

ALUMINUM ELECTROLYTIC CAPACITORS

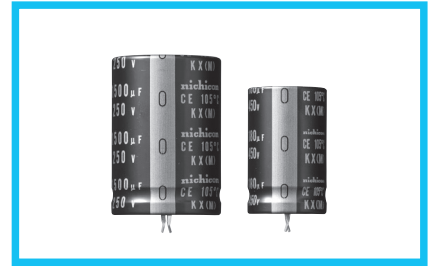


Snap-in Terminal Type, For Audio Equipment, of Switching Power Supplies



For Audio Use

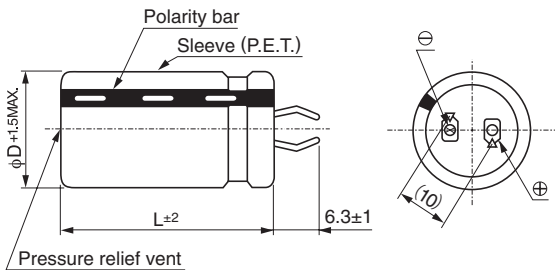
- In order to get high quality sound from 105°C standard series.
- Selected materials to achieve superior acoustic sound.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



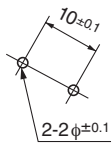
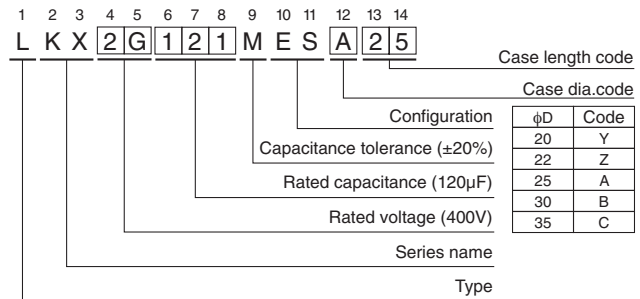
Specifications

| Item | Performance Characteristics | | | | | |
|-------------------------------|--|--|--------------------|--|-------|---|
| Category Temperature Range | - 40 to +105°C (200 • 250V), - 25 to + 105°C (400 • 450V) | | | | | |
| Rated Voltage Range | 200 to 450V | | | | | |
| Rated Capacitance Range | 56 to 2200µF | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | |
| Leakage Current | After 5 minutes' application of rated voltage at 20°C, leakage current is not more than $3\sqrt{CV}$ (µA), [C: Rated Capacitance(µF), V: Voltage (V)] | | | | | |
| Tangent of loss angle (tan δ) | See refer to next page (Measurement frequency : 120Hz at 20°C) | | | | | |
| Stability at Low Temperature | Rated voltage(V) | 200 to 250 400 to 450 | | | | |
| | Impedance ratio ZT/Z20(MAX.) | Z - 25°C/Z+20°C 4 8 Z - 40°C/Z+20°C 12 — | | | | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C. | Measurement frequency : 120Hz | | | | |
| | | <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table> | Capacitance change | Within ±20% of the initial capacitance value | tan δ | 200% or less than the initial specified value |
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| tan δ | 200% or less than the initial specified value | | | | | |
| Leakage current | Less than or equal to the initial specified value | | | | | |
| Shelf Life | After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed at right. | Measurement frequency : 120Hz | | | | |
| | | <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±15% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>150% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table> | Capacitance change | Within ±15% of the initial capacitance value | tan δ | 150% or less than the initial specified value |
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| tan δ | 150% or less than the initial specified value | | | | | |
| Leakage current | Less than or equal to the initial specified value | | | | | |
| Marking | Printed with gold color letter on black sleeve. | | | | | |

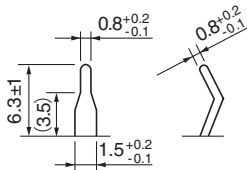
Drawing



Type numbering system (Example : 400 V 120µF , Dia.φ25)



(PC board hole dimensions)



(Terminal dimensions)

- Frequency coefficient of rated ripple current

| Frequency (Hz) | 50 | 60 | 120 | 300 | 1k | 10k | 50k or more |
|--------------------|------|------|------|------|------|------|-------------|
| Coeff. 200 to 250V | 0.81 | 0.85 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50 |
| 400 to 450V | 0.77 | 0.82 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43 |

- Dimension table in next page.

ALUMINUM ELECTROLYTIC CAPACITORS



■ Dimensions

| 200V (2D) | | | | |
|-----------|-----------------|---------------------|-------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Code |
| 220 | 20 × 25 | 0.90 | 0.15 | LKX2D221MESY25 |
| 270 | 20 × 30 | 0.99 | 0.15 | LKX2D271MESY30 |
| | 22 × 25 | 0.99 | 0.15 | LKX2D271MESZ25 |
| 330 | 20 × 35 | 1.20 | 0.15 | LKX2D331MESY35 |
| 390 | 20 × 40 | 1.31 | 0.15 | LKX2D391MESY40 |
| | 22 × 30 | 1.31 | 0.15 | LKX2D391MESZ30 |
| | 25 × 25 | 1.31 | 0.15 | LKX2D391MESA25 |
| 470 | 20 × 45 | 1.48 | 0.15 | LKX2D471MESY45 |
| | 22 × 35 | 1.48 | 0.15 | LKX2D471MESZ35 |
| | 25 × 30 | 1.48 | 0.15 | LKX2D471MESA30 |
| 560 | 20 × 50 | 1.60 | 0.15 | LKX2D561MESY50 |
| | 22 × 40 | 1.60 | 0.15 | LKX2D561MESZ40 |
| | 25 × 35 | 1.60 | 0.15 | LKX2D561MESA35 |
| 680 | 22 × 45 | 1.75 | 0.15 | LKX2D681MESZ45 |
| | 25 × 40 | 1.75 | 0.15 | LKX2D681MESA40 |
| | 30 × 30 | 1.75 | 0.15 | LKX2D681MESB30 |
| | 35 × 25 | 1.75 | 0.15 | LKX2D681MESC25 |
| 820 | 25 × 45 | 2.04 | 0.15 | LKX2D821MESA45 |
| | 30 × 35 | 2.04 | 0.15 | LKX2D821MESB35 |
| 1000 | 25 × 50 | 2.30 | 0.15 | LKX2D102MESA50 |
| | 30 × 40 | 2.30 | 0.15 | LKX2D102MESB40 |
| | 35 × 30 | 2.30 | 0.15 | LKX2D102MESC30 |
| 1200 | 30 × 45 | 2.65 | 0.15 | LKX2D122MESB45 |
| | 35 × 35 | 2.65 | 0.15 | LKX2D122MESC35 |
| 1500 | 30 × 50 | 2.80 | 0.15 | LKX2D152MESB50 |
| | 35 × 40 | 2.80 | 0.15 | LKX2D152MESC40 |
| 1800 | 35 × 45 | 3.08 | 0.15 | LKX2D182MESC45 |
| 2200 | 35 × 50 | 3.48 | 0.15 | LKX2D222MESC50 |

| 250V (2E) | | | | |
|-----------|-----------------|---------------------|-------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Code |
| 180 | 20 × 25 | 0.90 | 0.15 | LKX2E181MESY25 |
| 220 | 20 × 30 | 1.00 | 0.15 | LKX2E221MESY30 |
| | 22 × 25 | 1.00 | 0.15 | LKX2E221MESZ25 |
| 270 | 20 × 35 | 1.10 | 0.15 | LKX2E271MESY35 |
| | 22 × 30 | 1.10 | 0.15 | LKX2E271MESZ30 |
| 330 | 20 × 40 | 1.20 | 0.15 | LKX2E331MESY40 |
| | 22 × 35 | 1.20 | 0.15 | LKX2E331MESZ35 |
| | 25 × 25 | 1.20 | 0.15 | LKX2E331MESA25 |
| 390 | 20 × 45 | 1.30 | 0.15 | LKX2E391MESY45 |
| | 22 × 40 | 1.30 | 0.15 | LKX2E391MESZ40 |
| | 25 × 30 | 1.30 | 0.15 | LKX2E391MESA30 |
| 470 | 20 × 50 | 1.40 | 0.15 | LKX2E471MESY50 |
| | 22 × 45 | 1.40 | 0.15 | LKX2E471MESZ45 |
| | 25 × 35 | 1.40 | 0.15 | LKX2E471MESA35 |
| | 30 × 25 | 1.40 | 0.15 | LKX2E471MESB25 |
| 560 | 22 × 50 | 1.50 | 0.15 | LKX2E561MESZ50 |
| | 25 × 40 | 1.50 | 0.15 | LKX2E561MESA40 |
| | 30 × 30 | 1.50 | 0.15 | LKX2E561MESB30 |
| | 35 × 25 | 1.50 | 0.15 | LKX2E561MESC25 |
| 680 | 25 × 50 | 1.70 | 0.15 | LKX2E681MESA50 |
| | 30 × 35 | 1.70 | 0.15 | LKX2E681MESB35 |
| 820 | 30 × 40 | 2.00 | 0.15 | LKX2E821MESB40 |
| | 35 × 30 | 2.00 | 0.15 | LKX2E821MESC30 |
| 1000 | 30 × 45 | 2.20 | 0.15 | LKX2E102MESB45 |
| | 35 × 35 | 2.20 | 0.15 | LKX2E102MESC35 |
| 1200 | 35 × 40 | 2.30 | 0.15 | LKX2E122MESC40 |
| 1500 | 35 × 50 | 2.50 | 0.15 | LKX2E152MESC50 |

| 400V (2G) | | | | |
|-----------|-----------------|---------------------|-------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Code |
| 68 | 20 × 25 | 0.49 | 0.15 | LKX2G680MESY25 |
| 82 | 20 × 30 | 0.64 | 0.15 | LKX2G820MESY30 |
| | 22 × 25 | 0.64 | 0.15 | LKX2G820MESZ25 |
| 100 | 20 × 35 | 0.68 | 0.15 | LKX2G101MESY35 |
| 120 | 20 × 35 | 0.73 | 0.15 | LKX2G121MESY35 |
| | 22 × 30 | 0.73 | 0.15 | LKX2G121MESZ30 |
| | 25 × 25 | 0.73 | 0.15 | LKX2G121MESA25 |
| 150 | 20 × 45 | 0.85 | 0.15 | LKX2G151MESY45 |
| | 22 × 35 | 0.85 | 0.15 | LKX2G151MESZ35 |
| | 25 × 30 | 0.85 | 0.15 | LKX2G151MESA30 |
| 180 | 20 × 50 | 0.95 | 0.15 | LKX2G181MESY50 |
| | 22 × 40 | 0.95 | 0.15 | LKX2G181MESZ40 |
| | 25 × 35 | 0.95 | 0.15 | LKX2G181MESA35 |
| 220 | 22 × 50 | 1.10 | 0.15 | LKX2G221MESZ50 |
| | 25 × 40 | 1.10 | 0.15 | LKX2G221MESA40 |
| | 30 × 30 | 1.10 | 0.15 | LKX2G221MESB30 |
| | 35 × 25 | 1.10 | 0.15 | LKX2G221MESC25 |
| 270 | 25 × 45 | 1.22 | 0.15 | LKX2G271MESA45 |
| | 30 × 35 | 1.22 | 0.15 | LKX2G271MESB35 |
| 330 | 25 × 50 | 1.44 | 0.15 | LKX2G331MESA50 |
| | 30 × 40 | 1.44 | 0.15 | LKX2G331MESB40 |
| | 35 × 30 | 1.44 | 0.15 | LKX2G331MESC30 |
| 390 | 30 × 45 | 1.55 | 0.15 | LKX2G391MESB45 |
| | 35 × 35 | 1.55 | 0.15 | LKX2G391MESC35 |
| 470 | 30 × 50 | 1.68 | 0.15 | LKX2G471MESB50 |
| | 35 × 40 | 1.68 | 0.15 | LKX2G471MESC40 |
| 560 | 35 × 45 | 1.90 | 0.15 | LKX2G561MESC45 |
| 680 | 35 × 50 | 2.12 | 0.15 | LKX2G681MESC50 |

| 450V (2W) | | | | |
|-----------|-----------------|---------------------|-------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Code |
| 56 | 20 × 25 | 0.44 | 0.20 | LKX2W560MESY25 |
| 68 | 20 × 30 | 0.50 | 0.20 | LKX2W680MESY30 |
| 82 | 20 × 35 | 0.64 | 0.20 | LKX2W820MESY35 |
| | 22 × 30 | 0.64 | 0.20 | LKX2W820MESZ30 |
| 100 | 20 × 40 | 0.69 | 0.20 | LKX2W101MESY40 |
| | 22 × 30 | 0.69 | 0.20 | LKX2W101MESZ30 |
| | 25 × 25 | 0.69 | 0.20 | LKX2W101MESA25 |
| 120 | 20 × 45 | 0.72 | 0.20 | LKX2W121MESY45 |
| | 22 × 35 | 0.72 | 0.20 | LKX2W121MESZ35 |
| | 25 × 30 | 0.72 | 0.20 | LKX2W121MESA30 |
| 150 | 22 × 45 | 0.79 | 0.20 | LKX2W151MESZ45 |
| | 25 × 35 | 0.79 | 0.20 | LKX2W151MESA35 |
| | 30 × 25 | 0.79 | 0.20 | LKX2W151MESB25 |
| | 22 × 50 | 0.87 | 0.20 | LKX2W181MESZ50 |
| 180 | 25 × 40 | 0.87 | 0.20 | LKX2W181MESA40 |
| | 30 × 30 | 0.87 | 0.20 | LKX2W181MESB30 |
| | 35 × 25 | 0.87 | 0.20 | LKX2W181MESC25 |
| 220 | 25 × 45 | 1.05 | 0.20 | LKX2W221MESA45 |
| | 30 × 35 | 1.05 | 0.20 | LKX2W221MESB35 |
| 270 | 30 × 40 | 1.23 | 0.20 | LKX2W271MESB40 |
| | 35 × 30 | 1.23 | 0.20 | LKX2W271MESC30 |
| 330 | 30 × 45 | 1.38 | 0.20 | LKX2W331MESB45 |
| | 35 × 35 | 1.38 | 0.20 | LKX2W331MESC35 |
| 390 | 35 × 40 | 1.61 | 0.20 | LKX2W391MESC40 |
| 470 | 35 × 45 | 1.78 | 0.20 | LKX2W471MESC45 |
| 560 | 35 × 50 | 1.99 | 0.20 | LKX2W561MESC50 |

Rated ripple current (Arms) at 105°C 120Hz

CAT.8100J

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[LKX2D152MESB50](#) [LKX2D152MESB40](#) [LKX2D182MESB45](#) [LKX2D221MESB25](#) [LKX2D222MESB50](#)
[LKX2D271MESB30](#) [LKX2D271MESB25](#) [LKX2D331MESB35](#) [LKX2D391MESA25](#) [LKX2D391MESB40](#)
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[LKX2G680MESB25](#) [LKX2G681MESB50](#) [LKX2G820MESB30](#) [LKX2G820MESB25](#) [LKX2W101MESA25](#)
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