Aluminum Electrolytic Type / Surface Mount Type **RoHS compliance**

# CE-KX Series

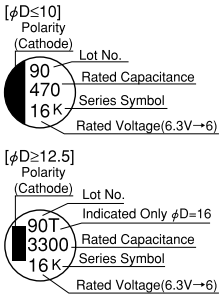
**Low Impedance**

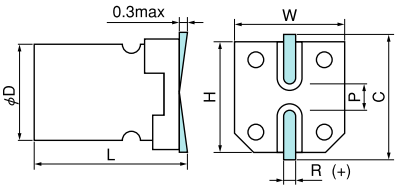
- This series has 10 to 20% less impedance with same package than CE-AX series.
- 105℃, 1,000 to 2,000hrs. ● Solvent proof (within 2 minutes)

## ■ Specifications

| Items | Condition | | Specifications | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Rated voltage (V) | – | | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| Surge voltage (V) | Room temperature | | 8.0 | 13 | 20 | 32 | 44 | 63 | 79 | 100 | 125 |
| Category temperature range (℃) | – | | −55 to +105 | | | | | | | | |
| Capacitance tolerance (%) | 120Hz/20℃ | | M : ±20 | | | | | | | | |
| Dissipation Factor (tan δ) | 120Hz/20℃ | φ4 to φ6.3 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | 0.08 | 0.07 |
| | | φ8 to φ16 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.14 | 0.12 | 0.10 | 0.08 |
| | | | When rated capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. | | | | | | | | |
| Leakage current (LC) | μA/after 2minutes (max) | | The greater value of either 0.01CV or 3 | | | | | | | | |
| Impedance ratio at low temperature | Based the value at 120Hz, +20℃ | −40℃ Z/Z20℃ | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | −55℃ Z/Z20℃ | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |
| Endurance | 105℃ rated voltage applied (With the rated ripple current) | Test | φ4 to φ6.3 : 1,000hrs., φ8 to φ16 : 2,000hrs. | | | | | | | | |
| | | △C/C | Within ±25% of the initial value | | | | | | | | |
| | | tan δ | ≤ 2 times the initial specified value | | | | | | | | |
| | | LC | ≤ The initial specified value | | | | | | | | |

## ■ Marking, Dimensions




A pressure relief vent is attached to products over φD=8

(Unit : mm)

| D+0.5max | L±0.3 | W±0.2 | H±0.2 | C±0.2 | R | P±0.2 |
|---|---|---|---|---|---|---|
| 4 | 6.0 | 4.3 | 4.3 | 5.0 | 0.5 to 0.8 | 1.0 |
| 5 | 6.0 | 5.3 | 5.3 | 6.0 | 0.5 to 0.8 | 1.4 |
| 6.3 | 6.0 | 6.6 | 6.6 | 7.3 | 0.5 to 0.8 | 2.2 |
| 6.3 | 7.7 | 6.6 | 6.6 | 7.3 | 0.5 to 0.8 | 2.2 |
| 8 | 10.2 | 8.3 | 8.3 | 9.0 | 0.7 to 1.0 | 3.2 |
| 10 | 10.2 | 10.3 | 10.3 | 11.0 | 1.0 to 1.4 | 4.6 |
| 12.5 | 13.5±0.5 | 12.8 | 12.8 | 13.5 | 1.0 to 1.4 | 4.6 |
| 16 | 16.5±0.5 | 16.3 | 16.3 | 17.3 | 1.8 to 2.1 | 7.0 |

## ■ Size List, Impedance, Rated Ripple Current

| μF \ V | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.7 | | | | | | | | | | | | | 4×6.0 | 1.45 | 90 |
| 10 | | | | | | | | | | 4×6.0 | 1.45 | 90 | 5×6.0 | 0.70 | 170 |
| 15 | | | | | | | 4×6.0 | 1.45 | 90 | 5×6.0 | 0.70 | 170 | 5×6.0 | 0.70 | 170 |
| 22 | | | | 4×6.0 | 1.45 | 90 | 5×6.0 | 0.70 | 170 | 5×6.0 | 0.70 | 170 | 5×6.0 | 0.70 | 170 |
| 27 | 4×6.0 | 1.45 | 90 | | | | | | | | | | | | |
| 33 | → | | | 5×6.0 | 0.70 | 170 | → | | | 6.3×6.0 | 0.39 | 250 | 6.3×6.0 | 0.39 | 250 |
| 47 | 5×6.0 | 0.70 | 170 | → | | | 6.3×6.0 | 0.39 | 250 | 6.3×6.0 | 0.39 | 250 | 6.3×6.0 | 0.39 | 250 |
| 56 | 5×6.0 | 0.70 | 170 | | | | | | | 6.3×6.0 | 0.39 | 250 | | | |
| 68 | → | | | 6.3×6.0 | 0.39 | 250 | 6.3×6.0 | 0.39 | 250 | 6.3×6.0 | 0.39 | 250 | 6.3×7.7 | 0.30 | 300 |
| 100 | 6.3×6.0 | 0.39 | 250 | → | | | 6.3×6.0 | 0.39 | 250 | 6.3×7.7 | 0.30 | 300 | 8×10.2 | 0.15 | 600 |
| 150 | 6.3×6.0 | 0.39 | 250 | 6.3×6.0 | 0.39 | 250 | 6.3×7.7 | 0.30 | 300 | 8×10.2 | 0.15 | 600 | 8×10.2 | 0.15 | 600 |
| 220 | 6.3×6.0 | 0.39 | 250 | 6.3×7.7 | 0.30 | 300 | 6.3×7.7 | 0.30 | 300 | 8×10.2 | 0.15 | 600 | 8×10.2 | 0.15 | 600 |
| 330 | 6.3×7.7 | 0.30 | 300 | 8×10.2 | 0.15 | 600 | 8×10.2 | 0.15 | 600 | 8×10.2 | 0.15 | 600 | 10×10.2 | 0.080 | 850 |
| 470 | 8×10.2 | 0.15 | 600 | 8×10.2 | 0.15 | 600 | 8×10.2 | 0.15 | 600 | 10×10.2 | 0.080 | 850 | 12.5×13.5 | 0.058 | 1150 |
| 680 | 8×10.2 | 0.15 | 600 | → | | | 10×10.2 | 0.080 | 850 | | | | 12.5×13.5 | 0.058 | 1150 |
| 1000 | 8×10.2 | 0.15 | 600 | 10×10.2 | 0.080 | 850 | | | | 12.5×13.5 | 0.058 | 1150 | 16×16.5 | 0.035 | 1800 |
| 1500 | 10×10.2 | 0.080 | 850 | | | | 12.5×13.5 | 0.058 | 1150 | | | | 16×16.5 | 0.035 | 1800 |
| 2200 | | | | 12.5×13.5 | 0.058 | 1150 | | | | 16×16.5 | 0.035 | 1800 | | | |
| 3300 | 12.5×13.5 | 0.058 | 1150 | | | | 16×16.5 | 0.035 | 1800 | | | | | | |
| 4700 | | | | 16×16.5 | 0.035 | 1800 | | | | | | | | | |
| 6800 | 16×16.5 | 0.035 | 1800 | | | | | | | | | | | | |

| μF \ V | 50 | | | 63 | | | 80 | | | 100 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2 | | | | | | | | | | 6.3×6.0 | 2.70 | 42 |
| 3.3 | | | | | | | | | | 6.3×6.0 | 2.40 | 45 |
| 4.7 | 4×6.0 | 2.55 | 64 | 5×6.0 | 2.00 | 55 | 6.3×6.0 | 2.40 | 45 | 6.3×6.0 | 2.40 | 45 |
| 10 | 6.3×6.0 | 0.52 | 215 | 6.3×6.0 | 1.00 | 90 | 6.3×7.7 | 2.00 | 65 | 6.3×7.7 | 2.00 | 65 |
| 22 | 6.3×6.0 | 0.52 | 215 | 6.3×7.7 | 0.80 | 135 | 8×10.2 | 0.90 | 140 | 8×10.2 | 0.90 | 140 |
| 33 | 6.3×7.7 | 0.44 | 243 | 8×10.2 | 0.35 | 280 | 8×10.2 | 0.90 | 140 | 10×10.2 | 0.50 | 220 |
| 47 | 6.3×7.7 | 0.44 | 243 | 8×10.2 | 0.35 | 280 | 10×10.2 | 0.50 | 220 | 12.5×13.5 | 0.24 | 500 |
| 68 | | | | | | | 12.5×13.5 | 0.24 | 500 | 12.5×13.5 | 0.24 | 500 |
| 100 | 8×10.2 | 0.22 | 400 | 10×10.2 | 0.20 | 480 | 12.5×13.5 | 0.24 | 500 | 16×16.5 | 0.14 | 800 |
| 150 | | | | | | | 12.5×13.5 | 0.24 | 500 | 16×16.5 | 0.14 | 800 |
| 220 | 10×10.2 | 0.13 | 585 | 12.5×13.5 | 0.14 | 800 | | | | | | |
| 330 | 12.5×13.5 | 0.10 | 800 | | | | 16×16.5 | 0.14 | 800 | | | |
| 470 | | | | 16×16.5 | 0.065 | 1410 | | | | | | |
| 1000 | 16×16.5 | 0.060 | 1610 | | | | | | | | | |

→Use next higher voltage product.
Please refer to page 15 for the ripple current frequency coefficient.

Case size:φDxL(mm)
16×16.5:CE-KXT series

Rated ripple current
mArms(100kHz, 105℃)

Impedance(Ω)
max at 100kHz, 20℃

■ Model No.

KX series

16 CE 470 KX
- KX: Series code
- 470: Rated capacitance code
- CE: Type code
- 16: Rated voltage

KXT series

16 CE 3300 KXT
- KXT: Series code
- 3300: Rated capacitance code
- CE: Type code
- 16: Rated voltage

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