

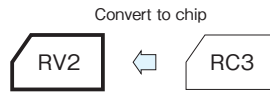
ChipType Standard Capacitors (height:5.5mm)

GREEN CAP

SMD

Anti-cleaning solvent

- Compatible with surface mounting for 5.5mm high capacitors.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85°C.

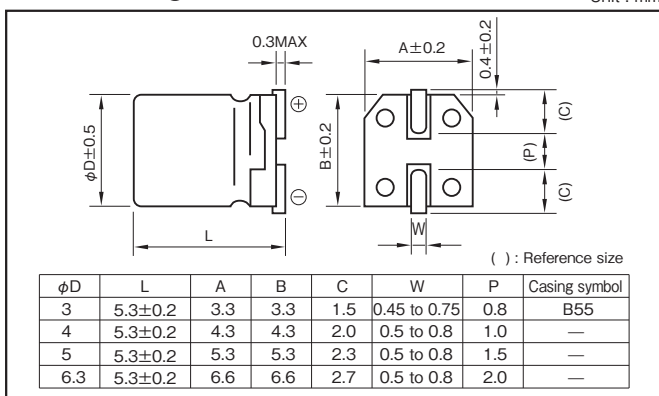


Marking color : Black print

Specifications

| Item | Performance | | | | | | | | | |
|--|---|---------------|---------------|------|------|------|------|------|----|----|
| Category temperature range (°C) | -40 to +85 | | | | | | | | | |
| Tolerance at rated capacitance (%) | ±20 (20°C,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°C) | | | | | | | | | |
| Tangent of loss angle (tanδ) | Rated voltage (V) | | | | | | | | | |
| | | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | | |
| tanδ (max.) | φ3 | 0.42 | 0.30 | 0.24 | 0.22 | 0.16 | 0.14 | 0.12 | | |
| | φ4 to φ6.3 | 0.42 | 0.28 | 0.24 | 0.20 | 0.14 | 0.12 | 0.10 | | |
| Characteristics at high and low temperature | Rated voltage(V) | | | | | | | | | |
| | Impedance ratio (max.) | φ3 | Z-25°C/Z+20°C | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | | | Z-40°C/Z+20°C | 7 | 4 | 3 | 2 | 2 | 2 | 2 |
| | φ4 to φ6.3 | Z-25°C/Z+20°C | 7 | 3 | 3 | 2 | 2 | 2 | 2 | |
| Z-40°C/Z+20°C | | 15 | 8 | 5 | 4 | 3 | 3 | 3 | | |
| Endurance (85°C) (Applied ripple current) | Test time | | | | | | | | | |
| | 2000 hours (φ3 : 1000 hours) | | | | | | | | | |
| | Leakage current | | | | | | | | | |
| | The initial specified value or less | | | | | | | | | |
| Percentage of capacitance change | | | | | | | | | | |
| Within ±20% of initial value (4WV : ±30%) | | | | | | | | | | |
| Tangent of the loss angle | | | | | | | | | | |
| 200% or less of the initial specified value (4WV : 300%) | | | | | | | | | | |
| Shelf life (85°C) | Test time : 1000hours ; other items are the same as those for the endurance. Voltage application treatment : According to JIS C5101-1 | | | | | | | | | |
| Applicable standards | JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993) | | | | | | | | | |

Outline Drawing



Coefficient of Frequency for Rated Ripple Current

| Rated voltage (V) | Frequency (Hz) | | | |
|-------------------|----------------|-----|------|------------|
| | 50 · 60 | 120 | 1k | 10k · 100k |
| 4 to 16 | 0.80 | 1 | 1.15 | 1.25 |
| 25 to 35 | 0.80 | 1 | 1.25 | 1.40 |
| 50 | 0.80 | 1 | 1.35 | 1.50 |

Part numbering system

• φ3 (example : 16V10µF)

RV2 — 16 V 100 M B55 U — □

Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Taping symbol

• φ4 to φ6.3 (example : 16V47µF)

RV2 — 16 V 470 M * U — □

Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Additional symbol Taping symbol

*Should add "S", when there is a black point in standard ratings.

- Soldering conditions are described on page 13. • Land pattern size are described on page 11.
- The taping specifications are described on page 14.

Standard Ratings

| Rated capacitance (µF) | 4 | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | | | | | |
|------------------------|--------------|---------------|---------|---------------------------|--------------|---------------|---------|---------------------------|--------------|---------------|---------|---------------------------|--------------|---------------|---------|---------------------------|------|----|
| | Case φD (mm) | Casing symbol | ESR (Ω) | Rated ripple current (mA) | Case φD (mm) | Casing symbol | ESR (Ω) | Rated ripple current (mA) | Case φD (mm) | Casing symbol | ESR (Ω) | Rated ripple current (mA) | Case φD (mm) | Casing symbol | ESR (Ω) | Rated ripple current (mA) | | |
| 0.1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 1990 | 1 |
| 0.22 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 905 | 2 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 754 | 5 |
| 0.33 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 603 | 3 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 503 | 6 |
| 0.47 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 424 | 4 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 353 | 7 |
| 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 199 | 6 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 166 | 10 |
| 2.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 106 | 8 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 70 | 9 |
| 3.3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 42 | 20 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 | — | 35 | 26 |
| 4.7 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 57 | 11 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 49 | 19 |
| 10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | B55 | 37 | 18 |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 33 | 26 |
| 22 | 3 | B55 | 32 | 14 | 4 | — | 21 | 31 | 5 | — | 18 | 39 | 5 | — | 15 | 44 | 6.3 | — |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.3 | — | 11 | 55 |
| 33 | 4 | — | 21 | 31 | 5 | — | 14 | 44 | 5 | — | 12 | 48 | 6.3 | — | 10 | 63 | 6.3 | — |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.3 | — | 7.0 | 67 |
| 47 | 4 | — | 15 | 37 | 5 | — | 10 | 52 | 6.3 | — | 8.5 | 67 | 6.3 | — | 7.1 | 75 | — | — |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 100 | 5 | — | 7.0 | 63 | 6.3 | — | 5.0 | 89 | 6.3 | — | 4.0 | 98 | 6.3 | — | 3.3 | 103 | — | — |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 220 | 6.3 | — | 3.2 | 110 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

(Note) Rated ripple current : 85°C, 120Hz ; ESR : 20°C, 120Hz

NOTE

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