

**KZN** New!  
Series

- Adoption of innovative high stability electrolyte
- High ripple current and long endurance
- Rated voltage range : 6.3 to 100V<sub>dc</sub>, Capacitance range : 8.2 to 22,000μF
- Endurance with ripple current : 6,000 to 10,000 hours at 105°C
- Non solvent resistant type
- RoHS Compliant

KZN

Higher ripple  
KZM P139



◆ SPECIFICATIONS

| Items                           | Characteristics   |   |             |             |             |              |                                      |
|---------------------------------|---|---|-------------|-------------|-------------|--------------|--------------------------------------|
| Category Temperature Range      | -40 to +105°C   |   |             |             |             |              |                                      |
| Rated Voltage Range             | 6.3 to 100V <sub>dc</sub>   |   |             |             |             |              |                                      |
| Capacitance Tolerance           | ±20% (M) (at 20°C, 120Hz)   |   |             |             |             |              |                                      |
| Leakage Current                 | I=0.01CV or 3μA, whichever is greater.<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)   |   |             |             |             |              |                                      |
| Dissipation Factor (tanδ)       | 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                  |             |             |             |              |                                      |
|                                 | When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)   |   |             |             |             |              |                                      |
| Low Temperature Characteristics | Z(-25°C)/Z(+20°C)   | 2 max.  |             |             |             |              |                                      |
|                                 | Z(-40°C)/Z(+20°C)   | 3 max. (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  | Case size   | φ 5 & φ 6.3 | φ 8×11.5L   | φ 10×12.5L  | φ 8×15L, 20L | φ 10×16L, 20L, 25L<br>φ 12.5 to φ 18 |
|                                 |   | 6.3V <sub>dc</sub>  | 6,000 hours | 8,000 hours | 9,000 hours | 9,000 hours  | 10,000 hours                         |
|                                 |   | 10 to 50V <sub>dc</sub>                                       | 7,000 hours | 9,000 hours | 9,000 hours | 10,000 hours | 10,000 hours                         |
|                                 | 63 to 100V <sub>dc</sub>  | 6,000 hours   | 8,000 hours | 9,000 hours | 9,000 hours | 10,000 hours |                                      |
|                                 | Capacitance change  | ≤ ±25% of the initial value (6.3, 10V <sub>dc</sub> : ≤ ±30%) |             |             |             |              |                                      |
| D.F. (tanδ)                     | ≤ 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 (6.3, 10V <sub>dc</sub> : ≤ ±30%) |             |             |             |              |                                      |
|                                 | D.F. (tanδ)   | ≤ 200% of the initial specified value                         |             |             |             |              |                                      |
|                                 | Leakage current   | ≤ The initial specified value                                 |             |             |             |              |                                      |

◆ DIMENSIONS [mm]

● Terminal Code : E



| φ D | 5             | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
|-----|---------------|-----|-----|-----|------|-----|-----|
| φ d | 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 |
| D'  | φ D + 0.5max. |     |     |     |      |     |     |
| L'  | L + 1.5max.   |     |     |     |      |     |     |

◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (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 <sub>rms</sub> /<br>105°C,<br>100kHz) | Part No.           | 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> /<br>105°C,<br>100kHz) | Part No.           |                    |
|-------------|-------------|-----------------------|----------------------------|-------|---|--------------------|-------------|-------------|-----------------------|----------------------------|-------|---|--------------------|--------------------|
|             |             |                       | 20°C                       | -10°C |   |                    |             |             |                       | 20°C                       | -10°C |   |                    |                    |
|             |             |                       |                            |       |   |                    |             |             |                       |                            |       |   |                    |                    |
| 6.3         | 220         | 5×11                  | 0.38                       | 1.2   | 345   | EKZN6R3E□□221ME11D | 16          | 5,600       | 16×25                 | 0.017                      | 0.051 | 3,810   | EKZN160E□□562ML25S |                    |
|             | 470         | 6.3×11                | 0.17                       | 0.51  | 540   | EKZN6R3E□□471MF11D |             | 6,800       | 16×31.5               | 0.016                      | 0.048 | 4,100   | EKZN160E□□682MLN3S |                    |
|             | 820         | 8×11.5                | 0.075                      | 0.23  | 945   | EKZN6R3E□□821MHB5D |             | 6,800       | 18×25                 | 0.016                      | 0.048 | 3,880   | EKZN160E□□682MM25S |                    |
|             | 1,200       | 8×15                  | 0.059                      | 0.18  | 1,250   | EKZN6R3E□□122MH15D |             | 8,200       | 16×35.5               | 0.014                      | 0.042 | 4,280   | EKZN160E□□822MLP1S |                    |
|             | 1,200       | 10×12.5               | 0.053                      | 0.16  | 1,330   | EKZN6R3E□□122MJC5S |             | 8,200       | 18×31.5               | 0.014                      | 0.042 | 4,190   | EKZN160E□□822MMN3S |                    |
|             | 1,500       | 8×20                  | 0.041                      | 0.13  | 1,500   | EKZN6R3E□□152MJ20S |             | 10,000      | 16×40                 | 0.013                      | 0.039 | 4,580   | EKZN160E□□103ML40S |                    |
|             | 1,800       | 10×16                 | 0.038                      | 0.12  | 1,760   | EKZN6R3E□□182MJ16S |             | 10,000      | 18×35.5               | 0.012                      | 0.036 | 4,380   | EKZN160E□□103MMP1S |                    |
|             | 2,700       | 10×20                 | 0.028                      | 0.084 | 1,960   | EKZN6R3E□□272MJ20S |             | 12,000      | 18×40                 | 0.011                      | 0.033 | 4,960   | EKZN160E□□123MM40S |                    |
|             | 2,700       | 12.5×16               | 0.035                      | 0.11  | 1,900   | EKZN6R3E□□272MK16S |             | 25          | 68                    | 5×11                       | 0.38  | 1.2   | 450                | EKZN250E□□680ME11D |
|             | 3,300       | 10×25                 | 0.026                      | 0.072 | 2,250   | EKZN6R3E□□332MJ25S |             |             | 150                   | 6.3×11                     | 0.17  | 0.51  | 700                | EKZN250E□□151MF11D |
|             | 3,900       | 12.5×20               | 0.025                      | 0.075 | 2,480   | EKZN6R3E□□392MK20S |             |             | 270                   | 8×11.5                     | 0.075 | 0.23  | 1,200              | EKZN250E□□271MHB5D |
|             | 5,600       | 12.5×25               | 0.019                      | 0.057 | 2,900   | EKZN6R3E□□562MK25S |             |             | 470                   | 8×15                       | 0.059 | 0.18  | 1,600              | EKZN250E□□471MH15D |
|             | 6,800       | 12.5×30               | 0.018                      | 0.054 | 3,450   | EKZN6R3E□□682MK30S |             |             | 470                   | 10×12.5                    | 0.053 | 0.16  | 1,700              | EKZN250E□□471MJC5S |
|             | 6,800       | 16×20                 | 0.021                      | 0.063 | 3,250   | EKZN6R3E□□682ML20S |             |             | 560                   | 8×20                       | 0.041 | 0.13  | 1,960              | EKZN250E□□561MH20D |
|             | 8,200       | 12.5×35               | 0.016                      | 0.048 | 3,570   | EKZN6R3E□□822MK35S |             |             | 680                   | 10×16                      | 0.038 | 0.12  | 2,000              | EKZN250E□□681MJ16S |
|             | 8,200       | 18×20                 | 0.020                      | 0.060 | 3,450   | EKZN6R3E□□822MM20S |             |             | 820                   | 10×20                      | 0.028 | 0.084   | 2,500              | EKZN250E□□821MJ20S |
|             | 10,000      | 16×25                 | 0.017                      | 0.051 | 3,630   | EKZN6R3E□□103ML25S |             |             | 1,000                 | 12.5×16                    | 0.035 | 0.11  | 2,400              | EKZN250E□□102MK16S |
|             | 12,000      | 16×31.5               | 0.016                      | 0.048 | 4,100   | EKZN6R3E□□123MLN3S |             |             | 1,200                 | 10×25                      | 0.026 | 0.072   | 2,900              | EKZN250E□□122MJ25S |
|             | 12,000      | 18×25                 | 0.016                      | 0.048 | 3,880   | EKZN6R3E□□123MM25S |             |             | 1,500                 | 12.5×20                    | 0.025 | 0.075   | 2,600              | EKZN250E□□122MK20S |
|             | 15,000      | 16×35.5               | 0.014                      | 0.042 | 4,280   | EKZN6R3E□□153MLP1S |             |             | 1,800                 | 12.5×25                    | 0.019 | 0.057   | 3,200              | EKZN250E□□182MK25S |
|             | 15,000      | 18×31.5               | 0.014                      | 0.042 | 4,190   | EKZN6R3E□□153MMN3S |             |             | 2,200                 | 12.5×30                    | 0.018 | 0.054   | 3,660              | EKZN250E□□222MK30S |
|             | 18,000      | 16×40                 | 0.013                      | 0.039 | 4,580   | EKZN6R3E□□183ML40S |             |             | 2,200                 | 16×20                      | 0.021 | 0.063   | 3,330              | EKZN250E□□222ML20S |
| 18,000      | 18×35.5     | 0.012                 | 0.036                      | 4,380 | EKZN6R3E□□183MMP1S  | 2,700              | 12.5×35     |             | 0.016                 | 0.048                      | 4,120 | EKZN250E□□272MK35S  |                    |                    |
| 22,000      | 18×40       | 0.011                 | 0.033                      | 4,960 | EKZN6R3E□□223MM40S  | 3,300              | 16×25       |             | 0.017                 | 0.051                      | 3,810 | EKZN250E□□332ML25S  |                    |                    |
| 10          | 150         | 5×11                  | 0.38                       | 1.2   | 450   | EKZN100E□□151ME11D | 3,300       |             | 18×20                 | 0.020                      | 0.060 | 3,450   | EKZN250E□□332MM20S |                    |
|             | 330         | 6.3×11                | 0.17                       | 0.51  | 700   | EKZN100E□□331MF11D | 4,700       |             | 16×31.5               | 0.016                      | 0.048 | 4,100   | EKZN250E□□472MLN3S |                    |
|             | 560         | 8×11.5                | 0.075                      | 0.23  | 1,200   | EKZN100E□□561MHB5D | 4,700       |             | 18×25                 | 0.016                      | 0.048 | 3,880   | EKZN250E□□472MM25S |                    |
|             | 820         | 8×15                  | 0.059                      | 0.18  | 1,600   | EKZN100E□□821MH15D | 5,600       |             | 16×35.5               | 0.014                      | 0.042 | 4,280   | EKZN250E□□562MLP1S |                    |
|             | 1,000       | 8×20                  | 0.041                      | 0.13  | 1,960   | EKZN100E□□102MH20D | 5,600       |             | 18×31.5               | 0.014                      | 0.042 | 4,190   | EKZN250E□□562MMN3S |                    |
|             | 1,000       | 10×12.5               | 0.053                      | 0.16  | 1,700   | EKZN100E□□102MJC5S | 6,800       |             | 16×40                 | 0.013                      | 0.039 | 4,580   | EKZN250E□□682ML40S |                    |
|             | 1,200       | 10×16                 | 0.038                      | 0.12  | 2,000   | EKZN100E□□122MJ16S | 6,800       | 18×35.5     | 0.012                 | 0.036                      | 4,380 | EKZN250E□□682MMP1S  |                    |                    |
|             | 1,800       | 10×20                 | 0.028                      | 0.084 | 2,500   | EKZN100E□□182MJ20S | 8,200       | 18×40       | 0.011                 | 0.033                      | 4,960 | EKZN250E□□822MM40S  |                    |                    |
|             | 1,800       | 12.5×16               | 0.035                      | 0.11  | 2,400   | EKZN100E□□182MK16S | 35          | 47          | 5×11                  | 0.38                       | 1.2   | 450   | EKZN350E□□470ME11D |                    |
|             | 2,200       | 10×25                 | 0.026                      | 0.072 | 2,900   | EKZN100E□□222MJ25S |             | 100         | 6.3×11                | 0.17                       | 0.51  | 700   | EKZN350E□□101MF11D |                    |
|             | 2,700       | 12.5×20               | 0.025                      | 0.075 | 2,600   | EKZN100E□□272MK20S |             | 180         | 8×11.5                | 0.075                      | 0.23  | 1,200   | EKZN350E□□181MHB5D |                    |
|             | 3,900       | 12.5×25               | 0.019                      | 0.057 | 3,200   | EKZN100E□□392MK25S |             | 220         | 8×15                  | 0.059                      | 0.18  | 1,600   | EKZN350E□□221MH15D |                    |
|             | 4,700       | 12.5×30               | 0.018                      | 0.054 | 3,660   | EKZN100E□□472MK30S |             | 270         | 10×12.5               | 0.053                      | 0.16  | 1,700   | EKZN350E□□271MJC5S |                    |
|             | 4,700       | 16×20                 | 0.021                      | 0.063 | 3,330   | EKZN100E□□472ML20S |             | 330         | 8×20                  | 0.041                      | 0.13  | 1,960   | EKZN350E□□331MH20D |                    |
|             | 5,600       | 12.5×35               | 0.016                      | 0.048 | 4,120   | EKZN100E□□562MK35S |             | 390         | 10×16                 | 0.038                      | 0.12  | 2,000   | EKZN350E□□391MJ16S |                    |
|             | 5,600       | 18×20                 | 0.020                      | 0.060 | 3,450   | EKZN100E□□562MM20S |             | 470         | 10×20                 | 0.028                      | 0.084 | 2,500   | EKZN350E□□471MJ20S |                    |
|             | 6,800       | 16×25                 | 0.017                      | 0.051 | 3,810   | EKZN100E□□682ML25S |             | 560         | 12.5×16               | 0.035                      | 0.11  | 2,400   | EKZN350E□□561MK16S |                    |
|             | 8,200       | 16×31.5               | 0.016                      | 0.048 | 4,100   | EKZN100E□□822MLN3S |             | 680         | 10×25                 | 0.026                      | 0.072 | 2,900   | EKZN350E□□681MJ25S |                    |
|             | 8,200       | 18×25                 | 0.016                      | 0.048 | 3,880   | EKZN100E□□822MM25S |             | 820         | 12.5×20               | 0.025                      | 0.075 | 2,600   | EKZN350E□□821MK20S |                    |
|             | 10,000      | 16×35.5               | 0.014                      | 0.042 | 4,280   | EKZN100E□□103MLP1S |             | 1,200       | 12.5×25               | 0.019                      | 0.057 | 3,200   | EKZN350E□□122MK25S |                    |
|             | 10,000      | 18×31.5               | 0.014                      | 0.042 | 4,190   | EKZN100E□□103MMN3S |             | 1,500       | 12.5×30               | 0.018                      | 0.054 | 3,660   | EKZN350E□□152MK30S |                    |
|             | 12,000      | 16×40                 | 0.013                      | 0.039 | 4,580   | EKZN100E□□123ML40S |             | 1,500       | 16×20                 | 0.021                      | 0.063 | 3,330   | EKZN350E□□152ML20S |                    |
| 12,000      | 18×35.5     | 0.012                 | 0.036                      | 4,380 | EKZN100E□□123MMP1S  | 1,800              |             | 12.5×35     | 0.016                 | 0.048                      | 4,120 | EKZN350E□□182MK35S  |                    |                    |
| 15,000      | 18×40       | 0.011                 | 0.033                      | 4,960 | EKZN100E□□153MM40S  | 1,800              |             | 16×25       | 0.017                 | 0.051                      | 3,810 | EKZN350E□□182ML25S  |                    |                    |
| 16          | 120         | 5×11                  | 0.38                       | 1.2   | 450   | EKZN160E□□121ME11D |             | 1,800       | 18×20                 | 0.020                      | 0.060 | 3,450   | EKZN350E□□182MM20S |                    |
|             | 270         | 6.3×11                | 0.17                       | 0.51  | 700   | EKZN160E□□271MF11D |             | 2,700       | 16×31.5               | 0.016                      | 0.048 | 4,100   | EKZN350E□□272MLN3S |                    |
|             | 470         | 8×11.5                | 0.075                      | 0.23  | 1,200   | EKZN160E□□471MHB5D |             | 2,700       | 18×25                 | 0.016                      | 0.048 | 3,880   | EKZN350E□□272MM25S |                    |
|             | 680         | 8×15                  | 0.059                      | 0.18  | 1,600   | EKZN160E□□681MH15D |             | 3,300       | 16×35.5               | 0.014                      | 0.042 | 4,280   | EKZN350E□□332MLP1S |                    |
|             | 680         | 10×12.5               | 0.053                      | 0.16  | 1,700   | EKZN160E□□681MJC5S |             | 3,300       | 18×31.5               | 0.014                      | 0.042 | 4,190   | EKZN350E□□332MMN3S |                    |
|             | 820         | 8×20                  | 0.041                      | 0.13  | 1,960   | EKZN160E□□821MH20D |             | 3,900       | 16×40                 | 0.013                      | 0.039 | 4,580   | EKZN350E□□392ML40S |                    |
|             | 1,000       | 10×16                 | 0.038                      | 0.12  | 2,000   | EKZN160E□□102MJ16S | 3,900       | 18×35.5     | 0.012                 | 0.036                      | 4,380 | EKZN350E□□392MMP1S  |                    |                    |
|             | 1,500       | 10×20                 | 0.028                      | 0.084 | 2,500   | EKZN160E□□152MJ20S | 4,700       | 18×40       | 0.011                 | 0.033                      | 4,960 | EKZN350E□□472MM40S  |                    |                    |
|             | 1,500       | 12.5×16               | 0.035                      | 0.11  | 2,400   | EKZN160E□□152MK16S | 50          | 27          | 5×11                  | 0.40                       | 1.3   | 450   | EKZN500E□□270ME11D |                    |
|             | 1,800       | 10×25                 | 0.026                      | 0.072 | 2,900   | EKZN160E□□182MJ25S |             | 56          | 6.3×11                | 0.18                       | 0.54  | 700   | EKZN500E□□560MF11D |                    |
|             | 2,200       | 12.5×20               | 0.025                      | 0.075 | 2,600   | EKZN160E□□222MK20S |             | 100         | 8×11.5                | 0.085                      | 0.26  | 1,200   | EKZN500E□□101MHB5D |                    |
|             | 2,700       | 12.5×25               | 0.019                      | 0.057 | 3,200   | EKZN160E□□272MK25S |             | 120         | 8×15                  | 0.065                      | 0.20  | 1,600   | EKZN500E□□121MH15D |                    |
|             | 3,300       | 12.5×30               | 0.018                      | 0.054 | 3,660   | EKZN160E□□332MK30S |             | 150         | 10×12.5               | 0.073                      | 0.22  | 1,280   | EKZN500E□□151MJC5S |                    |
|             | 3,900       | 12.5×35               | 0.016                      | 0.048 | 4,120   | EKZN160E□□392MK35S |             | 180         | 8×20                  | 0.049                      | 0.16  | 1,960   | EKZN500E□□181MH20D |                    |
|             | 3,900       | 16×20                 | 0.021                      | 0.063 | 3,330   | EKZN160E□□392ML20S |             | 220         | 10×16                 | 0.053                      | 0.16  | 1,650   | EKZN500E□□221MJ16S |                    |
|             | 4,700       | 18×20                 | 0.020                      | 0.060 | 3,450   | EKZN160E□□472MM20S |             | 330         | 10×20                 | 0.038                      | 0.12  | 2,060   | EKZN500E□□331MJ20S |                    |

□□ : Enter the appropriate lead forming or 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> /<br>105°C,<br>100kHz) | Part No.           | 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> /<br>105°C,<br>100kHz) | Part No.           |
|-------------|-------------|-----------------------|----------------------------|-------|---|--------------------|-------------|-------------|-----------------------|----------------------------|--------------------|---|--------------------|
|             |             |                       | 20°C                       | -10°C |   |                    |             |             |                       | 20°C                       | -10°C              |   |                    |
|             |             |                       |                            |       |   |                    |             |             |                       |                            |                    |   |                    |
| 50          | 330         | 12.5×16               | 0.045                      | 0.14  | 2,160   | EKZN500E□□331MK16S | 80          | 82          | 8×20                  | 0.12                       | 0.54               | 1,040   | EKZN800E□□820MH20D |
|             | 390         | 10×25                 | 0.032                      | 0.10  | 2,420   | EKZN500E□□391MJ25S |             | 82          | 10×12.5               | 0.14                       | 0.56               | 780   | EKZN800E□□820MJC5S |
|             | 470         | 12.5×20               | 0.032                      | 0.10  | 2,300   | EKZN500E□□471MK20S |             | 120         | 10×16                 | 0.090                      | 0.36               | 1,040   | EKZN800E□□121MJ16S |
|             | 680         | 12.5×25               | 0.025                      | 0.080 | 2,800   | EKZN500E□□681MK25S |             | 180         | 10×20                 | 0.068                      | 0.28               | 1,430   | EKZN800E□□181MJ20S |
|             | 820         | 12.5×30               | 0.023                      | 0.074 | 3,370   | EKZN500E□□821MK30S |             | 180         | 12.5×16               | 0.090                      | 0.27               | 1,430   | EKZN800E□□181MK16S |
|             | 820         | 16×20                 | 0.026                      | 0.084 | 3,070   | EKZN500E□□821ML20S |             | 220         | 10×25                 | 0.055                      | 0.22               | 1,620   | EKZN800E□□821ML25S |
|             | 1,000       | 12.5×35               | 0.021                      | 0.067 | 3,810   | EKZN500E□□102MK35S |             | 270         | 12.5×20               | 0.048                      | 0.15               | 1,750   | EKZN800E□□271MK20S |
|             | 1,200       | 16×25                 | 0.022                      | 0.070 | 3,510   | EKZN500E□□122ML25S |             | 390         | 12.5×25               | 0.038                      | 0.12               | 2,210   | EKZN800E□□391MK25S |
|             | 1,200       | 18×20                 | 0.025                      | 0.075 | 3,120   | EKZN500E□□122MM20S |             | 470         | 12.5×30               | 0.033                      | 0.11               | 2,400   | EKZN800E□□471MK30S |
|             | 1,500       | 16×31.5               | 0.019                      | 0.057 | 4,030   | EKZN500E□□152MLN3S |             | 470         | 16×20                 | 0.036                      | 0.12               | 1,950   | EKZN800E□□471ML20S |
|             | 1,500       | 18×25                 | 0.021                      | 0.063 | 3,530   | EKZN500E□□152MM25S |             | 560         | 12.5×35               | 0.026                      | 0.078              | 2,600   | EKZN800E□□561MK35S |
|             | 1,800       | 16×35.5               | 0.016                      | 0.048 | 4,220   | EKZN500E□□182MLP1S |             | 680         | 16×25                 | 0.028                      | 0.084              | 2,430   | EKZN800E□□681ML25S |
|             | 2,200       | 16×40                 | 0.014                      | 0.042 | 4,500   | EKZN500E□□222ML40S |             | 680         | 18×20                 | 0.032                      | 0.096              | 2,270   | EKZN800E□□681MM20S |
|             | 2,200       | 18×31.5               | 0.016                      | 0.048 | 4,080   | EKZN500E□□222MMN3S |             | 820         | 16×31.5               | 0.022                      | 0.066              | 2,640   | EKZN800E□□821MLN3S |
|             | 2,700       | 18×35.5               | 0.013                      | 0.039 | 4,270   | EKZN500E□□272MMP1S |             | 820         | 18×25                 | 0.027                      | 0.081              | 2,500   | EKZN800E□□821MM25S |
| 3,300       | 18×40       | 0.012                 | 0.036                      | 4,850 | EKZN500E□□332MM40S  | 1,000              | 16×35.5     | 0.020       | 0.060                 | 2,860                      | EKZN800E□□102MLP1S |   |                    |
| 63          | 18          | 5×11                  | 0.52                       | 2.3   | 240   | EKZN630E□□180ME11D | 1,200       | 16×40       | 0.018                 | 0.054                      | 3,510              | EKZN800E□□122ML40S  |                    |
|             | 39          | 6.3×11                | 0.24                       | 1.1   | 420   | EKZN630E□□390MF11D | 1,200       | 18×31.5     | 0.020                 | 0.060                      | 2,860              | EKZN800E□□122MMN3S  |                    |
|             | 68          | 8×11.5                | 0.15                       | 0.68  | 720   | EKZN630E□□680MHB5D | 1,500       | 18×35.5     | 0.018                 | 0.054                      | 3,510              | EKZN800E□□152MMP1S  |                    |
|             | 100         | 8×15                  | 0.10                       | 0.45  | 990   | EKZN630E□□101MH15D | 1,800       | 18×40       | 0.017                 | 0.051                      | 3,860              | EKZN800E□□182MM40S  |                    |
|             | 120         | 8×20                  | 0.077                      | 0.35  | 1,200   | EKZN630E□□121MH20D | 100         | 8.2         | 5×11                  | 0.72                       | 3.2                | 220   | EKZN101E□□8R2ME11D |
|             | 120         | 10×12.5               | 0.090                      | 0.36  | 990   | EKZN630E□□121MJC5S |             | 18          | 6.3×11                | 0.34                       | 1.5                | 370   | EKZN101E□□180MF11D |
|             | 180         | 10×16                 | 0.061                      | 0.25  | 1,200   | EKZN630E□□181MJ16S |             | 33          | 8×11.5                | 0.20                       | 0.90               | 620   | EKZN101E□□330MHB5D |
|             | 270         | 10×20                 | 0.045                      | 0.18  | 1,570   | EKZN630E□□271MJ20S |             | 47          | 8×15                  | 0.14                       | 0.63               | 780   | EKZN101E□□470MH15D |
|             | 270         | 12.5×16               | 0.058                      | 0.18  | 1,570   | EKZN630E□□271MK16S |             | 56          | 8×20                  | 0.12                       | 0.54               | 1,040   | EKZN101E□□560MH20D |
|             | 330         | 10×25                 | 0.037                      | 0.12  | 1,990   | EKZN630E□□331MJ25S |             | 56          | 10×12.5               | 0.14                       | 0.56               | 780   | EKZN101E□□560MJC5S |
|             | 390         | 12.5×20               | 0.033                      | 0.10  | 1,990   | EKZN630E□□391MK20S |             | 82          | 10×16                 | 0.090                      | 0.36               | 1,040   | EKZN101E□□820MJ16S |
|             | 560         | 12.5×25               | 0.026                      | 0.080 | 2,460   | EKZN630E□□561MK25S |             | 100         | 10×20                 | 0.068                      | 0.28               | 1,430   | EKZN101E□□101MJ20S |
|             | 680         | 12.5×30               | 0.024                      | 0.075 | 2,760   | EKZN630E□□681MK30S |             | 120         | 12.5×16               | 0.090                      | 0.27               | 1,430   | EKZN101E□□121MK16S |
|             | 680         | 16×20                 | 0.027                      | 0.085 | 2,380   | EKZN630E□□681ML20S |             | 150         | 10×25                 | 0.055                      | 0.22               | 1,620   | EKZN101E□□151MJ25S |
|             | 820         | 12.5×35               | 0.022                      | 0.068 | 3,040   | EKZN630E□□821MK35S |             | 180         | 12.5×20               | 0.048                      | 0.15               | 1,750   | EKZN101E□□181MK20S |
| 820         | 18×20       | 0.026                 | 0.078                      | 2,530 | EKZN630E□□821MM20S  | 220                |             | 12.5×25     | 0.038                 | 0.12                       | 2,210              | EKZN101E□□221MK25S  |                    |
| 1,000       | 16×25       | 0.024                 | 0.072                      | 2,890 | EKZN630E□□102ML25S  | 270                |             | 12.5×30     | 0.033                 | 0.11                       | 2,400              | EKZN101E□□271MK30S  |                    |
| 1,200       | 16×31.5     | 0.020                 | 0.060                      | 3,280 | EKZN630E□□122MLN3S  | 270                |             | 16×20       | 0.036                 | 0.12                       | 1,950              | EKZN101E□□271ML20S  |                    |
| 1,200       | 18×25       | 0.022                 | 0.066                      | 2,930 | EKZN630E□□122MM25S  | 390                |             | 12.5×35     | 0.026                 | 0.078                      | 2,600              | EKZN101E□□391MK35S  |                    |
| 1,500       | 16×35.5     | 0.018                 | 0.054                      | 3,440 | EKZN630E□□152MLP1S  | 390                | 16×25       | 0.028       | 0.084                 | 2,430                      | EKZN101E□□391ML25S |   |                    |
| 1,500       | 18×31.5     | 0.018                 | 0.054                      | 3,380 | EKZN630E□□152MMN3S  | 390                | 18×20       | 0.032       | 0.096                 | 2,270                      | EKZN101E□□391MM20S |   |                    |
| 1,800       | 16×40       | 0.016                 | 0.048                      | 3,690 | EKZN630E□□182ML40S  | 470                | 16×31.5     | 0.022       | 0.066                 | 2,640                      | EKZN101E□□471MLN3S |   |                    |
| 1,800       | 18×35.5     | 0.017                 | 0.051                      | 3,550 | EKZN630E□□182MMP1S  | 560                | 16×35.5     | 0.020       | 0.060                 | 2,860                      | EKZN101E□□561MMP1S |   |                    |
| 2,200       | 18×40       | 0.015                 | 0.045                      | 3,930 | EKZN630E□□222MM40S  | 560                | 18×25       | 0.027       | 0.081                 | 2,500                      | EKZN101E□□561MM25S |   |                    |
| 80          | 12          | 5×11                  | 0.72                       | 3.2   | 220   | EKZN800E□□120ME11D | 680         | 16×40       | 0.018                 | 0.054                      | 3,510              | EKZN101E□□681ML40S  |                    |
|             | 27          | 6.3×11                | 0.34                       | 1.5   | 370   | EKZN800E□□270MF11D | 680         | 18×31.5     | 0.020                 | 0.060                      | 2,860              | EKZN101E□□681MMN3S  |                    |
|             | 47          | 8×11.5                | 0.20                       | 0.90  | 620   | EKZN800E□□470MHB5D | 820         | 18×35.5     | 0.018                 | 0.054                      | 3,510              | EKZN101E□□821MMP1S  |                    |
|             | 68          | 8×15                  | 0.14                       | 0.63  | 780   | EKZN800E□□680MH15D | 1,000       | 18×40       | 0.017                 | 0.051                      | 3,860              | EKZN101E□□102MM40S  |                    |

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

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Capacitance (μF) | Frequency (Hz) |      |      |      |
|------------------|----------------|------|------|------|
|                  | 120            | 1k   | 10k  | 100k |
| 8.2 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 22,000  | 0.85           | 0.95 | 0.98 | 1.00 |

Note : 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.



**Стандарт  
Электрон  
Связь**

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