |
|                          | 100         | 6.3×11                | 0.22                         | 0.87  | 340                                                         | EKY-250E□□101MF11D |
|                          | 220         | 8×11.5                | 0.13                         | 0.52  | 640                                                         | EKY-250E□□221MHB5D |
|                          | 330         | 8×15                  | 0.087                        | 0.35  | 840                                                         | EKY-250E□□331MH15D |
|                          | 330         | 10×12.5               | 0.080                        | 0.32  | 865                                                         | EKY-250E□□331MJC5S |
|                          | 470         | 8×20                  | 0.069                        | 0.27  | 1,050                                                       | EKY-250E□□471MH20D |
|                          | 470         | 10×16                 | 0.060                        | 0.24  | 1,210                                                       | EKY-250E□□471MJ16S |
|                          | 680         | 10×20                 | 0.046                        | 0.18  | 1,400                                                       | EKY-250E□□681MJ20S |
|                          | 680         | 12.5×15               | 0.049                        | 0.16  | 1,450                                                       | EKY-250E□□681MK15S |
|                          | 820         | 10×25                 | 0.042                        | 0.17  | 1,650                                                       | EKY-250E□□821MJ25S |
|                          | 1,000       | 10×30                 | 0.031                        | 0.12  | 1,910                                                       | EKY-250E□□102MJ30S |
|                          | 1,000       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                       | EKY-250E□□102MK20S |
|                          | 1,000       | 16×15                 | 0.042                        | 0.12  | 1,940                                                       | EKY-250E□□102ML15S |
|                          | 1,200       | 18×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-250E□□122MM15S |
|                          | 1,500       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                       | EKY-250E□□152MK25S |
|                          | 1,800       | 12.5×30               | 0.024                        | 0.078 | 2,650                                                       | EKY-250E□□182MK30S |
|                          | 1,800       | 16×20                 | 0.027                        | 0.078 | 2,530                                                       | EKY-250E□□182ML20S |
|                          | 2,200       | 12.5×35               | 0.020                        | 0.065 | 2,880                                                       | EKY-250E□□222MK35S |
|                          | 2,200       | 18×20                 | 0.026                        | 0.067 | 2,860                                                       | EKY-250E□□222MM20S |
|                          | 2,700       | 12.5×40               | 0.017                        | 0.056 | 3,350                                                       | EKY-250E□□272MK40S |
|                          | 2,700       | 16×25                 | 0.021                        | 0.060 | 2,930                                                       | EKY-250E□□272ML25S |
| 3,300                    | 16×31.5     | 0.017                 | 0.050                        | 3,450 | EKY-250E□□332MLN3S                                          |                    |
| 3,300                    | 18×25       | 0.019                 | 0.049                        | 3,140 | EKY-250E□□332MM25S                                          |                    |
| 3,900                    | 16×35.5     | 0.015                 | 0.044                        | 3,610 | EKY-250E□□392MLP1S                                          |                    |
| 3,900                    | 18×31.5     | 0.015                 | 0.040                        | 4,170 | EKY-250E□□392MMN3S                                          |                    |
| 4,700                    | 16×40       | 0.013                 | 0.038                        | 4,080 | EKY-250E□□472ML40S                                          |                    |
| 4,700                    | 18×35.5     | 0.014                 | 0.038                        | 4,220 | EKY-250E□□472MMP1S                                          |                    |
| 5,600                    | 18×40       | 0.012                 | 0.032                        | 4,280 | EKY-250E□□562MM40S                                          |                    |
| 35                       | 33          | 5×11                  | 0.58                         | 2.3   | 210                                                         | EKY-350E□□330ME11D |
|                          | 56          | 6.3×11                | 0.22                         | 0.87  | 340                                                         | EKY-350E□□560MF11D |
|                          | 150         | 8×11.5                | 0.13                         | 0.52  | 640                                                         | EKY-350E□□151MHB5D |
|                          | 220         | 8×15                  | 0.087                        | 0.35  | 840                                                         | EKY-350E□□221MH15D |
|                          | 220         | 10×12.5               | 0.080                        | 0.32  | 865                                                         | EKY-350E□□221MJC5S |
|                          | 270         | 8×20                  | 0.069                        | 0.27  | 1,050                                                       | EKY-350E□□271MH20D |
|                          | 330         | 10×16                 | 0.060                        | 0.24  | 1,210                                                       | EKY-350E□□331MJ16S |
|                          | 470         | 10×20                 | 0.046                        | 0.18  | 1,400                                                       | EKY-350E□□471MJ20S |
|                          | 470         | 12.5×15               | 0.049                        | 0.16  | 1,450                                                       | EKY-350E□□471MK15S |
|                          | 560         | 10×25                 | 0.042                        | 0.17  | 1,650                                                       | EKY-350E□□561MJ25S |
|                          | 680         | 10×30                 | 0.031                        | 0.12  | 1,910                                                       | EKY-350E□□681MJ30S |
|                          | 680         | 12.5×20               | 0.035                        | 0.12  | 1,900                                                       | EKY-350E□□681MK20S |
|                          | 680         | 16×15                 | 0.042                        | 0.12  | 1,940                                                       | EKY-350E□□681ML15S |
|                          | 1,000       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                       | EKY-350E□□102MK25S |
|                          | 1,000       | 18×15                 | 0.043                        | 0.11  | 2,210                                                       | EKY-350E□□102MM15S |
|                          | 1,200       | 12.5×30               | 0.024                        | 0.078 | 2,650                                                       | EKY-350E□□122MK30S |
|                          | 1,200       | 16×20                 | 0.027                        | 0.078 | 2,530                                                       | EKY-350E□□122ML20S |
|                          | 1,500       | 12.5×35               | 0.020                        | 0.065 | 2,880                                                       | EKY-350E□□152MK35S |
|                          | 1,800       | 12.5×40               | 0.017                        | 0.056 | 3,350                                                       | EKY-350E□□182MK40S |
|                          | 1,800       | 16×25                 | 0.021                        | 0.060 | 2,930                                                       | EKY-350E□□182ML25S |
|                          | 1,800       | 18×20                 | 0.026                        | 0.067 | 2,860                                                       | EKY-350E□□182MM20S |
| 2,200                    | 16×31.5     | 0.017                 | 0.050                        | 3,450 | EKY-350E□□222MLN3S                                          |                    |

## ◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Impedance<br>(Ω max./100kHz) |       | Rated<br>ripple<br>current<br>(mA rms/<br>105°C,<br>100kHz) | Part No.           |
|--------------------------|-------------|-----------------------|------------------------------|-------|-------------------------------------------------------------|--------------------|
|                          |             |                       | 20°C                         | -10°C |                                                             |                    |
| 35                       | 2,200       | 18×25                 | 0.019                        | 0.049 | 3,140                                                       | EKY-350E□□222MM2S  |
|                          | 2,700       | 16×35.5               | 0.015                        | 0.044 | 3,610                                                       | EKY-350E□□272MLP1S |
|                          | 2,700       | 18×31.5               | 0.015                        | 0.040 | 4,170                                                       | EKY-350E□□272MMN3S |
|                          | 3,300       | 16×40                 | 0.013                        | 0.038 | 4,080                                                       | EKY-350E□□332ML40S |
|                          | 3,300       | 18×35.5               | 0.014                        | 0.038 | 4,220                                                       | EKY-350E□□332MMP1S |
|                          | 3,900       | 18×40                 | 0.012                        | 0.032 | 4,280                                                       | EKY-350E□□392MM40S |
| 50                       | 1.0         | 5×11                  | 4.0                          | 16.0  | 30                                                          | EKY-500E□□1R0ME11D |
|                          | 2.2         | 5×11                  | 2.5                          | 10.0  | 43                                                          | EKY-500E□□2R2ME11D |
|                          | 3.3         | 5×11                  | 2.2                          | 8.8   | 53                                                          | EKY-500E□□3R3ME11D |
|                          | 4.7         | 5×11                  | 1.9                          | 7.6   | 88                                                          | EKY-500E□□4R7ME11D |
|                          | 10          | 5×11                  | 1.5                          | 6.0   | 100                                                         | EKY-500E□□100ME11D |
|                          | 22          | 5×11                  | 0.70                         | 2.8   | 180                                                         | EKY-500E□□220ME11D |
|                          | 56          | 6.3×11                | 0.30                         | 1.2   | 295                                                         | EKY-500E□□560MF11D |
|                          | 100         | 8×11.5                | 0.17                         | 0.68  | 555                                                         | EKY-500E□□101MHB5D |
|                          | 120         | 8×15                  | 0.12                         | 0.48  | 730                                                         | EKY-500E□□121MH15D |
|                          | 150         | 10×12.5               | 0.12                         | 0.48  | 760                                                         | EKY-500E□□151MJC5S |
|                          | 180         | 8×20                  | 0.091                        | 0.36  | 910                                                         | EKY-500E□□181MH20D |
|                          | 220         | 10×16                 | 0.084                        | 0.34  | 1,050                                                       | EKY-500E□□221MJ16S |
|                          | 270         | 10×20                 | 0.060                        | 0.24  | 1,220                                                       | EKY-500E□□271MJ20S |
|                          | 270         | 12.5×15               | 0.061                        | 0.20  | 1,260                                                       | EKY-500E□□271MK15S |
|                          | 330         | 10×25                 | 0.055                        | 0.22  | 1,440                                                       | EKY-500E□□331MJ25S |
|                          | 470         | 10×30                 | 0.043                        | 0.17  | 1,690                                                       | EKY-500E□□471MJ30S |
|                          | 470         | 12.5×20               | 0.045                        | 0.15  | 1,660                                                       | EKY-500E□□471MK20S |
|                          | 470         | 16×15                 | 0.055                        | 0.17  | 1,690                                                       | EKY-500E□□471ML15S |
|                          | 560         | 12.5×25               | 0.034                        | 0.11  | 1,950                                                       | EKY-500E□□561MK25S |
|                          | 560         | 18×15                 | 0.054                        | 0.15  | 1,930                                                       | EKY-500E□□561MM15S |
|                          | 680         | 12.5×30               | 0.030                        | 0.10  | 2,310                                                       | EKY-500E□□681MK30S |
|                          | 820         | 12.5×35               | 0.025                        | 0.083 | 2,510                                                       | EKY-500E□□821MK35S |
|                          | 820         | 16×20                 | 0.034                        | 0.10  | 2,210                                                       | EKY-500E□□821ML20S |
|                          | 1,000       | 12.5×40               | 0.021                        | 0.069 | 2,920                                                       | EKY-500E□□102MK40S |
|                          | 1,000       | 16×25                 | 0.025                        | 0.075 | 2,555                                                       | EKY-500E□□102ML25S |
|                          | 1,000       | 18×20                 | 0.036                        | 0.097 | 2,490                                                       | EKY-500E□□102MM20S |
| 63                       | 1,200       | 16×31.5               | 0.022                        | 0.066 | 3,010                                                       | EKY-500E□□122MLN3S |
|                          | 1,200       | 18×25                 | 0.026                        | 0.070 | 2,740                                                       | EKY-500E□□122MM2S  |
|                          | 1,500       | 16×35.5               | 0.019                        | 0.057 | 3,150                                                       | EKY-500E□□152MLP1S |
|                          | 1,800       | 16×40                 | 0.016                        | 0.048 | 3,710                                                       | EKY-500E□□182ML40S |
|                          | 1,800       | 18×31.5               | 0.021                        | 0.057 | 3,635                                                       | EKY-500E□□182MMN3S |
|                          | 2,200       | 18×35.5               | 0.017                        | 0.046 | 3,680                                                       | EKY-500E□□222MMP1S |
|                          | 2,700       | 18×40                 | 0.014                        | 0.038 | 3,800                                                       | EKY-500E□□272MM40S |
|                          | 15          | 5×11                  | 0.88                         | 3.5   | 165                                                         | EKY-630E□□150ME11D |
|                          | 33          | 6.3×11                | 0.35                         | 1.4   | 265                                                         | EKY-630E□□330MF11D |
|                          | 56          | 8×11.5                | 0.22                         | 0.88  | 500                                                         | EKY-630E□□560MHB5D |
|                          | 82          | 8×15                  | 0.16                         | 0.64  | 665                                                         | EKY-630E□□820MH15D |
|                          | 82          | 10×12.5               | 0.11                         | 0.44  | 690                                                         | EKY-630E□□820MJC5S |
|                          | 120         | 8×20                  | 0.12                         | 0.48  | 820                                                         | EKY-630E□□121MH20D |
|                          | 120         | 10×16                 | 0.076                        | 0.31  | 950                                                         | EKY-630E□□121MJ16S |
|                          | 180         | 10×20                 | 0.056                        | 0.23  | 1,150                                                       | EKY-630E□□181MJ20S |
|                          | 180         | 12.5×16               | 0.072                        | 0.29  | 1,150                                                       | EKY-630E□□181MK16S |
|                          | 220         | 10×25                 | 0.046                        | 0.19  | 1,350                                                       | EKY-630E□□221MJ25S |
|                          | 270         | 12.5×20               | 0.041                        | 0.13  | 1,500                                                       | EKY-630E□□271MK20S |
|                          | 390         | 12.5×25               | 0.031                        | 0.093 | 1,900                                                       | EKY-630E□□391MK25S |
| 63                       | 470         | 12.5×30               | 0.028                        | 0.084 | 2,300                                                       | EKY-630E□□471MK30S |
|                          | 470         | 16×20                 | 0.032                        | 0.096 | 2,000                                                       | EKY-630E□□471ML20S |
|                          | 560         | 12.5×35               | 0.024                        | 0.072 | 2,500                                                       | EKY-630E□□561MK35S |
|                          | 680         | 12.5×40               | 0.021                        | 0.063 | 2,800                                                       | EKY-630E□□681MK40S |
| 63                       | 680         | 16×25                 | 0.025                        | 0.075 | 2,600                                                       | EKY-630E□□681ML25S |
|                          | 680         | 18×20                 | 0.030                        | 0.090 | 2,500                                                       | EKY-630E□□681MM20S |
|                          | 820         | 16×31.5               | 0.021                        | 0.063 | 2,850                                                       | EKY-630E□□821MLN3S |
|                          | 820         | 18×25                 | 0.024                        | 0.072 | 2,800                                                       | EKY-630E□□821MM25S |
|                          | 1,000       | 16×35.5               | 0.019                        | 0.057 | 2,900                                                       | EKY-630E□□102MLP1S |
|                          | 1,200       | 16×40                 | 0.018                        | 0.054 | 3,400                                                       | EKY-630E□□122ML40S |
|                          | 1,200       | 18×31.5               | 0.020                        | 0.060 | 3,300                                                       | EKY-630E□□122MMN3S |
|                          | 1,500       | 18×35.5               | 0.018                        | 0.054 | 3,400                                                       | EKY-630E□□152MMP1S |
|                          | 1,800       | 18×40                 | 0.017                        | 0.051 | 3,500                                                       | EKY-630E□□182MM40S |
|                          | 68          | 10×12.5               | 0.17                         | 0.66  | 480                                                         | EKY-800E□□680MJC5S |
|                          | 100         | 10×16                 | 0.11                         | 0.47  | 600                                                         | EKY-800E□□101MJ16S |
|                          | 120         | 10×20                 | 0.084                        | 0.34  | 800                                                         | EKY-800E□□121MJ20S |
|                          | 150         | 10×25                 | 0.069                        | 0.28  | 900                                                         | EKY-800E□□151MJ25S |
|                          | 150         | 12.5×16               | 0.11                         | 0.34  | 750                                                         | EKY-800E□□151MK16S |
|                          | 220         | 12.5×20               | 0.062                        | 0.18  | 1,100                                                       | EKY-800E□□221MK20S |
|                          | 330         | 12.5×25               | 0.047                        | 0.14  | 1,250                                                       | EKY-800E□□331MK25S |
|                          | 330         | 16×20                 | 0.048                        | 0.15  | 1,350                                                       | EKY-800E□□331ML20S |
|                          | 390         | 12.5×30               | 0.042                        | 0.13  | 1,500                                                       | EKY-800E□□391MK30S |
| 80                       | 470         | 12.5×35               | 0.036                        | 0.11  | 1,650                                                       | EKY-800E□□471MK35S |
|                          | 470         | 16×25                 | 0.038                        | 0.12  | 1,700                                                       | EKY-800E□□471ML25S |
|                          | 470         | 18×20                 | 0.045                        | 0.14  | 1,500                                                       | EKY-800E□□471MM20S |
|                          | 560         | 12.5×40               | 0.032                        | 0.095 | 1,800                                                       | EKY-800E□□561MK40S |
|                          | 680         | 16×31.5               | 0.032                        | 0.095 | 1,850                                                       | EKY-800E□□681MLN3S |
|                          | 680         | 18×25                 | 0.036                        | 0.11  | 1,750                                                       | EKY-800E□□681MM25S |
|                          | 820         | 16×35.5               | 0.029                        | 0.086 | 2,000                                                       | EKY-800E□□821MLP1S |
|                          | 820         | 18×31.5               | 0.030                        | 0.090 | 1,900                                                       | EKY-800E□□821MMN3S |
|                          | 1,000       | 16×40                 | 0.027                        | 0.081 | 2,200                                                       | EKY-800E□□102ML40S |
|                          | 1,000       | 18×35.5               | 0.027                        | 0.081 | 2,200                                                       | EKY-800E□□102MMP1S |
|                          | 1,200       | 18×40                 | 0.026                        | 0.077 | 2,700                                                       | EKY-800E□□122MM40S |
|                          | 6.8         | 5×11                  | 1.4                          | 5.6   | 125                                                         | EKY-101E□□6R8ME11D |
|                          | 15          | 6.3×11                | 0.57                         | 2.3   | 205                                                         | EKY-101E□□150MF11D |
|                          | 27          | 8×11.5                | 0.36                         | 1.4   | 355                                                         | EKY-101E□□270MHB5D |
|                          | 39          | 8×15                  | 0.25                         | 1.0   | 450                                                         | EKY-101E□□390MH15D |
|                          | 47          | 10×12.5               | 0.17                         | 0.66  | 480                                                         | EKY-101E□□470MJC5S |
|                          | 56          | 8×20                  | 0.19                         | 0.76  | 565                                                         | EKY-101E□□560MH20D |
|                          | 68          | 10×16                 | 0.11                         | 0.47  | 600                                                         | EKY-101E□□680MJ16S |
|                          | 82          | 10×20                 | 0.084                        | 0.34  | 800                                                         | EKY-101E□□820MJ20S |
|                          | 100         | 12.5×16               | 0.11                         | 0.34  | 750                                                         | EKY-101E□□101MK16S |
| 100                      | 120         | 10×25                 | 0.069                        | 0.28  | 900                                                         | EKY-101E□□121MJ25S |
|                          | 150         | 12.5×20               | 0.062                        | 0.18  | 1,100                                                       | EKY-101E□□151MK20S |
|                          | 220         | 12.5×25               | 0.047                        | 0.14  | 1,250                                                       | EKY-101E□□221MK25S |
|                          | 220         | 16×20                 | 0.048                        | 0.15  | 1,350                                                       | EKY-101E□□221ML20S |
|                          | 270         | 12.5×30               | 0.042                        | 0.13  | 1,500                                                       | EKY-101E□□271MK30S |
|                          | 330         | 12.5×35               | 0.036                        | 0.11  | 1,650                                                       | EKY-101E□□331MK35S |
|                          | 330         | 16×25                 | 0.038                        | 0.12  | 1,700                                                       | EKY-101E□□331ML25S |
|                          | 330         | 18×20                 | 0.045                        | 0.14  | 1,500                                                       | EKY-101E□□331MM20S |
|                          | 390         | 12.5×40               | 0.032                        | 0.095 | 1,800                                                       | EKY-101E□□391MK40S |
|                          | 470         | 16×31.5               | 0.032                        | 0.095 | 1,850                                                       | EKY-101E□□471MLN3S |
|                          | 470         | 18×25                 | 0.036                        | 0.11  | 1,750                                                       | EKY-101E□□471MM25S |
|                          | 560         | 16×35.5               | 0.029                        | 0.086 | 2,000                                                       | EKY-101E□□561MLP1S |
|                          | 560         | 18×31.5               | 0.030                        | 0.090 | 1,900                                                       | EKY-101E□□561MMN3S |
|                          | 680         | 16×40                 | 0.027                        | 0.081 | 2,200                                                       | EKY-101E□□681ML40S |
|                          | 680         | 18×35.5               | 0.027                        | 0.081 | 2,200                                                       | EKY-101E□□681MMP1S |
|                          | 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 |
|-----------------|---------------|------|------|------|------|
| 1.0 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 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.