

CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

UA/UB/UC series



FPCAP NEW

Resin-molded Chip, Low-Profile (7.3 × 4.3 × 1.9)

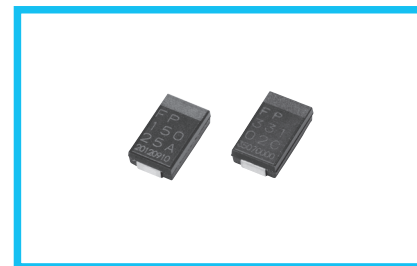
- By using Functional Polymer cathode, Frequency & Temp. characteristics are greatly improved.
- Low ESR at a high frequency range. ● High ripple current capability.

<Applications>

Switching Power Supply and DC/DC Converter.
Back up Power Supplies of CPU (VRM etc.)
Miniature high Power Supply.

<Environmental Correspondence>

Compliant to the RoHS directive (2011/65/EU).
The Lead-free of terminal plating.



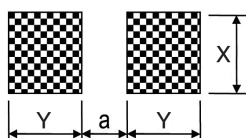
■ Specifications

| Item | Performance Characteristics | |
|-------------------------------|--|---|
| Category Temperature Range | -55 to +105°C | |
| Rated Voltage Range | 2.0 to 35V | |
| Rated Capacitance Range | 12 to 330μF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| Tangent of loss angle (tan δ) | Less than or equal to the specified value at 120Hz, 20°C | |
| ESR (※1) | Less than or equal to the specified value at 100kHz, 20°C | |
| Leakage Current (※2) | Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C | |
| Endurance | Test condition | 105°C, rated voltage 1000Hrs. |
| | Capacitance change | Within ±20% of initial value before test |
| | tan δ | 150% or less than the initial specified value |
| | Leakage current (※2) | Less than or equal to the initial specified value |
| Damp Heat (Steady State) | Test condition | 60°C, 90 to 95%RH, No Bias, 500Hrs. |
| | Capacitance change | Within +50% to -20% of initial value before test |
| | tan δ | 200% or less than the initial specified value |
| | Leakage current (※2) | 300% or less than the initial specified value |
| Failure Rate | 0.5% / 1000Hrs. Max. (60%CL) | |

※1 ESR should be measured at both of the terminal ends closest to the capacitor body.

※2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

■ Recommended land Size

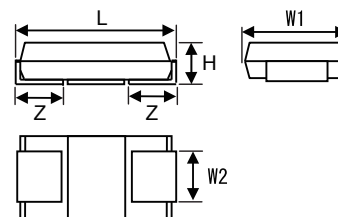


| L × W × H | X | Y | a |
|-----------------|-----|------|-----|
| 7.3 × 4.3 × 1.9 | 2.9 | 2.05 | 4.1 |

■ Size Code (ESR)

[Upper value : Size Code, Lower value : ESR (mΩ)]

| Cap [μF] | R.V.(V) | | | S.V.(V) | | | Series | | |
|----------|---------|-------|--------|---------|--------|----|--------|----|----|
| | 2.0 | 4.0 | 6.3 | 16 | 25 | 35 | UA | UB | UC |
| 12 | | | | | | | | | |
| 15 | | | | | | | | | |
| 27 | | | | | | | | | |
| 100 | | | | L (25) | L (15) | | | | |
| 150 | | | | L (18) | L (15) | | | | |
| 220 | L (15) | L (9) | | | | | | | |
| 270 | | L (9) | L* (6) | | | | | | |
| 330 | | L (9) | L* (6) | | | | | | |



| Size Code | L±0.2 | W1±0.2 | W2±0.1 | H±0.1 | Z±0.2 |
|-----------|-------|--------|--------|-------|-------|
| L | 7.3 | 4.3 | 2.4 | 1.9 | 1.3 |

※ Mass Production Plan : Dec. 2013

Design, Specifications are subject to change without notice.

ALUMINUM ELECTROLYTIC CAPACITORS

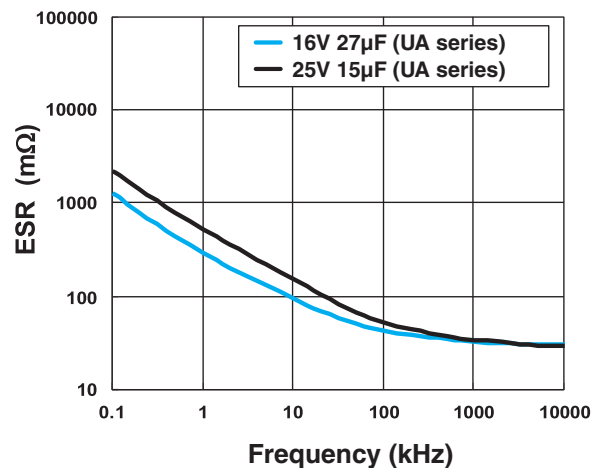
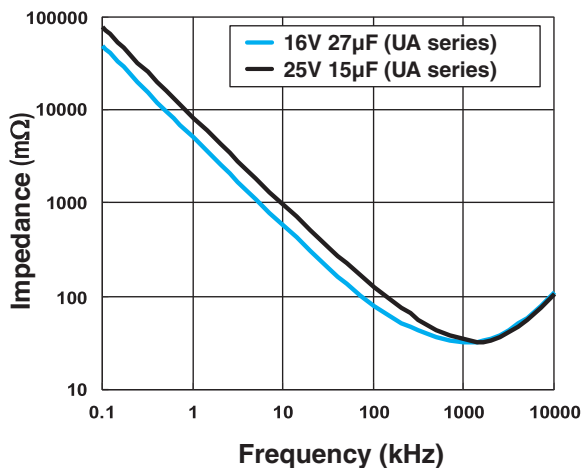
UA / UB / UC series

Standard Ratings

| Rated Voltage (V) (code) | Surge Voltage (V) | Rated Capacitance (μF) | Case Size L×W×H (mm) | tan δ | Leakage Current (μA, 2min.) | ESR (mΩ, 100kHz) | Rated Ripple Current (mA rms) | NICHICON | FPCAP | MSL (J-STD-020D) |
|--------------------------|-------------------|------------------------|----------------------|-------|-----------------------------|------------------|-------------------------------|-------------|------------------|------------------|
| 2.0 (OD) | 2.3 | 220 | 7.3×4.3×1.9 | 0.12 | 700 | 15 | 2800 | RUA0D221MLG | FP-2R0CM221M-UAR | Level 3 |
| | | 220 | 7.3×4.3×1.9 | 0.12 | 700 | 9 | 3300 | RUB0D221MLG | FP-2R0CM221M-UBR | Level 3 |
| | | 270 | 7.3×4.3×1.9 | 0.12 | 700 | 9 | 3300 | RUB0D271MLG | FP-2R0CM271M-UBR | Level 3 |
| | | 270* | 7.3×4.3×1.9 | 0.12 | 700 | 6 | 3500 | RUC0D271MLG | FP-2R0CM271M-UCR | Level 3 |
| | | 330 | 7.3×4.3×1.9 | 0.12 | 700 | 9 | 3300 | RUB0D331MLG | FP-2R0CM331M-UBR | Level 3 |
| | | 330* | 7.3×4.3×1.9 | 0.12 | 700 | 6 | 3500 | RUC0D331MLG | FP-2R0CM331M-UCR | Level 3 |
| 4.0 (OG) | 4.6 | 150 | 7.3×4.3×1.9 | 0.12 | 700 | 18 | 2600 | RUA0G151MLG | FP-4R0CM151M-UAR | Level 3 |
| 6.3 (OJ) | 7.2 | 100 | 7.3×4.3×1.9 | 0.12 | 700 | 25 | 2300 | RUA0J101MLG | FP-6R3CM101M-UAR | Level 3 |
| | | 100 | 7.3×4.3×1.9 | 0.12 | 700 | 15 | 2800 | RUB0J101MLG | FP-6R3CM101M-UBR | Level 3 |
| | | 150 | 7.3×4.3×1.9 | 0.12 | 1000 | 15 | 2800 | RUB0J151MLG | FP-6R3CM151M-UBR | Level 3 |
| 16 (1C) | 18.4 | 27 | 7.3×4.3×1.9 | 0.12 | 216 | 65 | 1100 | RUA1C270MLG | FP-016CM270M-UAR | Level 3 |
| | | 27 | 7.3×4.3×1.9 | 0.12 | 216 | 40 | 1400 | RUB1C270MLG | FP-016CM270M-UBR | Level 3 |
| 25 (1E) | 28.7 | 15 | 7.3×4.3×1.9 | 0.12 | 188 | 70 | 1000 | RUA1E150MLG | FP-025CM150M-UAR | Level 3 |
| | | 15 | 7.3×4.3×1.9 | 0.12 | 188 | 40 | 1400 | RUB1E150MLG | FP-025CM150M-UBR | Level 3 |
| 35 (1V) | 40.2 | 12 | 7.3×4.3×1.9 | 0.12 | 210 | 70 | 1000 | RUA1V120MLG | FP-035CM120M-UAR | Level 3 |

※ Mass Production Plan : Dec. 2013.

Frequency Characteristics (The frequency characteristics are typical and not a guaranteed value.)



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