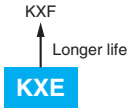
# KXE Series

- For LED light circuits and other long life applications
- Rated voltage range : 160 to 400 Vdc , Capacitance range : 1.0 to 33μF
- Endurance with ripple current : 10,000 to 12,000 hours at 105℃
- Non solvent resistant type
- RoHS2 Compliant



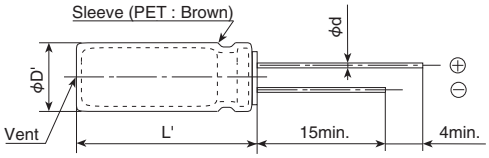


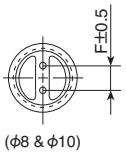

## ◆SPECIFICATIONS

| Items | Characteristics | | |
|---|---|---|---|
| Category Temperature Range | -40 to +105℃ | | |
| Rated Voltage Range | 160 to 400Vdc | | |
| Capacitance Tolerance | ±20% (M) | | (at 20℃, 120Hz) |
| Leakage Current | | After 1 minute | After 5 minutes |
| | CV≦1,000 | I=0.1CV+40 | I=0.03CV+15 |
| | CV>1,000 | I=0.04CV+100 | I=0.02CV+25 |
| | Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) | | (at 20℃) |
| Dissipation Factor (tan δ) | Rated voltage (Vdc) | 160 to 400V | |
| | tan δ (Max.) | 0.24 | (at 20℃, 120Hz) |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (Vdc) | 160 to 400V | |
| | Z(-25℃)/Z(+20℃) | 4 | |
| | Z(-40℃)/Z(+20℃) | 6 | (at 120Hz) |
| Endurance | The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 10,000 hours (12,000 hours for φ10×16L) at 105℃. | | |
| | Capacitance change | ≦±30% of the initial value | |
| | D.F. (tan δ) | ≦300% 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℃ after exposing them for 1,000 hours at 105℃ 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 | ≦±30% of the initial value | |
| | D.F. (tan δ) | ≦300% of the initial specified value | |
| | Leakage current | ≦500% of the initial specified value | |

## ◆DIMENSIONS [mm]

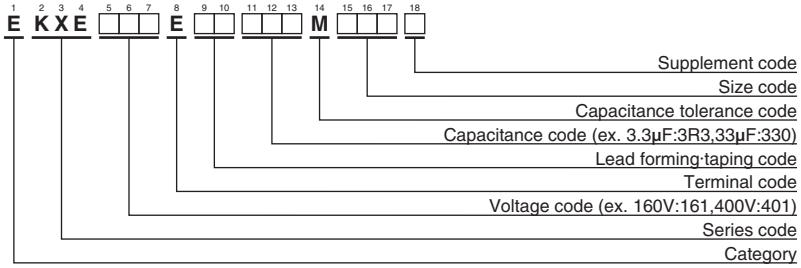
●Terminal Code : E




| φD | 8 | 10 |
|---|---|---|
| φd | 0.6 | 0.6 |
| F | 3.5 | 5.0 |
| φD' | φD+0.5max. | |
| L' | L+2.0max. | L+1.5max. |

## ◆PART NUMBERING SYSTEM




Please refer to "Product code guide (radial lead type)"

## ◆RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

| Capacitance(μF) \ Frequency(Hz) | 120 | 1k | 10k | 100k |
|---|---|---|---|---|
| 1.0 to 33 | 1.00 | 1.75 | 2.25 | 2.50 |

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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.

# KXE Series

## ◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current(mArms/105℃) | | Part No. |
|---|---|---|---|---|---|---|
| | | | | 120Hz | 100kHz | |
| 160 | 10 | 8×11.5 | 0.24 | 55 | 137 | EKXE161E□□100MHB5D |
| | 15 | 8×15 | 0.24 | 75 | 187 | EKXE161E□□150MH15D |
| | 15 | 10×12.5 | 0.24 | 80 | 200 | EKXE161E□□150MJC5S |
| | 22 | 10×12.5 | 0.24 | 95 | 237 | EKXE161E□□220MJC5S |
| | 27 | 10×16 | 0.24 | 105 | 262 | EKXE161E□□270MJ16S |
| | 33 | 10×16 | 0.24 | 130 | 325 | EKXE161E□□330MJ16S |
| 200 | 10 | 8×11.5 | 0.24 | 55 | 137 | EKXE201E□□100MHB5D |
| | 12 | 8×15 | 0.24 | 70 | 175 | EKXE201E□□120MH15D |
| | 12 | 10×12.5 | 0.24 | 70 | 175 | EKXE201E□□120MJC5S |
| | 15 | 10×16 | 0.24 | 90 | 225 | EKXE201E□□150MJ16S |
| | 18 | 10×12.5 | 0.24 | 85 | 212 | EKXE201E□□180MJC5S |
| | 27 | 10×16 | 0.24 | 120 | 300 | EKXE201E□□270MJ16S |
| 250 | 6.8 | 8×11.5 | 0.24 | 45 | 112 | EKXE251E□□6R8MHB5D |
| | 10 | 8×15 | 0.24 | 60 | 150 | EKXE251E□□100MH15D |
| 400 | 1.0 | 8×11.5 | 0.24 | 25 | 62 | EKXE401E□□1R0MHB5D |
| | 2.2 | 8×11.5 | 0.24 | 40 | 100 | EKXE401E□□2R2MHB5D |
| | 2.7 | 8×11.5 | 0.24 | 45 | 112 | EKXE401E□□2R7MHB5D |
| | 3.3 | 8×11.5 | 0.24 | 50 | 125 | EKXE401E□□3R3MHB5D |
| | 3.3 | 10×12.5 | 0.24 | 60 | 150 | EKXE401E□□3R3MJC5S |
| | 3.9 | 8×15 | 0.24 | 65 | 162 | EKXE401E□□3R9MH15D |
| | 4.7 | 10×16 | 0.24 | 90 | 225 | EKXE401E□□4R7MJ16S |
| | 5.6 | 10×16 | 0.24 | 100 | 250 | EKXE401E□□5R6MJ16S |
| | 6.8 | 10×12.5 | 0.24 | 85 | 212 | EKXE401E□□6R8MJC5S |
| | 6.8 | 10×16 | 0.24 | 115 | 287 | EKXE401E□□6R8MJ16S |

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

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