

125°C Use, Long Life Capacitors

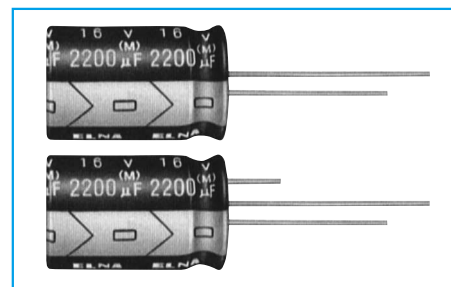
GREEN CAP Low Impedance 125°C 5000hours Anti-cleaning solvent

- Guarantees 5000 hours at 125°C. (φ8 : 2000 hours, φ10 : 3000 hours).
- Best-suited to smoothing circuits and control circuits for industrial equipment power supplies of which long life and high reliability are required.
- NC terminal added items are lineup for vibration resistance. (φ12.5 to φ18 : RPK series)

High temperature, long life

RK, RPK

RJH



Marking color : White print on a black sleeve

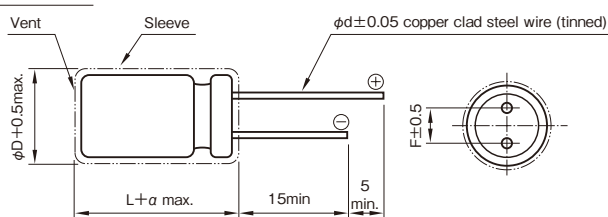
Specifications

| Item | Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|------|------|------|------|------|------------------------|--|-----------|----|----|----|----|-----------------|-------------------------------------|------|------|------|------|------|----------------------------------|------------------------------|--|--|--|--|--|---------------------------|---|--|--|--|--|--|
| Category temperature range (°C) | −40 to +125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tolerance at rated capacitance (%) | ±20 (20°C,120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage current (μA) | Less than 0.04CV (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tangent of loss angle (tanδ) | <table><tr><td>Rated voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td>tanδ (max.)</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td></tr></table> | | | | | | | Rated voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | tanδ (max.) | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | | | | | | | | | | | | | | |
| | Rated voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | tanδ (max.) | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.02 is added to every 1000μF increase over 1000μF. (20°C,120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Characteristics at high and low temperature | <table><tr><td>Impedance ratio (max.)</td><td>Z−40°C/Z+20°C</td><td colspan="5">3 or less</td></tr></table> (120Hz) | | | | | | | Impedance ratio (max.) | Z−40°C/Z+20°C | 3 or less | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impedance ratio (max.) | Z−40°C/Z+20°C | 3 or less | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance (125°C) (Applied ripple current) | <table><tr><td>Test time</td><td colspan="6">5000 hours (φ10 : 3000 hours, φ8 : 2000 hours)</td></tr><tr><td>Leakage current</td><td colspan="6">The initial specified value or less</td></tr><tr><td>Percentage of capacitance change</td><td colspan="6">Within ±30% of initial value</td></tr><tr><td>Tangent of the loss angle</td><td colspan="6">300% or less of the initial specified value</td></tr></table> | | | | | | | Test time | 5000 hours (φ10 : 3000 hours, φ8 : 2000 hours) | | | | | | Leakage current | The initial specified value or less | | | | | | Percentage of capacitance change | Within ±30% of initial value | | | | | | Tangent of the loss angle | 300% or less of the initial specified value | | | | | |
| | Test time | 5000 hours (φ10 : 3000 hours, φ8 : 2000 hours) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Leakage current | The initial specified value or less | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Percentage of capacitance change | Within ±30% of initial value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tangent of the loss angle | 300% or less of the initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf life (125°C) | <table><tr><td>Test time</td><td colspan="6">1000 hours</td></tr><tr><td>Leakage current</td><td colspan="6">The initial specified value or less</td></tr><tr><td>Percentage of capacitance change</td><td colspan="6">Within ±30% of initial value</td></tr><tr><td>Tangent of the loss angle</td><td colspan="6">300% or less of the initial specified value</td></tr></table> | | | | | | | Test time | 1000 hours | | | | | | Leakage current | The initial specified value or less | | | | | | Percentage of capacitance change | Within ±30% of initial value | | | | | | Tangent of the loss angle | 300% or less of the initial specified value | | | | | |
| | Test time | 1000 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Leakage current | The initial specified value or less | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Percentage of capacitance change | Within ±30% of initial value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tangent of the loss angle | 300% or less of the initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage application treatment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Applicable standards | JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Outline Drawing

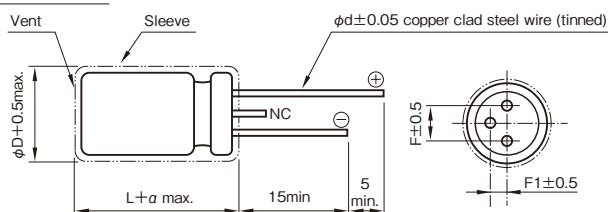
Unit : mm

RK series



| 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 |
| a | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 |

RPK series



| φD | 12.5 | 16 | 18 |
|----|------|------|------|
| F | 5.0 | 7.5 | 7.5 |
| F1 | 2.5 | 3.75 | 3.75 |
| φd | 0.6 | 0.8 | 0.8 |
| a | 2.0 | 2.0 | 2.0 |

Coefficient of Frequency for Rated Ripple Current

| Rated capacitance (μF) | Frequency (Hz) | 120 | 1k | 10k | 100k |
|------------------------|----------------|------|------|------|------|
| 47 to 100 | | 0.40 | 0.75 | 0.90 | 1 |
| 220 to 330 | | 0.50 | 0.85 | 0.95 | 1 |
| 470 to 1000 | | 0.60 | 0.88 | 0.96 | 1 |
| 2200 to 10000 | | 0.75 | 0.90 | 0.98 | 1 |

Part numbering system

RK series 16V2200μF

| RK | 16 | V | 222 | M | I6 | # |
|-------------|----------------------|--------------------------|------------------------------|---------------|----|---|
| Series code | Rated voltage symbol | Rated capacitance symbol | Capacitance tolerance symbol | Casing symbol | | |

RPK series 16V2200μF

| RPK | 16 | V | 222 | M | I6 | # |
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