

K2A Miniature Aluminum Electrolytic Capacitors For Audio

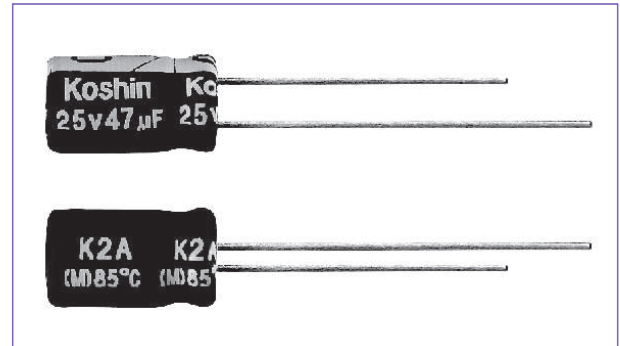
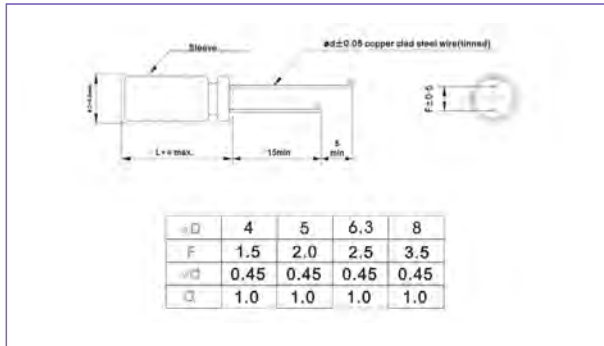
For Audio Ultra Miniaturized (height:7mm) Series K2A
A new foil and electrolyte makes powerful and clear sound.

Outline Drawing

Unit: mm

Photo

ROSH



Marking color: black print on yellow sleeve

Specifications

| No. | Item | Performance | | | | | | | | |
|-----|--|--|---|------|------|------|------|------|------|-------------|
| 1 | Temperature range (°C) | -40 to +85 | | | | | | | | |
| 2 | Leakage current (μA) | Less than 0.01CV or 3 whichever is larger (after two minutes) C: Rated Capacitance (μF); V: Rated voltage (V) 20°C | | | | | | | | |
| 3 | Capacitance tolerance (%) | ±20 (20°C, 120Hz) | | | | | | | | |
| 4 | Tangent of the loss angle (Tan δ) | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 20°C, 120Hz |
| | | Tan δ (max) | 0.35 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | |
| 5 | Low temperature characteristics | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 120Hz |
| | | Impedance ratio (max) | Z _(-25°C) /Z _(+20°C) | 6 | 4 | 3 | 2 | 2 | 2 | |
| | | | Z _(-40°C) /Z _(+20°C) | 16 | 10 | 8 | 6 | 4 | 4 | 4 |
| 6 | Endurance (85°C) (Applied ripple current) | Test time | 1000hours | | | | | | | |
| | | Leakage current | The initial specified value or less | | | | | | | |
| | | Percentage of capacitance change | Within ±20% of initial value | | | | | | | |
| | | Tangent of the loss angle | 200% or less of the initial specified value | | | | | | | |
| 7 | Shelf life (85°C) | Test time | 500hours | | | | | | | |
| | | Leakage current | The initial specified value or less | | | | | | | |
| | | Percentage of capacitance change | Within ±20% of initial value | | | | | | | |
| | | Tangent of the loss angle | 200% or less of the initial specified value | | | | | | | |
| 8 | Applicable standards | JIS-C-5102 and JIS-C-5141 | | | | | | | | |

Coefficient of Frequency for Ripple Current

| Frequency (Hz) | 50 | 120 | 300 | 1K | 10K ~ |
|----------------|------|------|------|------|-------|
| CAP ≤ 47 | 0.75 | 1.00 | 1.35 | 1.57 | 2.00 |
| 47 < CAP ≤ 330 | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |

Coefficient of Temperature for Ripple Current

| Temperature(°C) | 55 | 50 | 70 | 85 |
|-----------------|------|------|------|------|
| Coefficient | 1.65 | 1.50 | 1.30 | 1.00 |

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Dimension: Φ DXL(mm)

Ripple Current: mA/rms at 120Hz, 85°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

| V.DC Contents μ F | 4V | | 6.3V | | 10V | | 16V | | 25V | | 35V | | 50V | |
|-----------------------------|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|----|------------|-----|
| | Φ D×L | mA | Φ D×L | mA | Φ D×L | mA | Φ D×L | mA | Φ D×L | mA | Φ D×L | mA | Φ D×L | mA |
| 0.1 | | | | | | | | | | | | | 4X7 | 1.0 |
| 0.22 | | | | | | | | | | | | | 4X7 | 2.3 |
| 0.33 | | | | | | | | | | | | | 4X7 | 3.5 |
| 0.47 | | | | | | | | | | | | | 4X7 | 5.0 |
| 1 | | | | | | | | | | | | | 4X7 | 10 |
| 2.2 | | | | | | | | | | | | | 4X7 | 19 |
| 3.3 | | | | | | | | | | | | | 4X7 | 24 |
| 4.7 | | | | | | | | | | | 4X7 | 24 | 5X7 | 29 |
| 10 | | | | | | | 4X7 | 29 | 4X7 | 33 | 4X7 | 36 | 6.3X7 | 44 |
| 22 | | | 4X7 | 34 | 4X7 | 38 | 4X7 | 44 | 5X7 | 51 | 5X7 | 57 | 8X7 | 65 |
| 33 | 4X7 | 36 | 4X7 | 42 | 4X7 | 47 | 5X7 | 57 | 6.3X7 | 63 | 6.3X7 | 72 | | |
| 47 | 4X7 | 44 | 4X7 | 50 | 5X7 | 59 | 5X7 | 68 | 6.3X7 | 78 | 8X7 | 96 | | |
| 100 | 5X7 | 62 | 5X7 | 77 | 6.3X7 | 96 | 6.3X7 | 107 | 8X7 | 122 | | | | |
| 220 | 6.3X7 | 105 | 6.3X7 | 130 | 8X7 | 158 | | | | | | | | |
| 330 | 8X7 | 142 | 8X7 | 165 | | | | | | | | | | |