

## KYA Series

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

KYA

↓  
Downsized  
KY

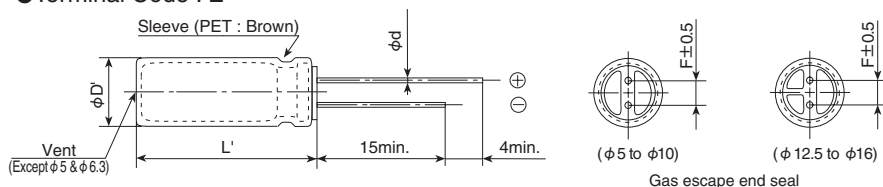


### SPECIFICATIONS

| Items                                                  | Characteristics                                                                                                                                                                                                                                                                       |                               |                                       |      |      |                       |      |                            |      |            |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|------|------|-----------------------|------|----------------------------|------|------------|
| Category                                               | Temperature Range                                                                                                                                                                                                                                                                     |                               |                                       |      |      |                       |      |                            |      |            |
| Rated Voltage Range                                    | -40 to +105°C                                                                                                                                                                                                                                                                         |                               |                                       |      |      |                       |      |                            |      |            |
| Capacitance Tolerance                                  | 6.3 to 100V <sub>dc</sub>                                                                                                                                                                                                                                                             |                               |                                       |      |      |                       |      |                            |      |            |
| Leakage Current                                        | ± 20% (M) (at 20°C, 120Hz)                                                                                                                                                                                                                                                            |                               |                                       |      |      |                       |      |                            |      |            |
| Dissipation Factor (tan δ )                            | I=0.01CV or 3μA, whichever is greater.                                                                                                                                                                                                                                                |                               |                                       |      |      |                       |      |                            |      |            |
|                                                        | Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)                                                                                                                                                                   |                               |                                       |      |      |                       |      |                            |      |            |
|                                                        | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                      | 6.3V                          | 10V                                   | 16V  | 25V  | 35V                   | 50V  | 63V                        | 100V |            |
|                                                        | tan δ (Max.)                                                                                                                                                                                                                                                                          | 0.22                          | 0.19                                  | 0.16 | 0.14 | 0.12                  | 0.10 | 0.09                       | 0.08 |            |
| Low Temperature Characteristics (Max. Impedance Ratio) | When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)                                                                                                                                                                     |                               |                                       |      |      |                       |      |                            |      |            |
|                                                        | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                      | 6.3V                          | 10V                                   | 16V  | 25V  | 35V                   | 50V  | 63V                        | 100V |            |
|                                                        | Z(-25°C)/Z(+20°C)                                                                                                                                                                                                                                                                     | 4                             | 3                                     | 2    | 2    | 2                     | 2    | 2                          | 2    |            |
|                                                        | Z(-40°C)/Z(+20°C)                                                                                                                                                                                                                                                                     | 8                             | 6                                     | 4    | 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 5 & 6.3 : 4,000hours                |      |      | φ 8 & 10 : 6,000hours |      | φ 12.5 to 16 : 8,000hours  |      |            |
|                                                        |                                                                                                                                                                                                                                                                                       | 16 to 100V <sub>dc</sub>      | φ 5 & 6.3 : 5,000hours                |      |      | φ 8 & 10 : 7,000hours |      | φ 12.5 to 16 : 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         |      |      |                       |      |                            |      |            |

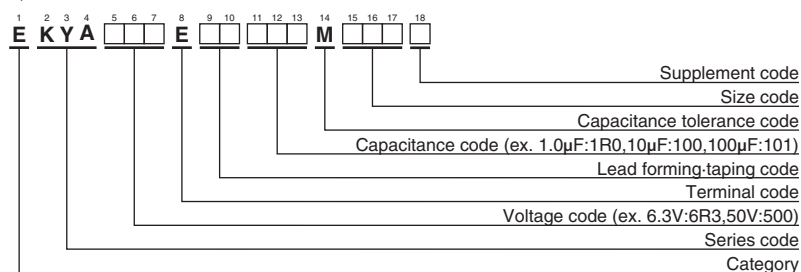
### DIMENSIONS [mm]

- Terminal Code : E



| φD  | 5          | 6.3 | 8   | 10  | 12.5 | 16  |
|-----|------------|-----|-----|-----|------|-----|
| φd  | 0.5        | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 |
| F   | 2.0        | 2.5 | 3.5 | 5.0 | 5.0  | 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>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Impedance<br>(Ω max./100kHz) |       | Rated ripple<br>current<br>(mA rms/<br>105°C,<br>100kHz) | Part No.             |
|--------------------------|-------------|-----------------------|------------------------------|-------|----------------------------------------------------------|----------------------|
|                          |             |                       | 20°C                         | -10°C |                                                          |                      |
| 6.3                      | 100         | 5×11                  | 0.90                         | 3.6   | 150                                                      | EKYA6R3E□□101ME11D   |
|                          | 180         | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA6R3E□□181ME11D   |
|                          | 220         | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA6R3E□□221ME11D   |
|                          | 330         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA6R3E□□331MF11D   |
|                          | 470         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA6R3E□□471MF11D   |
|                          | 820         | 8×11.5                | 0.13                         | 0.52  | 640                                                      | EKYA6R3E□□821MHB5D   |
|                          | 1,200       | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA6R3E□□122MJC5S   |
|                          | 1,200       | 8×15                  | 0.087                        | 0.35  | 840                                                      | EKYA6R3E□□122MH15D   |
|                          | 1,500       | 8×20                  | 0.069                        | 0.27  | 1,050                                                    | EKYA6R3E□□152MH20D   |
|                          | 1,800       | 10×16                 | 0.060                        | 0.24  | 1,300                                                    | EKYA6R3E□□182MJ16S   |
|                          | 2,700       | 10×20                 | 0.046                        | 0.18  | 1,400                                                    | EKYA6R3E□□272MJ20S   |
|                          | 3,300       | 10×25                 | 0.042                        | 0.17  | 1,650                                                    | EKYA6R3E□□332MJ25S   |
|                          | 3,900       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                    | EKYA6R3E□□392MK20S   |
|                          | 4,700       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA6R3E□□472MK25S   |
|                          | 5,600       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA6R3E□□562MK25S   |
| 10                       | 10,000      | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA6R3E□□103MLN3S   |
|                          | 12,000      | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA6R3E□□123MLN3S   |
|                          | 15,000      | 16×35.5               | 0.015                        | 0.044 | 3,610                                                    | EKYA6R3E□□153MLP1S   |
|                          | 100         | 5×11                  | 0.90                         | 3.6   | 150                                                      | EKYA100E□□101ME11D   |
|                          | 120         | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA100E□□121ME11D   |
|                          | 330         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA100E□□331MF11D   |
|                          | 560         | 8×11.5                | 0.13                         | 0.52  | 640                                                      | EKYA100E□□561MHB5D   |
|                          | 820         | 8×15                  | 0.087                        | 0.35  | 840                                                      | EKYA100E□□821MH15D   |
|                          | 820         | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA100E□□821MJC5S   |
|                          | 1,000       | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA100E□□102MJC5S   |
|                          | 1,200       | 8×20                  | 0.069                        | 0.27  | 1,050                                                    | EKYA100E□□122MH20D   |
|                          | 1,200       | 10×16                 | 0.060                        | 0.24  | 1,300                                                    | EKYA100E□□122MJ16S   |
| 16                       | 1,800       | 10×20                 | 0.046                        | 0.18  | 1,400                                                    | EKYA100E□□182MJ20S   |
|                          | 2,200       | 10×25                 | 0.042                        | 0.17  | 1,650                                                    | EKYA100E□□222MJ25S   |
|                          | 3,300       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                    | EKYA100E□□332MK20S   |
|                          | 3,900       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA100E□□392MK25S   |
|                          | 6,800       | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA100E□□682ML25S   |
|                          | 10,000      | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA100E□□103MLN3S   |
|                          | 12,000      | 16×35.5               | 0.015                        | 0.044 | 3,610                                                    | EKYA100E□□123MLP1S   |
|                          | 47          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA160E□□470ME11D   |
|                          | 100         | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA160E□□101ME11D   |
|                          | 220         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA160E□□221MF11D   |
|                          | 270         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA160E□□271MF11D   |
|                          | 470         | 8×11.5                | 0.13                         | 0.52  | 640                                                      | EKYA160E□□471MHB5D   |
| 25                       | 680         | 8×15                  | 0.087                        | 0.35  | 840                                                      | EKYA160E□□681MH15D   |
|                          | 680         | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA160E□□681MJC5S   |
|                          | 820         | 8×20                  | 0.069                        | 0.27  | 1,050                                                    | EKYA160E□□821MH20D   |
|                          | 1,000       | 10×16                 | 0.060                        | 0.24  | 1,300                                                    | EKYA160E□□102MJ16S   |
|                          | 1,500       | 10×20                 | 0.046                        | 0.18  | 1,400                                                    | EKYA160E□□152MJ20S   |
|                          | 1,800       | 10×25                 | 0.042                        | 0.17  | 1,650                                                    | EKYA160E□□182MJ25S   |
|                          | 2,200       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                    | EKYA160E□□222MK20S   |
|                          | 3,300       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA160E□□332MK25S   |
|                          | 4,700       | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA160E□□472ML25S   |
|                          | 5,600       | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA160E□□562ML25S   |
|                          | 6,800       | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA160E□□682MLN3S   |
|                          | 8,200       | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA160E□□822MLN3S   |
| 63                       | 10,000      | 16×35.5               | 0.015                        | 0.044 | 3,610                                                    | EKYA160E□□103MLP1S   |
|                          | 33          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA250E□□330ME11D   |
|                          | 47          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA250E□□470ME11D   |
|                          | 68          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA250E□□680ME11D   |
|                          | 150         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA250E□□151MF11D   |
|                          | 330         | 8×11.5                | 0.13                         | 0.52  | 640                                                      | EKYA250E□□331MHB5D   |
|                          | 390         | 8×15                  | 0.087                        | 0.35  | 840                                                      | EKYA250E□□391MH15D   |
|                          | 470         | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA250E□□471MJC5S   |
|                          | 560         | 8×20                  | 0.069                        | 0.27  | 1,050                                                    | EKYA250E□□561MH20D   |
|                          | 680         | 10×16                 | 0.060                        | 0.24  | 1,300                                                    | EKYA250E□□681MJ16S   |
|                          | 1,000       | 10×20                 | 0.046                        | 0.18  | 1,400                                                    | EKYA250E□□102MJ20S   |
|                          | 1,200       | 10×25                 | 0.042                        | 0.17  | 1,650                                                    | EKYA250E□□122MJ25S   |
| 100                      | 1,500       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                    | EKYA250E□□152MK20S   |
|                          | 2,200       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA250E□□222MK25S   |
|                          | 3,300       | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA250E□□332ML25S   |
|                          | 3,900       | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA250E□□392MLN3S   |
|                          | 5,600       | 16×35.5               | 0.015                        | 0.044 | 3,610                                                    | EKYA250E□□562MLP1S   |
|                          | 33          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA350E□□330ME11D   |
|                          | 47          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA350E□□470ME11D   |
|                          | 68          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA350E□□680ME11D   |
|                          | 150         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA350E□□151MF11D   |
|                          | 330         | 8×11.5                | 0.13                         | 0.52  | 640                                                      | EKYA350E□□331MHB5D   |
|                          | 390         | 8×15                  | 0.087                        | 0.35  | 840                                                      | EKYA350E□□391MH15D   |
|                          | 470         | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA350E□□471MJC5S   |
| 250                      | 560         | 8×20                  | 0.069                        | 0.27  | 1,050                                                    | EKYA350E□□561MH20D   |
|                          | 680         | 10×16                 | 0.060                        | 0.24  | 1,300                                                    | EKYA350E□□681MJ16S   |
|                          | 1,000       | 10×20                 | 0.046                        | 0.18  | 1,400                                                    | EKYA350E□□102MJ20S   |
|                          | 1,200       | 10×25                 | 0.042                        | 0.17  | 1,650                                                    | EKYA350E□□122MJ25S   |
|                          | 1,500       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                    | EKYA350E□□152MK20S   |
|                          | 2,200       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA350E□□222MK25S   |
|                          | 3,300       | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA350E□□332ML25S   |
|                          | 3,900       | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA350E□□392MLN3S   |
|                          | 5,600       | 16×35.5               | 0.015                        | 0.044 | 3,610                                                    | EKYA350E□□562MLP1S   |
|                          | 33          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA500E□□330ME11D   |
|                          | 47          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA500E□□470ME11D   |
|                          | 68          | 5×11                  | 0.40                         | 1.6   | 250                                                      | EKYA500E□□680ME11D   |
| 500                      | 150         | 6.3×11                | 0.22                         | 0.87  | 400                                                      | EKYA500E□□151MF11D   |
|                          | 330         | 8×11.5                | 0.13                         | 0.52  | 640                                                      | EKYA500E□□331MHB5D   |
|                          | 390         | 8×15                  | 0.087                        | 0.35  | 840                                                      | EKYA500E□□391MH15D   |
|                          | 470         | 10×12.5               | 0.080                        | 0.32  | 865                                                      | EKYA500E□□471MJC5S   |
|                          | 560         | 8×20                  | 0.069                        | 0.27  | 1,050                                                    | EKYA500E□□561MH20D   |
|                          | 680         | 10×16                 | 0.060                        | 0.24  | 1,300                                                    | EKYA500E□□681MJ16S   |
|                          | 1,000       | 10×20                 | 0.046                        | 0.18  | 1,400                                                    | EKYA500E□□102MJ20S   |
|                          | 1,200       | 10×25                 | 0.042                        | 0.17  | 1,650                                                    | EKYA500E□□122MJ25S   |
|                          | 1,500       | 12.5×20               | 0.035                        | 0.12  | 1,900                                                    | EKYA500E□□152MK20S   |
|                          | 2,200       | 12.5×25               | 0.027                        | 0.089 | 2,230                                                    | EKYA500E□□222MK25S   |
|                          | 3,300       | 16×25                 | 0.021                        | 0.060 | 2,930                                                    | EKYA500E□□332ML25S   |
|                          | 3,900       | 16×31.5               | 0.017                        | 0.050 | 3,450                                                    | EKYA500E□□392MLN3S   |
| 1000                     | 5,600       | 16×35.5               | 0.015                        | 0.044 | 3,610                                                    | EKYA500E□□562MLP1S   |
|                          | 1.0         | 5×11                  | 4.0                          | 16    | 30                                                       | EKYA101E□□1R0ME11D   |
|                          | 2.2         | 5×11                  | 2.5                          | 10    | 43                                                       | EKYA101E□□2R2ME11D   |
|                          | 3.3         | 5×11                  | 2.2                          | 8.8   | 53                                                       | EKYA101E□□3R3ME11D   |
|                          | 4.7         | 5×11                  | 1.9                          | 7.6   | 88                                                       | EKYA101E□□4R4ME11D   |
|                          | 10          | 5×11                  | 1.5                          | 6.0   | 100                                                      | EKYA101E□□5R5ME11D   |
|                          | 22          | 5×11                  | 0.70                         | 2.8   | 180                                                      | EKYA101E□□6R6ME11D   |
|                          | 27          | 5×11                  | 0.70                         | 2.8   | 250                                                      | EKYA101E□□7R7ME11D   |
|                          | 47          | 6.3×11                | 0.30                         | 1.2   | 295                                                      | EKYA101E□□8R8ME11D   |
|                          | 56          | 6.3×11                | 0.30                         | 1.2   | 295                                                      | EKYA101E□□9R9ME11D   |
|                          | 100         | 8×11.5                | 0.17                         | 0.68  | 555                                                      | EKYA101E□□10R10ME11D |
|                          | 150         | 8×15                  | 0.12                         | 0.48  | 730                                                      | EKYA101E□□15R15ME11D |
|                          | 180         | 10×12.5               | 0.12                         | 0.48  | 760                                                      | EKYA101E□□18R18ME11D |
|                          | 180         | 8×20                  | 0.091                        | 0.36  | 910                                                      | EKYA101E□□18R18ME11D |
|                          | 220         | 10×16                 | 0.084                        | 0.34  | 1,050                                                    | EKYA101E□□22R22ME11D |
|                          | 330         | 10×20                 | 0.060                        | 0.24  | 1,220                                                    | EKYA101E□□33R33ME11D |
|                          | 470         | 10×25                 | 0.055                        | 0.22  | 1,440                                                    | EKYA101E□□47R47ME11D |
|                          | 470         | 12.5×20               | 0.045                        | 0.15  | 1,660                                                    | EKYA101E□□47R47ME11D |
|                          | 560         | 12.5×20               | 0.045                        | 0.15  | 1,660                                                    | EKYA101E□□56R56ME11D |
|                          | 820         | 12.5×25               | 0.034                        | 0.11  | 1,950                                                    | EKYA101E□□82R82ME11D |
|                          | 1,000       | 16×25                 | 0.025                        | 0.075 | 2,555                                                    | EKYA101E□□10R10ME11D |
|                          | 1,200       | 16×25                 | 0.025                        | 0.075 | 2,555                                                    | EKYA101E□□12R12ME11D |
|                          | 1,800       | 16×31.5               | 0.022                        | 0.066 | 3,010                                                    | EKYA101E□□18R18ME11D |
|                          | 2,200       | 16×35.5               | 0.019                        | 0.057 | 3,150                                                    | EKYA101E□□22R22ME11D |
|                          | 10          | 5×11                  | 0.88                         | 3.5   | 173                                                      | EKYA630E□□100ME11D   |
|                          | 15          | 5×11                  | 0.88                         | 3.5   | 173                                                      | EKYA630E□□150ME11D   |
|                          | 33          | 6.3×11                | 0.35                         | 1.4   | 278                                                      | EKYA630E□□330MF11D   |
|                          | 56          | 8×11.5                | 0.22                         | 0.88  | 500                                                      | EKYA630E□□560MHB5D   |
|                          | 82          | 8×15                  | 0.16                         | 0.64  | 665                                                      | EKYA630E□□820MH15D   |
|                          | 100         | 10×12.5               | 0.11                         | 0.44  | 725                                                      | EKYA630E□□101MJC5S   |
|                          | 120         | 8×20                  | 0.12                         | 0.48  | 820                                                      | EKYA630E□□121MH20D   |
|                          | 120         | 10×16                 | 0.076                        | 0.31  | 950                                                      | EKYA630E□□121MJ16S   |
|                          | 220         | 10×20                 | 0.056                        | 0.23  | 1,200                                                    | EKYA630E□□221MJ20S   |
|                          | 330         | 10×25                 | 0.046                        | 0.19  | 1,350                                                    | EKYA630E□□331MJ25S   |
|                          | 330         | 12.5×20               | 0.041                        | 0.13  | 1,570                                                    | EKYA630E□□331MK20S   |
|                          | 390         | 12.5×20               | 0.041                        | 0.13  | 1,570                                                    | EKYA630E□□391MK20S   |
|                          | 470         | 12.5×25               | 0.031                        | 0.093 | 1,990                                                    | EKYA630E□□471MK25S   |
|                          | 560         | 12.5×25               | 0.031                        | 0.093 | 1,990                                                    | EKYA630E□□561MK25S   |
|                          | 1,000       | 16×25                 | 0.025                        | 0.075 | 2,730                                                    | EKYA630E□□102ML25S   |
|                          | 1,200       | 16×31.5               | 0.021                        | 0.063 | 2,850                                                    | EKYA630E□□122MLN3S   |
|                          | 1,500       | 16×35.5               | 0.019                        | 0.057 | 2,900                                                    | EKYA630E□□152MLP1S   |
|                          | 1.0         | 5×11                  | 4.5                          | 15    | 20                                                       | EKYA101E□□1R0ME11D   |
|                          | 2.2         | 5×11                  | 3.0                          | 13    | 30                                                       | EKYA101E□□2R2ME11D   |
|                          | 3.3         | 5×11                  | 2.7                          | 11    | 40                                                       | EKYA101E□□3R3ME11D   |
|                          | 4.7         | 5×11                  | 2.5                          | 10    | 65                                                       | EKYA101E□□4R7ME11D   |
|                          | 6.8         | 5×11                  | 1.4                          | 5.6   | 125                                                      | EKYA101E□□6R8ME11D   |

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

# KYA Series

## ◆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 <sub>rms</sub> /105°C,<br>100kHz) | Part No.           |
|--------------------------|-------------|-----------------------|------------------------------|-------|---------------------------------------------------------------------|--------------------|
|                          |             |                       | 20°C                         | -10°C |                                                                     |                    |
| 100                      | 10          | 6.3×11                | 0.57                         | 2.3   | 205                                                                 | EKYA101E□□100MF11D |
|                          | 15          | 6.3×11                | 0.57                         | 2.3   | 205                                                                 | EKYA101E□□150MF11D |
|                          | 27          | 8×11.5                | 0.36                         | 1.4   | 355                                                                 | EKYA101E□□270MHB5D |
|                          | 39          | 8×15                  | 0.25                         | 1.0   | 450                                                                 | EKYA101E□□390MH15D |
|                          | 47          | 10×12.5               | 0.17                         | 0.66  | 480                                                                 | EKYA101E□□470MJC5S |
|                          | 56          | 8×20                  | 0.19                         | 0.76  | 565                                                                 | EKYA101E□□560MH20D |
|                          | 68          | 10×16                 | 0.11                         | 0.47  | 600                                                                 | EKYA101E□□680MJ16S |
|                          | 100         | 10×20                 | 0.084                        | 0.34  | 800                                                                 | EKYA101E□□101MJ20S |
|                          | 150         | 10×25                 | 0.069                        | 0.28  | 900                                                                 | EKYA101E□□151MJ25S |
|                          | 180         | 12.5×20               | 0.062                        | 0.18  | 1,100                                                               | EKYA101E□□181MK20S |
|                          | 220         | 12.5×25               | 0.047                        | 0.14  | 1,250                                                               | EKYA101E□□221MK25S |
|                          | 330         | 16×25                 | 0.038                        | 0.12  | 1,700                                                               | EKYA101E□□331ML25S |
|                          | 470         | 16×31.5               | 0.032                        | 0.095 | 1,850                                                               | EKYA101E□□471MLN3S |
|                          | 560         | 16×35.5               | 0.029                        | 0.086 | 2,000                                                               | EKYA101E□□561MLP1S |

□□ : 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.