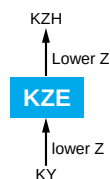


Upgrade!

**KZE Series**

- Ultra Low impedance for Personal Computer and Storage Equipment
- Endurance with ripple current: 105°C 1000 to 5000 hours
- Non solvent-proof type
- Pb-free design

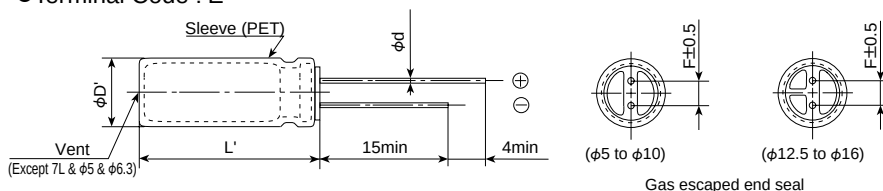


## SPECIFICATIONS

| 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 (tanδ)                              | 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  | 80V  | 100V |
|                                                        | tanδ (Max.)                                                                                                                                                                                                | 0.22                                                                                                | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.09 | 0.08 |
| Low Temperature Characteristics (Max. Impedance Ratio) | When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (at 20°C, 120Hz)                                                                                            |                                                                                                     |      |      |      |      |      |      |      |      |
|                                                        | Z (-25°C) / Z (+20°C)                                                                                                                                                                                      | 2max.                                                                                               |      |      |      |      |      |      |      |      |
|                                                        | Z (-40°C) / Z (+20°C)                                                                                                                                                                                      | 3max.                                                                                               |      |      |      |      |      |      |      |      |
| Endurance                                              | (at 120Hz)                                                                                                                                                                                                 |                                                                                                     |      |      |      |      |      |      |      |      |
|                                                        | 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 for the specified period of time at 105°C. |                                                                                                     |      |      |      |      |      |      |      |      |
|                                                        | Time                                                                                                                                                                                                       | 7L : 1000hours   φ5 & φ6.3 : 2000hours   φ8 : 3000hours   φ10 : 4000hours   φ12.5 & φ16 : 5000hours |      |      |      |      |      |      |      |      |
|                                                        | Capacitance change                                                                                                                                                                                         | ≤±25% of the initial value                                                                          |      |      |      |      |      |      |      |      |
|                                                        | D.F. (tanδ)                                                                                                                                                                                                | ≤200% of the initial specified value                                                                |      |      |      |      |      |      |      |      |
| Shelf Life                                             | Leakage current                                                                                                                                                                                            | ≤The initial specified value                                                                        |      |      |      |      |      |      |      |      |
|                                                        | 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.                                               |                                                                                                     |      |      |      |      |      |      |      |      |
|                                                        | Capacitance change                                                                                                                                                                                         | ≤±25% of the initial value                                                                          |      |      |      |      |      |      |      |      |
|                                                        | D.F. (tanδ)                                                                                                                                                                                                | ≤200% of the initial specified value                                                                |      |      |      |      |      |      |      |      |
|                                                        | Leakage current                                                                                                                                                                                            | ≤The initial specified value                                                                        |      |      |      |      |      |      |      |      |

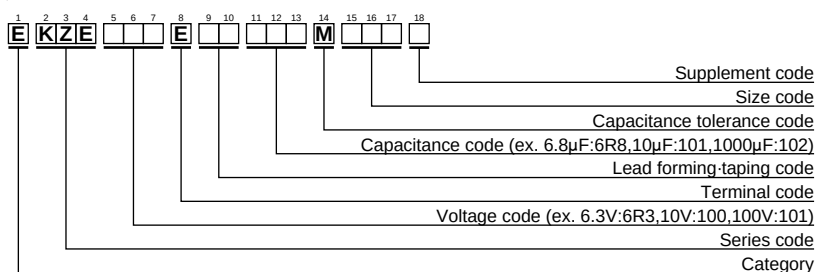
## DIMENSIONS [mm]

- Terminal Code : E



| φD  | 5                          | 6.3  | 8    | 10, 12.5 | 16, 18 |
|-----|----------------------------|------|------|----------|--------|
| φd  | 7L                         | 0.45 | 0.45 | 0.45     | —      |
|     | 11L~                       | 0.5  | 0.5  | 0.6      | 0.6    |
| F   | 2.0                        | 2.5  | 3.5  | 5.0      | 7.5    |
| φD' | φD+0.5max.                 |      |      |          |        |
| L'  | L+1.5max. (7L : L+1.0max.) |      |      |          |        |

## PART NUMBERING SYSTEM



Please refer to "A guide to global code (radial lead type)"

◆ STANDARD RATINGS

| WV<br>(Vdc) | Cap<br>(μF) | Case size<br>φD×L(mm) | Impedance<br>(Ωmax/100kHz) |       | Rated<br>ripple<br>current<br>(mA rms/<br>105°C,<br>100kHz) | Part No.           |
|-------------|-------------|-----------------------|----------------------------|-------|-------------------------------------------------------------|--------------------|
|             |             |                       | 20°C                       | -10°C |                                                             |                    |
| 6.3         | 68          | 5 × 7                 | 0.43                       | 1.3   | 210                                                         | EKZE6R3E□□680ME07D |
|             | 150         | 6.3 × 7               | 0.23                       | 0.69  | 300                                                         | EKZE6R3E□□151MF07D |
|             | 150         | 5 × 11                | 0.30                       | 1.0   | 250                                                         | EKZE6R3E□□151ME11D |
|             | 220         | 8 × 7                 | 0.15                       | 0.45  | 380                                                         | EKZE6R3E□□221MH07D |
|             | 330         | 6.3 × 11              | 0.13                       | 0.41  | 405                                                         | EKZE6R3E□□331MF11D |
|             | 560         | 8 × 11.5              | 0.072                      | 0.22  | 760                                                         | EKZE6R3E□□561MHB5D |
|             | 820         | 8 × 15                | 0.056                      | 0.17  | 995                                                         | EKZE6R3E□□821MH15D |
|             | 1000        | 10 × 12.5             | 0.053                      | 0.16  | 1030                                                        | EKZE6R3E□□102MJC5S |
|             | 1200        | 8 × 20                | 0.041                      | 0.13  | 1250                                                        | EKZE6R3E□□122MH20D |
|             | 1200        | 10 × 16               | 0.038                      | 0.12  | 1430                                                        | EKZE6R3E□□122MJ16S |
|             | 1500        | 10 × 20               | 0.023                      | 0.069 | 1820                                                        | EKZE6R3E□□152MJ20S |
|             | 2200        | 10 × 25               | 0.022                      | 0.066 | 2150                                                        | EKZE6R3E□□222MJ25S |
|             | 3300        | 12.5 × 20             | 0.021                      | 0.053 | 2360                                                        | EKZE6R3E□□332MK20S |
|             | 3900        | 12.5 × 25             | 0.018                      | 0.045 | 2770                                                        | EKZE6R3E□□392MK25S |
|             | 4700        | 12.5 × 30             | 0.016                      | 0.041 | 3290                                                        | EKZE6R3E□□472MK30S |
|             | 5600        | 12.5 × 35             | 0.015                      | 0.039 | 3400                                                        | EKZE6R3E□□562MK35S |
|             | 5600        | 16 × 20               | 0.018                      | 0.045 | 3140                                                        | EKZE6R3E□□562ML20S |
|             | 6800        | 16 × 25               | 0.016                      | 0.043 | 3460                                                        | EKZE6R3E□□682ML25S |
| 10          | 56          | 5 × 7                 | 0.44                       | 1.4   | 210                                                         | EKZE100E□□560ME07D |
|             | 100         | 5 × 11                | 0.30                       | 1.0   | 250                                                         | EKZE100E□□101ME11D |
|             | 120         | 6.3 × 7               | 0.23                       | 0.69  | 300                                                         | EKZE100E□□121MF07D |
|             | 180         | 8 × 7                 | 0.15                       | 0.45  | 380                                                         | EKZE100E□□181MH07D |
|             | 220         | 6.3 × 11              | 0.13                       | 0.41  | 405                                                         | EKZE100E□□221MF11D |
|             | 470         | 8 × 11.5              | 0.072                      | 0.22  | 760                                                         | EKZE100E□□471MHB5D |
|             | 680         | 8 × 15                | 0.056                      | 0.17  | 995                                                         | EKZE100E□□681MH15D |
|             | 680         | 10 × 12.5             | 0.053                      | 0.16  | 1030                                                        | EKZE100E□□681MJC5S |
|             | 1000        | 8 × 20                | 0.041                      | 0.13  | 1250                                                        | EKZE100E□□102MH20D |
|             | 1000        | 10 × 16               | 0.038                      | 0.12  | 1430                                                        | EKZE100E□□102MJ16S |
|             | 1200        | 10 × 20               | 0.023                      | 0.069 | 1820                                                        | EKZE100E□□122MJ20S |
|             | 1500        | 10 × 25               | 0.022                      | 0.066 | 2150                                                        | EKZE100E□□152MJ25S |
|             | 2200        | 12.5 × 20             | 0.021                      | 0.053 | 2360                                                        | EKZE100E□□222MK20S |
|             | 3300        | 12.5 × 25             | 0.018                      | 0.045 | 2770                                                        | EKZE100E□□332MK25S |
|             | 3900        | 12.5 × 30             | 0.016                      | 0.041 | 3290                                                        | EKZE100E□□392MK30S |
|             | 3900        | 16 × 20               | 0.018                      | 0.045 | 3140                                                        | EKZE100E□□392ML20S |
|             | 4700        | 12.5 × 35             | 0.015                      | 0.039 | 3400                                                        | EKZE100E□□472MK35S |
|             | 5600        | 16 × 25               | 0.016                      | 0.043 | 3460                                                        | EKZE100E□□562ML25S |
| 16          | 33          | 5 × 7                 | 0.45                       | 1.4   | 210                                                         | EKZE160E□□330ME07D |
|             | 56          | 5 × 11                | 0.30                       | 1.0   | 250                                                         | EKZE160E□□560ME11D |
|             | 68          | 6.3 × 7               | 0.24                       | 0.72  | 300                                                         | EKZE160E□□680MF07D |
|             | 120         | 8 × 7                 | 0.15                       | 0.45  | 380                                                         | EKZE160E□□121MH07D |
|             | 120         | 6.3 × 11              | 0.13                       | 0.41  | 405                                                         | EKZE160E□□121MF11D |
|             | 330         | 8 × 11.5              | 0.072                      | 0.22  | 760                                                         | EKZE160E□□331MHB5D |
|             | 470         | 8 × 15                | 0.056                      | 0.17  | 995                                                         | EKZE160E□□471MH15D |
|             | 470         | 10 × 12.5             | 0.053                      | 0.16  | 1030                                                        | EKZE160E□□471MJC5S |
|             | 680         | 8 × 20                | 0.041                      | 0.13  | 1250                                                        | EKZE160E□□681MH20D |
|             | 680         | 10 × 16               | 0.038                      | 0.12  | 1430                                                        | EKZE160E□□681MJ16S |
|             | 1000        | 10 × 20               | 0.023                      | 0.069 | 1820                                                        | EKZE160E□□102MJ20S |
|             | 1200        | 10 × 25               | 0.022                      | 0.066 | 2150                                                        | EKZE160E□□122MJ25S |
|             | 1500        | 12.5 × 20             | 0.021                      | 0.053 | 2360                                                        | EKZE160E□□152MK20S |
|             | 2200        | 12.5 × 25             | 0.018                      | 0.045 | 2770                                                        | EKZE160E□□222MK25S |
|             | 2700        | 12.5 × 30             | 0.016                      | 0.041 | 3290                                                        | EKZE160E□□272MK30S |
|             | 2700        | 16 × 20               | 0.018                      | 0.045 | 3140                                                        | EKZE160E□□272ML20S |
|             | 3300        | 12.5 × 35             | 0.015                      | 0.039 | 3400                                                        | EKZE160E□□332MK35S |
|             | 3900        | 16 × 25               | 0.016                      | 0.043 | 3460                                                        | EKZE160E□□392ML25S |
| 25          | 27          | 5 × 7                 | 0.46                       | 1.4   | 210                                                         | EKZE250E□□270ME07D |
|             | 47          | 5 × 11                | 0.30                       | 1.0   | 250                                                         | EKZE250E□□470ME11D |
|             | 56          | 6.3 × 7               | 0.24                       | 0.72  | 300                                                         | EKZE250E□□560MF07D |
|             | 100         | 8 × 7                 | 0.15                       | 0.45  | 380                                                         | EKZE250E□□101MH07D |
|             | 100         | 6.3 × 11              | 0.13                       | 0.41  | 405                                                         | EKZE250E□□101MF11D |
|             | 220         | 8 × 11.5              | 0.072                      | 0.22  | 760                                                         | EKZE250E□□221MHB5D |
|             | 330         | 8 × 15                | 0.056                      | 0.17  | 995                                                         | EKZE250E□□331MH15D |
|             | 330         | 10 × 12.5             | 0.053                      | 0.16  | 1030                                                        | EKZE250E□□331MJC5S |
|             | 470         | 8 × 20                | 0.041                      | 0.13  | 1250                                                        | EKZE250E□□471MH20D |
|             | 470         | 10 × 16               | 0.038                      | 0.12  | 1430                                                        | EKZE250E□□471MJ16S |
|             | 680         | 10 × 20               | 0.023                      | 0.069 | 1820                                                        | EKZE250E□□681MJ20S |
|             | 680         | 10 × 20               | 0.023                      | 0.069 | 1820                                                        | EKZE250E□□681MJ20S |
| 25          | 820         | 10 × 25               | 0.022                      | 0.066 | 2150                                                        | EKZE250E□□821MJ25S |
|             | 1000        | 12.5 × 20             | 0.021                      | 0.053 | 2360                                                        | EKZE250E□□102MK20S |
|             | 1500        | 12.5 × 25             | 0.018                      | 0.045 | 2770                                                        | EKZE250E□□152MK25S |
|             | 1800        | 12.5 × 30             | 0.016                      | 0.041 | 3290                                                        | EKZE250E□□182MK30S |
|             | 1800        | 16 × 20               | 0.018                      | 0.045 | 3140                                                        | EKZE250E□□182ML20S |
|             | 2200        | 12.5 × 35             | 0.015                      | 0.039 | 3400                                                        | EKZE250E□□222MK35S |
|             | 2700        | 16 × 25               | 0.016                      | 0.043 | 3460                                                        | EKZE250E□□272ML25S |
|             | 18          | 5 × 7                 | 0.47                       | 1.5   | 210                                                         | EKZE350E□□180ME07D |
|             | 33          | 5 × 11                | 0.30                       | 1.0   | 250                                                         | EKZE350E□□330ME11D |
|             | 39          | 6.3 × 7               | 0.25                       | 0.75  | 300                                                         | EKZE350E□□390MF07D |
|             | 56          | 8 × 7                 | 0.16                       | 0.48  | 380                                                         | EKZE350E□□560MH07D |
|             | 56          | 6.3 × 11              | 0.13                       | 0.41  | 405                                                         | EKZE350E□□560MF11D |
| 35          | 150         | 8 × 11.5              | 0.072                      | 0.22  | 760                                                         | EKZE350E□□151MHB5D |
|             | 220         | 8 × 15                | 0.056                      | 0.17  | 995                                                         | EKZE350E□□221MH15D |
|             | 220         | 10 × 12.5             | 0.053                      | 0.16  | 1030                                                        | EKZE350E□□221MJC5S |
|             | 270         | 8 × 20                | 0.041                      | 0.13  | 1250                                                        | EKZE350E□□271MH20D |
|             | 330         | 10 × 16               | 0.038                      | 0.12  | 1430                                                        | EKZE350E□□331MJ16S |
|             | 470         | 10 × 20               | 0.023                      | 0.069 | 1820                                                        | EKZE350E□□471MJ20S |
|             | 560         | 10 × 25               | 0.022                      | 0.066 | 2150                                                        | EKZE350E□□561MJ25S |
|             | 680         | 12.5 × 20             | 0.021                      | 0.053 | 2360                                                        | EKZE350E□□681MK20S |
|             | 1000        | 12.5 × 25             | 0.018                      | 0.045 | 2770                                                        | EKZE350E□□102MK25S |
|             | 1200        | 12.5 × 30             | 0.016                      | 0.041 | 3290                                                        | EKZE350E□□122MK30S |
|             | 1200        | 16 × 20               | 0.018                      | 0.045 | 3140                                                        | EKZE350E□□122ML20S |
|             | 1500        | 12.5 × 35             | 0.015                      | 0.039 | 3400                                                        | EKZE350E□□152MK35S |
| 50          | 1800        | 16 × 25               | 0.016                      | 0.043 | 3460                                                        | EKZE350E□□182ML25S |
|             | 10          | 5 × 7                 | 0.50                       | 1.5   | 210                                                         | EKZE500E□□100ME07D |
|             | 22          | 6.3 × 7               | 0.26                       | 0.78  | 300                                                         | EKZE500E□□220MF07D |
|             | 22          | 5 × 11                | 0.34                       | 1.18  | 238                                                         | EKZE500E□□220ME11D |
|             | 33          | 8 × 7                 | 0.17                       | 0.51  | 380                                                         | EKZE500E□□330MH07D |
|             | 56          | 6.3 × 11              | 0.14                       | 0.50  | 385                                                         | EKZE500E□□560MF11D |
|             | 100         | 8 × 11.5              | 0.074                      | 0.22  | 724                                                         | EKZE500E□□101MHB5D |
|             | 120         | 8 × 15                | 0.061                      | 0.18  | 950                                                         | EKZE500E□□121MH15D |
|             | 150         | 10 × 12.5             | 0.061                      | 0.18  | 979                                                         | EKZE500E□□151MJC5S |
|             | 180         | 8 × 20                | 0.046                      | 0.14  | 1190                                                        | EKZE500E□□181MH20D |
|             | 220         | 10 × 16               | 0.042                      | 0.12  | 1370                                                        | EKZE500E□□221MJ16S |
|             | 270         | 10 × 20               | 0.030                      | 0.090 | 1580                                                        | EKZE500E□□271MJ20S |
| 63          | 330         | 10 × 25               | 0.028                      | 0.085 | 1870                                                        | EKZE500E□□331MJ25S |
|             | 470         | 12.5 × 20             | 0.027                      | 0.068 | 2050                                                        | EKZE500E□□471MK20S |
|             | 560         | 12.5 × 25             | 0.023                      | 0.059 | 2410                                                        | EKZE500E□□561MK25S |
|             | 680         | 12.5 × 30             | 0.021                      | 0.052 | 2860                                                        | EKZE500E□□681MK30S |
|             | 820         | 12.5 × 35             | 0.019                      | 0.051 | 2960                                                        | EKZE500E□□821MK35S |
|             | 820         | 16 × 20               | 0.023                      | 0.059 | 2730                                                        | EKZE500E□□821ML20S |
|             | 1000        | 16 × 25               | 0.021                      | 0.056 | 3010                                                        | EKZE500E□□102ML25S |
|             | 15          | 5 × 11                | 0.88                       | 3.5   | 165                                                         | EKZE630E□□150ME11D |
|             | 33          | 6.3 × 11              | 0.35                       | 1.4   | 265                                                         | EKZE630E□□330MF11D |
|             | 56          | 8 × 11.5              | 0.22                       | 0.88  | 500                                                         | EKZE630E□□560MHB5D |
|             | 82          | 8 × 15                | 0.16                       | 0.64  | 665                                                         | EKZE630E□□820MH15D |
|             | 82          | 10 × 12.5             | 0.11                       | 0.44  | 690                                                         | EKZE630E□□820MJC5S |
| 63          | 120         | 8 × 20                | 0.12                       | 0.48  | 820                                                         | EKZE630E□□121MH20D |
|             | 120         | 10 × 16               | 0.076                      | 0.31  | 950                                                         | EKZE630E□□121MJ16S |
|             | 180         | 10 × 20               | 0.056                      | 0.23  | 1150                                                        | EKZE630E□□181MJ20S |
|             | 180         | 12.5 × 16             | 0.072                      | 0.29  | 1150                                                        | EKZE630E□□181MK16S |
|             | 220         | 10 × 25               | 0.046                      | 0.19  | 1350                                                        | EKZE630E□□221MJ25S |
|             | 270         | 12.5 × 20             | 0.041                      | 0.13  | 1500                                                        | EKZE630E□□271MK20S |
|             | 390         | 12.5 × 25             | 0.031                      | 0.093 | 1900                                                        | EKZE630E□□391MK25S |
|             | 470         | 12.5 × 30             | 0.028                      | 0.084 | 2300                                                        | EKZE630E□□471MK30S |
|             | 470         | 16 × 20               | 0.032                      | 0.096 | 2000                                                        | EKZE630E□□471ML20S |
|             | 560         | 12.5 × 35             | 0.024                      | 0.072 | 2500                                                        | EKZE630E□□561MK35S |
|             | 680         | 12.5 × 40             | 0.021                      | 0.063 | 2800                                                        | EKZE630E□□681MK40S |
|             | 680         | 16 × 25               | 0.025                      | 0.075 | 2600                                                        | EKZE630E□□681ML25S |
| 63          | 680         | 18 × 20               | 0.030                      | 0.090 | 2500                                                        | EKZE630E□□681MK20S |
|             | 820         | 16 × 31.5             | 0.021                      | 0.063 | 2850                                                        | EKZE630E□□821MLN3S |
|             | 820         | 18 × 25               | 0.024                      | 0.072 | 2800                                                        | EKZE630E□□821MM25S |
|             | 1000        | 16 × 35.5             | 0.019                      | 0.057 | 2900                                                        | EKZE630E□□102MLP1S |
|             | 1200        | 16 × 40               | 0.018                      | 0.054 | 3400                                                        | EKZE630E□□122ML40S |
|             | 1200        | 16 × 40               | 0.018                      | 0.054 | 3400                                                        | EKZE630E□□122ML40S |

□ : Lead forming / Taping code

◆STANDARD RATINGS

| WV<br>(Vdc) | Cap<br>(μF) | Case size<br>φD×L(mm) | Impedance<br>(Ωmax/100kHz) |       | Rated<br>ripple<br>current<br>(mA <sub>RMS</sub> /105°C,<br>100kHz) | Part No.           |
|-------------|-------------|-----------------------|----------------------------|-------|---------------------------------------------------------------------|--------------------|
|             |             |                       | 20°C                       | -10°C |                                                                     |                    |
| 63          | 1200        | 18 × 31.5             | 0.020                      | 0.060 | 3300                                                                | EKZE630E□□122MMN3S |
|             | 1500        | 18 × 35.5             | 0.018                      | 0.054 | 3400                                                                | EKZE630E□□152MMP1S |
|             | 1800        | 18 × 40               | 0.017                      | 0.051 | 3500                                                                | EKZE630E□□182MM40S |
| 80          | 68          | 10 × 12.5             | 0.17                       | 0.66  | 480                                                                 | EKZE800E□□680MJCS5 |
|             | 100         | 10 × 16               | 0.11                       | 0.47  | 600                                                                 | EKZE800E□□101MJ16S |
|             | 120         | 10 × 20               | 0.084                      | 0.34  | 800                                                                 | EKZE800E□□121MJ20S |
|             | 150         | 10 × 25               | 0.069                      | 0.28  | 900                                                                 | EKZE800E□□151MJ25S |
|             | 150         | 12.5 × 16             | 0.11                       | 0.34  | 750                                                                 | EKZE800E□□151MK16S |
|             | 220         | 12.5 × 20             | 0.062                      | 0.18  | 1100                                                                | EKZE800E□□221MK20S |
|             | 330         | 12.5 × 25             | 0.047                      | 0.14  | 1250                                                                | EKZE800E□□331MK25S |
|             | 330         | 16 × 20               | 0.048                      | 0.15  | 1350                                                                | EKZE800E□□331ML20S |
|             | 390         | 12.5 × 30             | 0.042                      | 0.13  | 1500                                                                | EKZE800E□□391MK30S |
|             | 470         | 12.5 × 35             | 0.036                      | 0.11  | 1650                                                                | EKZE800E□□471MK35S |
|             | 470         | 16 × 25               | 0.038                      | 0.12  | 1700                                                                | EKZE800E□□471ML25S |
|             | 470         | 18 × 20               | 0.045                      | 0.14  | 1500                                                                | EKZE800E□□471MM20S |
|             | 560         | 12.5 × 40             | 0.032                      | 0.095 | 1800                                                                | EKZE800E□□561MK40S |
|             | 680         | 16 × 31.5             | 0.032                      | 0.095 | 1850                                                                | EKZE800E□□681MLN3S |
|             | 680         | 18 × 25               | 0.036                      | 0.11  | 1750                                                                | EKZE800E□□681MM25S |
|             | 820         | 16 × 35.5             | 0.029                      | 0.086 | 2000                                                                | EKZE800E□□821MLP1S |
|             | 820         | 18 × 31.5             | 0.030                      | 0.090 | 1900                                                                | EKZE800E□□821MMN3S |
|             | 1000        | 16 × 40               | 0.027                      | 0.081 | 2200                                                                | EKZE800E□□102ML40S |
|             | 1000        | 18 × 35.5             | 0.027                      | 0.081 | 2200                                                                | EKZE800E□□102MMP1S |
|             | 1200        | 18 × 40               | 0.026                      | 0.077 | 2700                                                                | EKZE800E□□122MM40S |
| WV<br>(Vdc) | Cap<br>(μF) | Case size<br>φD×L(mm) | Impedance<br>(Ωmax/100kHz) |       | Rated<br>ripple<br>current<br>(mA <sub>RMS</sub> /105°C,<br>100kHz) | Part No.           |
|             |             |                       | 20°C                       | -10°C |                                                                     |                    |
| 100         | 6R8         | 5 × 11                | 1.4                        | 5.6   | 125                                                                 | EKZE101E□□6R8ME11D |
|             | 15          | 6.3 × 11              | 0.57                       | 2.3   | 205                                                                 | EKZE101E□□150MF11D |
|             | 27          | 8 × 11.5              | 0.36                       | 1.4   | 355                                                                 | EKZE101E□□270MHB5D |
|             | 39          | 8 × 15                | 0.25                       | 1.0   | 450                                                                 | EKZE101E□□390MH15D |
|             | 47          | 10 × 12.5             | 0.17                       | 0.66  | 480                                                                 | EKZE101E□□470MJCS5 |
|             | 56          | 8 × 20                | 0.19                       | 0.76  | 565                                                                 | EKZE101E□□560MH20D |
|             | 68          | 10 × 16               | 0.11                       | 0.47  | 600                                                                 | EKZE101E□□680MJ16S |
|             | 82          | 10 × 20               | 0.084                      | 0.34  | 800                                                                 | EKZE101E□□820MJ20S |
|             | 100         | 12.5 × 16             | 0.11                       | 0.34  | 750                                                                 | EKZE101E□□101MK16S |
|             | 120         | 10 × 25               | 0.069                      | 0.28  | 900                                                                 | EKZE101E□□121MJ25S |
|             | 150         | 12.5 × 20             | 0.062                      | 0.18  | 1100                                                                | EKZE101E□□151MK20S |
|             | 220         | 12.5 × 25             | 0.047                      | 0.14  | 1250                                                                | EKZE101E□□221MK25S |
|             | 220         | 16 × 20               | 0.048                      | 0.15  | 1350                                                                | EKZE101E□□221ML20S |
|             | 270         | 12.5 × 30             | 0.042                      | 0.13  | 1500                                                                | EKZE101E□□271MK30S |
|             | 330         | 12.5 × 35             | 0.036                      | 0.11  | 1650                                                                | EKZE101E□□331MK35S |
|             | 330         | 16 × 25               | 0.038                      | 0.12  | 1700                                                                | EKZE101E□□331ML25S |
|             | 330         | 18 × 20               | 0.045                      | 0.14  | 1500                                                                | EKZE101E□□331MM20S |
|             | 390         | 12.5 × 40             | 0.032                      | 0.095 | 1800                                                                | EKZE101E□□391MK40S |
|             | 470         | 16 × 31.5             | 0.032                      | 0.095 | 1850                                                                | EKZE101E□□471MLN3S |
|             | 470         | 18 × 25               | 0.036                      | 0.11  | 1750                                                                | EKZE101E□□471MM25S |
|             | 560         | 16 × 35.5             | 0.029                      | 0.086 | 2000                                                                | EKZE101E□□561MLP1S |
|             | 560         | 18 × 31.5             | 0.030                      | 0.090 | 1900                                                                | EKZE101E□□561MMN3S |
|             | 680         | 16 × 40               | 0.027                      | 0.081 | 2200                                                                | EKZE101E□□681ML40S |
|             | 680         | 18 × 35.5             | 0.027                      | 0.081 | 2200                                                                | EKZE101E□□681MMP1S |
|             | 820         | 18 × 40               | 0.026                      | 0.077 | 2700                                                                | EKZE101E□□821MM40S |

□□ : Lead forming / Taping code

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

7L

| Capacitance(μF) | Frequency (Hz) | 120  | 1k   | 10k  | 100k |
|-----------------|----------------|------|------|------|------|
| 10 to 33        |                | 0.42 | 0.70 | 0.90 | 1.00 |
| 39 to 220       |                | 0.50 | 0.73 | 0.92 | 1.00 |

11L to 40L

| Capacitance(μF) | Frequency (Hz) | 120  | 1k   | 10k  | 100k |
|-----------------|----------------|------|------|------|------|
| 6.8 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 |