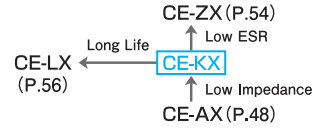


# CE-KX Series

Low Impedance

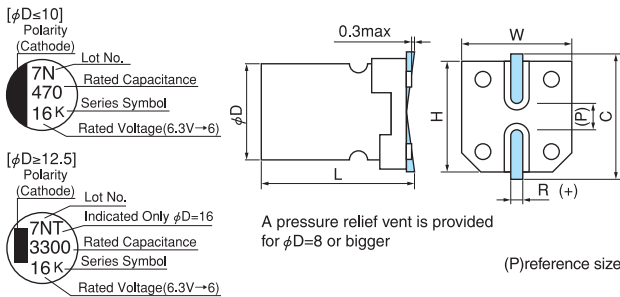


- 10 to 20% less impedance than CE-AX series at high frequencies.
- 105°C, 1,000 to 2,000hours • Solvent proof (within 2 minutes)

## 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 (°C)    | —                                                           | -55 to +105                            |                                                 |      |      |      |      |      |      |      |      |
| Capacitance tolerance (%)          | 120Hz/20°C                                                  | M : ±20                                |                                                 |      |      |      |      |      |      |      |      |
| Dissipation Factor (tan δ)         | tan δ (max)<br>120Hz/20°C                                   | 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 |
| Leakage current (LC)               | μA/after 2minutes (max)                                     | Exceeding 1,000μF, +0.02 every 1,000μF |                                                 |      |      |      |      |      |      |      |      |
| Impedance ratio at low temperature | Based the value at 120Hz, +20°C                             | -40°C Z/Z20°C                          | 3                                               | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
|                                    |                                                             | -55°C Z/Z20°C                          | 5                                               | 4    | 4    | 3    | 3    | 3    | 3    | 3    | 3    |
| Endurance                          | 105°C rated voltage applied (With the rated ripple current) | Test                                   | φ4 to φ6.3 : 1,000hours, φ8 to φ16 : 2,000hours |      |      |      |      |      |      |      |      |
|                                    |                                                             | ΔC/C                                   | Within ±25% of the initial value                |      |      |      |      |      |      |      |      |
|                                    |                                                             | tan δ                                  | Less than 200% of the specified value           |      |      |      |      |      |      |      |      |
|                                    |                                                             | LC                                     | Less than the specified value                   |      |      |      |      |      |      |      |      |

## Marking, Dimensions



(Unit : mm)

| D <sup>+0.5max</sup> | L <sup>±0.3</sup>    | W <sup>±0.2</sup> | H <sup>±0.2</sup> | C <sup>±0.2</sup> | R          | P   |
|----------------------|----------------------|-------------------|-------------------|-------------------|------------|-----|
| 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 <sup>±0.5</sup> | 12.8              | 12.8              | 13.5              | 1.0 to 1.4 | 4.6 |
| 16                   | 16.5 <sup>±0.5</sup> | 16.3              | 16.3              | 17.3              | 1.7 to 2.1 | 7.0 |

Aluminum Electrolytic Capacitors

CE-BE  
CE-BD  
CE-BS  
CE-BSS  
CE-CE  
CE-LD  
CE-FE  
CE-FSS  
CE-FS  
CE-FH  
CE-LH  
CE-AX  
**CE-KX**  
CE-GA  
CE-LS  
CE-ZX  
CE-ZC  
CE-LX  
CE-LL  
Voltage)  
CE-PC  
CE-PH  
CE-PS  
CE-PF  
CE-TH  
CE-JX  
CE-NP  
CE-FN  
ME-SWB  
-UZ · SZ  
AX · SAX  
ME-SWG  
ME-HC  
ME-LS  
ME-CZ  
ME-CA  
ME-CX  
ME-AX  
ME-WX  
ME-WA  
ME-WL  
ME-WG  
ME-FX  
ME-FH  
ME-PX  
PC · HPD  
E-FC · FD  
ME-SWN  
ME-HWN

■ Size, 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  |     |
| 22   |   |  |  |     |  |  |    |  |  |    |  | 4×6.0 | 1.45  | 90   |    | 5×6.0   | 0.70  | 170  |     |
| 27   |   |  |  |     |  |  |    |  |  |    |  | 4×6.0 | 1.45  | 90   |    | 5×6.0   | 0.70  | 170  |     |
| 33   |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 47   |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 56   |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 68   |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 100  |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 150  |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 220  |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 330  |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 470  |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 680  |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 1000 |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 1500 |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 2200 |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 3300 |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 4700 |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |
| 6800 |   |  |  |     |  |  |    |  |  |    |  |       |       |      |    | 6.3×6.0 | 0.39  | 250  |     |

Aluminum Electrolytic Capacitors  
Surface Mount Type

- CE-BE
- CE-BD
- CE-BS
- CE-BSS
- CE-FE
- CE-LD
- CE-FSS
- CE-FS
- CE-FH
- CE-LH
- CE-AX
- CE-KX**
- CE-GA
- CE-LS
- CE-ZX
- CE-ZC
- CE-LX
- CE-LL
- CE-LH(High Voltage)
- CE-PC
- CE-PH
- CE-PS
- CE-PF
- CE-TH
- CE-JX
- CE-NP
- CE-FN
- ME-SWB
- ME-UZ·SZ
- ME-UAX·SAX
- ME-SWG
- ME-HC
- ME-LS
- ME-CZ
- ME-CA
- ME-CX
- ME-AX
- ME-WX
- ME-WA
- ME-WL
- ME-WG
- ME-FX
- ME-FH
- ME-PX
- ME-HPC·HPD
- ME-FC·FD
- ME-SWN
- ME-HWN

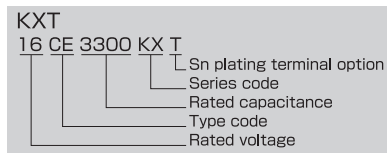
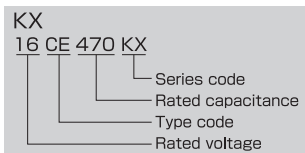
| μF   | V |  |  | 50 |  |  | 63 |  |  | 80 |  |         | 100  |    |  |
|------|---|--|--|----|--|--|----|--|--|----|--|---------|------|----|--|
|      |   |  |  |    |  |  |    |  |  |    |  |         |      |    |  |
| 2.2  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.70 | 42 |  |
| 3.3  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 4.7  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 10   |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 22   |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 33   |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 47   |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 68   |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 100  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 150  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 220  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 330  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 470  |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |
| 1000 |   |  |  |    |  |  |    |  |  |    |  | 6.3×6.0 | 2.40 | 45 |  |

→Please use the higher voltage model in the next.  
Please refer to page 15 for ripple current frequency coefficients.

Case size:φDxL(mm)  
16×16.5:CE-KXT

Rated ripple current  
mA rms(100kHz, 105°C)  
Impedance(Ω)  
max at 100kHz, 20°C

■ Part number



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[XT47UF50V90RV0082](#) [XT22UF50V90RV0083](#) [RST22UF50V026](#) [RST10UF16V013](#) [RST100UF25V004](#) [RST100UF35V009](#)  
[RST47UF25V035](#) [RST47UF50V038](#) [RST220UF25V019](#) [RSL220UF25V021](#) [XT10UF25V90RV0068](#) [FZ100UF50V90RV0066](#)  
[RST100UF16V003](#) [XT100UF10V90RV0060](#)