

KZN New!
Series

- Adoption of innovative high stability electrolyte
- High ripple current and long endurance
- Rated voltage range : 6.3 to 100V_{dc}, 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 _{dc} | | | | | | | | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | | | | | | | |
| Leakage Current | 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) | | | | | | | | | |
| Dissipation Factor (tanδ) | Rated voltage (V _{dc}) | 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 φ 12.5 to φ 18 | | | |
| | | 6.3V _{dc} | 6,000 hours | 8,000 hours | 9,000 hours | 9,000 hours | 10,000 hours | | | |
| | | 10 to 50V _{dc} | 7,000 hours | 9,000 hours | 9,000 hours | 10,000 hours | 10,000 hours | | | |
| | 63 to 100V _{dc} | 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 _{dc} : ≤ ±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 _{dc} : ≤ ±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 (Vdc) | Cap (µF) | Case size φD×L(mm) | Impedance (Ωmax/100kHz) | | Rated ripple current (mAmps/ 105°C, 100kHz) | Part No. | WV (Vdc) | Cap (µF) | Case size φD×L(mm) | Impedance (Ωmax/100kHz) | | Rated ripple current (mAmps/ 105°C, 100kHz) | Part No. |
|-------------|-------------|-----------------------|--|-------|--|----------|-------------|-------------|-----------------------|----------------------------|-------|--|----------|
| | | | 20°C | -10°C | | | | | | 20°C | -10°C | | |
| | | | Detailed description of the table structure based on the image content This table contains two main sections of capacitor specifications, one for WV ratings 6.3V and 10V, and another for WV ratings 16V, 25V, 35V, and 50V. Each section is a grid of rows representing different capacitor models based on capacitance, case size, and impedance. | | | | | | | | | | |

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

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Case size φD×L(mm) | Impedance (Ωmax/100kHz) | | Rated ripple current (mA _{rms} / 105°C, 100kHz) | Part No. | WV (Vdc) | Cap (μF) | Case size φD×L(mm) | Impedance (Ωmax/100kHz) | | Rated ripple current (mA _{rms} / 105°C, 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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С нами вы становитесь еще успешнее!

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