# RVZ

## Chip Type, 105℃ Use, Low Impedance Capacitors

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105℃.

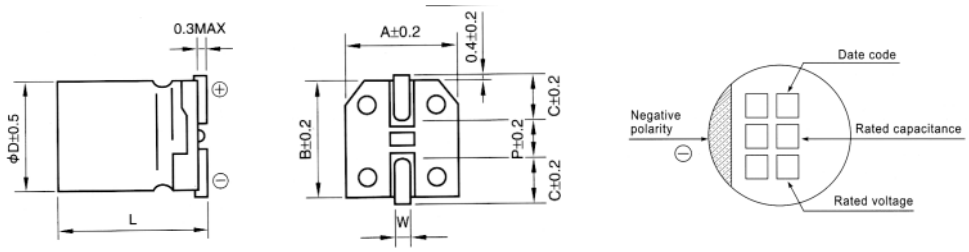
Marking color：Black print (ϕ4×5.3L–ϕ8×6.5L)
White print on a brown sleeve (ϕ8×10L・ϕ10×10L)

### ■ SPECIFICATIONS

| Item | Performance |
|---|---|
| Category temperature range (℃) | −55~+105℃ |
| Tolerance at rated capacitance (%) | ±20 (20℃, 120Hz) |
| Leakage current (μA) | Less than 0.01CV or 3 whichever is larger (after 2 minutes) C：Rated capacitance (μF)；V：Rated voltage (V) (20℃) |
| Tangent of loss angle (tan δ) | Rated voltage (V): 6.3 / 10 / 16 / 25 / 35<br>tan δ (max.): 0.28 / 0.24 / 0.20 / 0.16 / 0.14 (20℃, 120Hz) |
| Characteristics at high and low temperature | Rated voltage (V): 6.3 / 10 / 16 / 25 / 35<br>Impedance ratio (max.) Z25℃/Z+20℃: 4 / 3 / 2 / 2 / 2<br>Impedance ratio (max.) Z55℃/Z+20℃: 8 / 5 / 4 / 3 / 3 (120Hz) |
| Endurance (105℃) (Applied ripple current) | Test time: 2000 hours (8x6.5 or less : 1000 hours)<br>Leakage current: The initial specified value or less<br>Percentage of capacitance change: Within ±25% of initial value<br>Tangent of the loss angle: 200% or less of the initial specified value |
| Shelf life (105℃) | Test time：2000 hours; other items are the same as those for the endurance. Voltage application treatment：According to JIS C5101-1 |
| Coefficient of Frequency for Rated Ripple Current | Frequency (Hz) / Rated voltage (V): 120 / 1k / 10k / 100k<br>6.3 to 35: 0.5 / 0.75 / 0.9 / 1.0 |
| Applicable standards | JIS C5101-1, -18 1998 (IEC 60384-1 1992, -18 1993) |

### ■ OUTLINE DRAWING

Unit：mm




| ϕD | L | A | B | C | W | P |
|---|---|---|---|---|---|---|
| 4 | 5.3 ± 0.2 | 4.3 | 4.3 | 2.0 | 0.5 to 0.8 | 1.0 |
| 4 | 5.8 ± 0.3 | 4.3 | 4.3 | 2.0 | 0.5 to 0.8 | 1.0 |
| 5 | 5.3 ± 0.2 | 5.3 | 5.3 | 2.3 | 0.5 to 0.8 | 1.5 |
| 5 | 5.8 ± 0.3 | 5.3 | 5.3 | 2.3 | 0.5 to 0.8 | 1.5 |
| 6.3 | 5.3 ± 0.2 | 6.6 | 6.6 | 2.7 | 0.5 to 0.8 | 2.0 |
| 6.3 | 5.8 ± 0.3 | 6.6 | 6.6 | 2.7 | 0.5 to 0.8 | 2.0 |
| 6.3 | 7.7 ± 0.3 | 6.6 | 6.6 | 2.7 | 0.5 to 0.8 | 2.5 |
| 8 | 6.5 ± 0.3 | 8.4 | 8.4 | 3.4 | 0.5 to 0.8 | 2.3 |
| 8 | 10 ± 0.5 | 8.4 | 8.4 | 3.0 | 0.7 to 1.1 | 3.1 |
| 8 | 10.5 ± 0.5 | 8.4 | 8.4 | 3.0 | 0.7 to 1.1 | 3.1 |
| 10 | 10 ± 0.5 | 10.4 | 10.4 | 3.3 | 0.7 to 1.1 | 4.7 |
| 10 | 10.5 ± 0.5 | 10.4 | 10.4 | 3.3 | 0.7 to 1.1 | 4.7 |

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.

## ■ STANDARD RATINGS

| Rated voltage (V) | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item / Rated capacitance (μF) | Case ϕD (mm) | Impedance Ω | Rated ripple current mArms | Case ϕD (mm) | ESR Ω | Rated ripple current mArms | Case ϕD (mm) | ESR Ω | Rated ripple current mArms | Case ϕD (mm) | ESR Ω | Rated ripple current mArms | Case ϕD (mm) | ESR Ω | Rated ripple current mArms |
| **4.7** | — | — | — | — | — | — | — | — | — | 4×5.3 | 3.20 | 65 | 4×5.3 | 3.20 | 65 |
| **10** | — | — | — | 4×5.3 | 3.20 | 65 | 4×5.3 | 3.20 | 65 | 4×5.8 | 1.80 | 80 | 5×5.3 | 1.50 | 110 |
| | | | | | | | | | | 5×5.3 | 1.50 | 110 | 5×5.8 | 0.76 | 150 |
| **15** | — | — | — | — | — | — | 4×5.8 | 1.80 | 80 | 5×5.8 | 0.76 | 150 | 5×5.8 | 0.76 | 150 |
| **22** | 4×5.3 | 3.20 | 65 | 4×5.8 | 1.80 | 80 | 5×5.3 | 1.50 | 110 | 5×5.8 | 0.76 | 150 | 5×5.8 | 0.76 | 150 |
| | 4×5.8 | 1.80 | 80 | 5×5.3 | 1.50 | 110 | 5×5.8 | 0.76 | 150 | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 |
| **33** | 5×5.3 | 1.50 | 110 | 5×5.3 | 1.50 | 110 | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 |
| | 5×5.8 | 0.76 | 150 | 5×5.8 | 0.76 | 150 | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 |
| **47** | 5×5.3 | 1.50 | 110 | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 | 6.3×5.8 | 0.44 | 230 |
| | | | | | | | | | | | | | 6.3×7.7 | 0.50 | 255 |
| | 5×5.8 | 0.76 | 150 | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 8×6.5 | 0.60 | 200 |
| **68** | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 6.3×7.7 | 0.34 | 280 |
| | | | | | | | | | | | | | 8×6.5 | 0.34 | 280 |
| **100** | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 | 6.3×5.3 | 0.85 | 170 | 6.3×7.7 | 0.34 | 280 | 8×10 | 0.20 | 450 |
| | | | | | | | 6.3×5.8 | 0.44 | 230 | | | | | | |
| | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 8×6.5 | 0.60 | 200 | 8×6.5 | 0.34 | 280 | 8×10.5 | 0.17 | 450 |
| **150** | 6.3×5.8 | 0.44 | 230 | 6.3×5.8 | 0.44 | 230 | 6.3×7.7 | 0.34 | 280 | 8×10 | 0.20 | 450 | 8×10.5 | 0.17 | 450 |
| | | | | | | | 8×6.5 | 0.60 | 200 | 8×10.5 | 0.17 | 450 | 10×10 | 0.10 | 670 |
| **220** | 6.3×5.8 | 0.44 | 230 | 6.3×7.7 | 0.34 | 280 | 6.3×7.7 | 0.34 | 280 | 8×10.5 | 0.17 | 450 | 8×10.5 | 0.17 | 450 |
| | | | | 8×6.5 | 0.34 | 280 | | | | | | | | | |
| | 6.3×7.7 | 0.34 | 280 | 8×10 | 0.20 | 450 | 8×10 | 0.20 | 450 | 10×10 | 0.10 | 670 | 10×10 | 0.10 | 670 |
| **330** | 6.3×7.7 | 0.34 | 280 | 8×10.5 | 0.17 | 450 | 8×10.5 | 0.17 | 450 | 8×10.5 | 0.17 | 450 | 10×10.5 | 0.09 | 670 |
| | 8×6.5 | 0.34 | 200 | | | | | | | | | | | | |
| | 8×10 | 0.20 | 450 | 10×10 | 0.10 | 670 | 10×10 | 0.10 | 670 | 10×10 | 0.10 | 670 | | | |
| **470** | 8×10.5 | 0.17 | 450 | 8×10.5 | 0.17 | 450 | 8×10.5 | 0.17 | 450 | 10×10.5 | 0.09 | 670 | — | — | — |
| | 10×10 | 0.10 | 670 | 10×10 | 0.10 | 670 | 10×10 | 0.10 | 670 | | | | | | |
| **680** | 8×10.5 | 0.17 | 450 | 10×10.5 | 0.09 | 670 | 10×10.5 | 0.09 | 670 | — | — | — | — | — | — |
| **1000** | 8×10.5 | 0.17 | 450 | 10×10.5 | 0.09 | 670 | — | — | — | — | — | — | — | — | — |
| | 10×10 | 0.10 | 670 | | | | | | | | | | | | |
| **1500** | 10×10.5 | 0.09 | 670 | — | — | — | — | — | — | — | — | — | — | — | — |

(Note) Rated ripple current：105℃, 100kHz；Impedance：20℃, 100kHz

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.