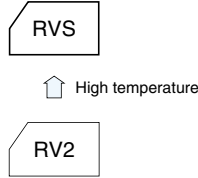


Chip Type 105°C Capacitors (height:5.5mm) Series RVS

- Compatible with surface mounting for 5.5mm high capacitors.
- Supplied with carrier taping.
- Guarantees 1000 hours at 105°C.



Marking color : Black print

Specifications

| Item | Performance | | | | | | | | |
|---|---|---|------|------|------|------|------|--------------|---------|
| Category temperature range (°C) | -55 to +105 | | | | | | | | |
| 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) | 6.3 | 10 | 16 | 25 | 35 | 50 | | |
| | tanδ (max.) | 0.30 | 0.26 | 0.22 | 0.16 | 0.13 | 0.12 | (20°C,120Hz) | |
| Characteristics at high and low temperature | Impedance ratio (max.) | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | | Z-25°C / Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | (120Hz) |
| Endurance (105°C) (Applied ripple current) | Test time | 1000 hours | | | | | | | |
| | 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 | | | | | | | |
| Shelf life (105°C) | Test time : 1000 hours; other items are the same as those for the endurance. Voltage application treatment : According to JIS C5101-1 | | | | | | | | |
| Applicable standards | JIS C5101-1, -18 1998 (IEC 60384-1 1992, -18 1993) | | | | | | | | |

Outline Drawing

Unit: mm



Coefficient of Frequency for Rated Ripple Current

| Rated voltage(V) | Frequency(Hz) | | | |
|------------------|---------------|-----|------|------------|
| | 50 · 60 | 120 | 1k | 10k · 100k |
| 6.3 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 (example: 16V47µF)

| | | | | | | |
|--------------------|-------------|----------------------|---|--------------------------|------------------------------|-------------------|
| Environmental item | RVS | 16 | V | 470 | M | U |
| | Series code | Rated voltage symbol | | Rated capacitance symbol | Capacitance tolerance symbol | Additional symbol |
| Former item | RVS | 16 | V | 470 | M | |
| | Series code | Rated voltage symbol | | Rated capacitance symbol | Capacitance tolerance symbol | Taping symbol |

- Soldering conditions and land size are described on page 14.
- The taping specifications are described on page 15.

Standard Ratings

| Rated capacitance(µF) | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | | 50 | | |
|-----------------------|---------|-----|----------------------|---------|-----|----------------------|---------|-----|----------------------|---------|-----|----------------------|---------|-----|----------------------|---------|------|----------------------|
| | Case | ESR | Rated ripple current | Case | ESR | Rated ripple current | Case | ESR | Rated ripple current | Case | ESR | Rated ripple current | Case | ESR | Rated ripple current | Case | ESR | Rated ripple current |
| Item | φ D(mm) | Ω | mArms | φ D(mm) | Ω | mArms | φ D(mm) | Ω | mArms | φ D(mm) | Ω | mArms | φ D(mm) | Ω | mArms | φ D(mm) | Ω | mArms |
| 0.1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 1190 | 2 |
| 0.22 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 905 | 3 |
| 0.33 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 603 | 4 |
| 0.47 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 424 | 5 |
| 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 199 | 7 |
| 2.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 91 | 10 |
| 3.3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 60 | 12 |
| 4.7 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 42 | 17 |
| 10 | — | — | — | 4 | 43 | 15 | 4 | 36 | 16 | 5 | 27 | 21 | 5 | 22 | 23 | 6.3 | 20 | 26 |
| 22 | 4 | 23 | 21 | 5 | 20 | 25 | 5 | 17 | 28 | 6.3 | 12 | 36 | 6.3 | 10 | 50 | — | — | — |
| 33 | 5 | 15 | 30 | 5 | 13 | 31 | 6.3 | 11 | 40 | 6.3 | 8.0 | 44 | — | — | — | — | — | — |
| 47 | 5 | 11 | 36 | 6.3 | 9.2 | 43 | 6.3 | 7.8 | 47 | — | — | — | — | — | — | — | — | — |
| 100 | 6.3 | 5.0 | 61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

(Note) Rated ripple current : 105°C, 120Hz; ESR : 20°C, 120Hz

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