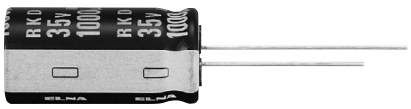
# 125°C Use, Miniature, Low Impedance

GREEN CAP | Low Z | 125°C 3000hours | Anti-cleaning solvent

- Smaller and low impedance than RK series.
- Guarantees 5000 hours at 125℃ (φ8 : 2000h,φ10 : 3000h)

Miniaturized, Low Z

RKD ⇦ RK



Marking color : White print on a black sleeve

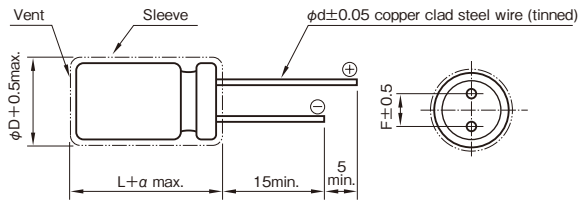
## Specifications

| Item | Performance |
|---|---|
| Category temperature range (℃) | −40 to +125 |
| Tolerance at rated capacitance (%) | ±20 (20℃,120Hz) |
| Leakage current (μA) | Less than 0.01CV or 4 whichever is larger (after 1 minute) C : Rated capacitance (μF), V : Rated voltage (V) (20℃) |
| Tangent of loss angle (tanδ) | Rated voltage (V): 10 / 16 / 25 / 35<br>tanδ (max.): 0.20 / 0.16 / 0.14 / 0.12<br>0.02 is added to every 1000μF increase over 1000μF. (20℃,120Hz) |
| Characteristics at high and low temperature | Rated voltage (V): 10 / 16 / 25 / 35<br>Impedance ratio (max.) Z−40℃/Z+20℃: 4 / 3 / 3 / 3<br>(120Hz) |
| Endurance (125℃) (Applied ripple current) | Test time: 5000 hours (φ8 : 2000 hours) (φ10 : 3000 hours)<br>Leakage current: The initial specified value or less<br>Percentage of capacitance change: Within −30% to +30% of initial value<br>Tangent of the loss angle: 300% or less of the initial specified value |
| Shelf life (125℃) | Test time :1000 hours; other items are the same as those for the endurance. Voltage application treatment |
| Applicable standards | JIS C5101-1, -18 1998 (IEC 60384-1 1992, -4 1985 ) |



## Outline Drawing

Unit : mm




| φD | 8 | 10 | 12.5 | 16 | 18 |
|---|---|---|---|---|---|
| F | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| α | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 |

## Coefficient of Frequency for Rated Ripple Current

| Rated capacitance (μF) \ Frequency (Hz) | 50・60 | 120 | 1k | 10k・100k |
|---|---|---|---|---|
| 47 to 180 | 0.40 | 0.75 | 0.90 | 1 |
| 220 to 390 | 0.50 | 0.85 | 0.95 | 1 |
| 470 to 1800 | 0.60 | 0.88 | 0.96 | 1 |
| 2200 to 10000 | 0.68 | 0.90 | 0.98 | 1 |

## Part numbering system (example : 10V1000μF)

| RKD | — | 10 | V | 102 | M | H5 | # |
|---|---|---|---|---|---|---|---|
| Series code | | Rated voltage symbol | | Rated capacitance symbol | Capacitance tolerance symbol | Casing symbol | Additional symbol |



NOTE
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Ask factory for technical specifications before purchase and/or use.

## Standard Ratings

| Rated voltage(V) / Item / Rated capacitance(μF) | 10 | | | 16 | | | 25 | | | 35 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Case | Impedance | Rated ripple current | Case | Impedance | Rated ripple current | Case | Impedance | Rated ripple current | Case | Impedance | Rated ripple current |
| | φD×L(mm) | Ω(max.) | mArms | φD×L(mm) | Ω(max.) | mArms | φD×L(mm) | Ω(max.) | mArms | φD×L(mm) | Ω(max.) | mArms |
| 100 | — | — | — | 8×12 | 0.153 | 500 | 8×12 | 0.153 | 500 | 8×12 | 0.153 | 500 |
| 220 | 8×12 | 0.153 | 500 | 8×12 | 0.153 | 500 | 8×12 | 0.153 | 500 | 10×12.5 | 0.098 | 725 |
| | | | | 10×12.5 | 0.098 | 725 | 10×12.5 | 0.098 | 725 | 10×16 | 0.075 | 951 |
| 330 | 8×12 | 0.153 | 500 | 8×12 | 0.153 | 500 | 10×12.5 | 0.098 | 725 | 10×16 | 0.075 | 951 |
| | 10×12.5 | 0.098 | 725 | 10×12.5 | 0.098 | 725 | 10×16 | 0.075 | 951 | 10×20 | 0.057 | 1130 |
| 470 | 10×12.5 | 0.098 | 725 | 10×16 | 0.075 | 951 | 10×16 | 0.075 | 951 | 10×20 | 0.057 | 1130 |
| | | | | | | | 10×20 | 0.057 | 1130 | 12.5×20 | 0.040 | 1550 |
| | | | | | | | — | — | — | 16×16 | 0.044 | 1600 |
| 1000 | 10×20 | 0.057 | 1130 | 10×20 | 0.057 | 1130 | 12.5×20 | 0.040 | 1550 | 12.5×25 | 0.032 | 1880 |
| | 12.5×15 | 0.059 | 1150 | 12.5×20 | 0.040 | 1550 | 12.5×25 | 0.032 | 1880 | 16×25 | 0.024 | 2550 |
| | — | — | — | 16×16 | 0.044 | 1600 | 16×16 | 0.044 | 1600 | 18×20 | 0.029 | 2320 |
| 1200 | — | — | — | — | — | — | 12.5×20 | 0.040 | 1550 | 12.5×30 | 0.029 | 2160 |
| | | | | | | | — | — | — | 16×20 | 0.032 | 2020 |
| 1500 | — | — | — | — | — | — | — | — | — | 12.5×35 | 0.023 | 2580 |
| | | | | | | | | | | 16×31.5 | 0.020 | 3040 |
| | | | | | | | | | | 18×25 | 0.022 | 2880 |
| 1800 | — | — | — | — | — | — | 12.5×25 | 0.032 | 1880 | 12.5×40 | 0.020 | 2920 |
| | | | | | | | 16×20 | 0.032 | 2020 | 16×25 | 0.024 | 2550 |
| 2200 | 12.5×25 | 0.032 | 1880 | 12.5×25 | 0.032 | 1880 | 12.5×30 | 0.029 | 2160 | 16×31.5 | 0.020 | 3040 |
| | 16×20 | 0.032 | 2020 | 16×25 | 0.024 | 2550 | 16×25 | 0.024 | 2550 | 16×35.5 | 0.019 | 3280 |
| | 18×16 | 0.041 | 1800 | 18×20 | 0.029 | 2320 | 18×20 | 0.029 | 2320 | 18×25 | 0.022 | 2880 |
| 2700 | — | — | — | — | — | — | 12.5×35 | 0.023 | 2580 | 16×35.5 | 0.019 | 3280 |
| | | | | | | | 16×25 | 0.024 | 2550 | 18×31.5 | 0.018 | 3410 |
| | | | | | | | 18×20 | 0.029 | 2320 | — | — | — |
| 3300 | 16×25 | 0.024 | 2550 | 16×31.5 | 0.020 | 3040 | 12.5×40 | 0.020 | 2920 | 16×40 | 0.017 | 3630 |
| | 18×20 | 0.029 | 2320 | 18×25 | 0.022 | 2880 | 16×31.5 | 0.020 | 3040 | 18×35.5 | 0.017 | 3710 |
| | — | — | — | — | — | — | 18×31.5 | 0.018 | 3410 | — | — | — |
| 3900 | — | — | — | — | — | — | 16×35.5 | 0.019 | 3280 | — | — | — |
| | | | | | | | 18×25 | 0.022 | 2880 | | | |
| 4700 | 16×31.5 | 0.020 | 3040 | 16×35.5 | 0.019 | 3280 | 16×35.5 | 0.019 | 3280 | 18×40 | 0.016 | 4000 |
| | 18×25 | 0.022 | 2880 | 18×31.5 | 0.018 | 3410 | 18×31.5 | 0.018 | 3410 | — | — | — |
| 5600 | — | — | — | — | — | — | 16×40 | 0.017 | 3630 | — | — | — |
| | | | | | | | 18×35.5 | 0.017 | 3710 | | | |
| 6800 | — | — | — | — | — | — | 18×40 | 0.016 | 4000 | — | — | — |

(Note) Impedance : 20℃, 100kHz ; Rated ripple current : 125℃, 100kHz



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