



Surface mount type
series

Lower ESR than VL series
High ripple current
Load life of 2,000h at 105°C



● Specifications

| Items | Characteristics | |
|------------------------------|---|--------------------------------------|
| Temperature range | -55 to +105°C | |
| Rated voltage range | 2.5 to 16Vdc | |
| Capacitance range | 30 to 560μF | |
| Capacitance tolerance | ±20% [M] (at 20°C, 120Hz) | |
| Tangent of loss angle | Less than or equal to the value of Standard Ratings (at 20°C, 120Hz) | |
| Leakage current | Less than or equal to the value of Standard Ratings (at 20°C, after 2 minutes) | |
| ESR | Less than or equal to the value of Standard Ratings | |
| Characteristics of impedance | Z _{+105°C} /Z _{+20°C} ≤ 1.25, Z _{-55°C} /Z _{+20°C} ≤ 1.25 at 100kHz | |
| Endurance | 105°C, 2,000 hrs at rated voltage | |
| | Appearance | No significant damage |
| | Capacitance change | Within±20% of the initial value |
| | Tangent of loss angle (tanδ) | ≤150% of the initial specified value |
| | ESR(mΩ) | ≤150% of the initial specified value |
| | Leakage current | ≤The initial specified value |
| Damp Heat (Steady State) | 60°C, 90 to 95% RH, 1,000 hrs, No-applied Voltage | |
| | Appearance | No significant damage |
| | Capacitance change | Within±20% of the initial value |
| | Tangent of loss angle (tanδ) | ≤150% of the initial specified value |
| | ESR(mΩ) | ≤150% of the initial specified value |
| | Leakage current | ≤The initial specified value |
| Resistance to soldering heat | VPS (230°C, 75s) | |
| | Appearance | No significant damage |
| | Capacitance change | Within±10% of the initial value |
| | Tangent of loss angle (tanδ) | ≤130% of the initial specified value |
| | ESR(mΩ) | ≤130% of the initial specified value |
| | Leakage current | ≤The initial specified value |

*In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C

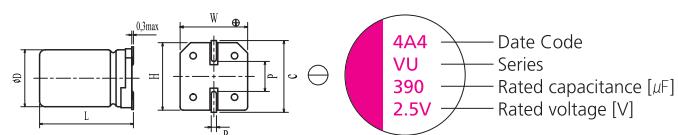
● Size List

(unit: mm)

| μF | RV (SV) (2.5) (2.9) | 2.5 (4.6) | 4 (6.3) | 6.3 (7.2) | 10 (11.5) | 16 (18.4) |
|-----|---------------------------|--------------|------------|--------------|--------------|--------------|
| 150 | | | 5×5.9 | | | |
| 180 | | | 5×5.9 | | 6.3×9.9 | |
| 220 | | | 6.3×5.9 | | | |
| 270 | 5×5.9 | | | | | |
| 330 | 5×5.9 | 6.3×5.9 | | | | |
| 390 | 6.3×5.9 | | | | | |
| 470 | | | | | | |
| 560 | 6.3×5.9 | | | | | |

RV: Rated Voltage [V] SV: Surge Voltage [V] (at room temperature)

● Marking and Dimensions

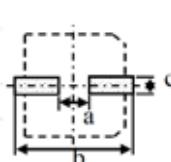


(unit: mm)

| Size | ØD±0.5 | L +0.1 -0.4 | W±0.2 | H±0.2 | C±0.2 | R | P±0.2 |
|---------|--------|-------------|-------|-------|-------|----------|-------|
| 5×5.9 | 5.0 | 5.9 | 5.3 | 5.3 | 6.0 | 0.6~0.8 | 1.4 |
| 6.3×5.9 | 6.3 | 5.9 | 6.6 | 6.6 | 7.3 | 0.6~0.8 | 2.1 |
| 6.3×9.9 | 6.3 | 9.9 | 6.6 | 6.6 | 7.3 | 0.6~0.8 | 2.1 |
| 10×12.6 | 10.0 | 12.6 | 10.3 | 10.3 | 11.0 | 0.8~0.11 | 4.6 |

● Recommended Land Pattern Dimension of PCB

(unit: mm)



| Size | a | b | c |
|---------|-----|------|-----|
| 5×5.9 | 1.4 | 7.4 | 1.6 |
| 6.3×5.9 | 2.1 | 9.1 | 1.6 |
| 6.3×9.9 | 2.1 | 9.1 | 1.6 |
| 10×12.6 | 4.3 | 13.1 | 1.9 |

● Standard Ratings

| Rated Voltage [Vdc] | Rated Capacitance [μ F] | Size ØD x L [mm] | ESR (20°C, 100kHz) [mΩ] [max.] | Rated Ripple Current (105°C, 100kHz) [mAmps] | Tangent of Loss Angel [max] | Leakage Current [μ A, max] | Part Number |
|---------------------|------------------------------|------------------|--------------------------------|--|-----------------------------|---------------------------------|-------------|
| 2.5 | 270 | 5.0 x 5.9 | 10 | 3860 | 0.12 | 500 | 2VU270MB6 |
| | 330 | 5.0 x 5.9 | 10 | 3860 | 0.12 | 500 | 2VU330MB6 |
| 4 | 390 | 5.0 x 5.9 | 10 | 3860 | 0.12 | 700 | 2VU390MB6 |
| | 390 | 6.3 x 5.9 | 10 | 3900 | 0.12 | 500 | 2VU390MC6 |
| 6.3 | 560 | 6.3 x 5.9 | 10 | 3900 | 0.12 | 500 | 2VU560MC6 |
| | 150 | 5.0 x 5.9 | 12 | 3520 | 0.12 | 500 | 6VU150MB6 |
| 16 | 180 | 5.0 x 5.9 | 15 | 3150 | 0.12 | 500 | 6VU180MB6 |
| | 220 | 6.3 x 5.9 | 10 | 3900 | 0.12 | 500 | 6VU220MC6 |
| 16 | 180 | 6.3 x 9.9 | 11 | 4460 | 0.12 | 576 | 16VU180MC10 |
| | 470 | 10 x 12.6 | 10 | 6100 | 0.12 | 1504 | 16VU470ME12 |

Conductive Polymer Hybrid
Aluminum Electrolytic Capacitors
Radial Lead Type

Conductive Polymer Hybrid
Aluminum Electrolytic Capacitors
SMD Lead Type

Conductive Polymer Aluminum
Electrolytic Capacitors_Radial Lead Type

Conductive Polymer Aluminum
Electrolytic Capacitors_SMD Lead Type