

ALUMINUM ELECTROLYTIC CAPACITORS

UPA Miniature Sized, Low Impedance, High Reliability For Switching Power Supplies



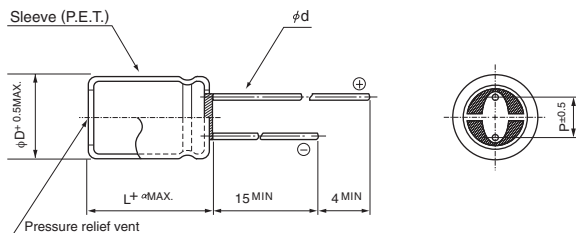
- Lower impedance than UPW.
- Smaller case size and high ripple current.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



Specifications

| Item | Performance Characteristics | | | | | | |
|---|---|--|------|------|------|------|------------|
| Category Temperature Range | -55 to +105°C | | | | | | |
| Rated Voltage Range | 6.3 to 35V | | | | | | |
| Rated Capacitance Range | 180 to 10000µF | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | | |
| Leakage Current | After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (µA), whichever is greater. | | | | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 120Hz 20°C |
| | tan δ (MAX.) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | |
| For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. | | | | | | | |
| Stability at Low Temperature | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 120Hz |
| | Impedance ratio (MAX.) Z-55°C / Z+20°C | 3 | 3 | 3 | 3 | 3 | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 5000 hours (3000 hours for φD=8, 4000 hours for φD=10) at 105°C, the peak voltage shall not exceed the rated voltage. | | | | | | |
| | Capacitance change | Within ±20% of the initial capacitance value (6.3V, 10V : ±30%) | | | | | |
| | tan δ | 200% or less than the initial specified value (6.3V, 10V : 300%) | | | | | |
| Shelf Life | After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above. | | | | | | |
| | Leakage current | Less than or equal to the initial specified value | | | | | |
| Marking | Printed with white color letter on dark brown sleeve. | | | | | | |

Radial Lead Type

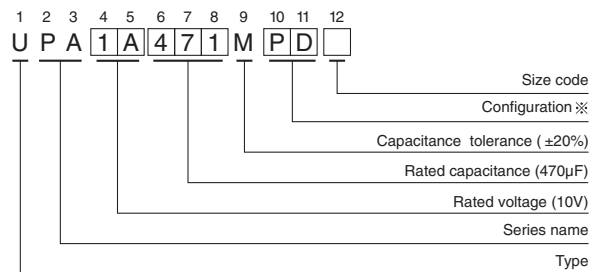


| | | |
|---|----------|-----|
| α | (L < 20) | 1.5 |
| | (L ≥ 20) | 2.0 |

| | (mm) | | | | |
|----|------|-----|------|-----|-----|
| φD | 8 | 10 | 12.5 | 16 | 18 |
| P | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.6 | 0.6 | *0.6 | 0.8 | 0.8 |

※ : In case L > 25 for the φ12.5 dia. unit, lead dia. φd = 0.8mm.

Type numbering system (Example : 10V 470µF)



※ Configuration

| φD | Pb-free leadwire Pb-free PET sleeve |
|------------|--|
| 8 · 10 | PD |
| 12.5 to 18 | HD |

Frequency coefficient of rated ripple current

| Cap. (µF) | Frequency | | | | |
|---------------|-----------|-------|-------|------|---------------|
| | 50Hz | 120Hz | 300Hz | 1kHz | 10kHz or more |
| 180 to 330 | 0.55 | 0.65 | 0.75 | 0.85 | 1.00 |
| 390 to 1000 | 0.70 | 0.75 | 0.80 | 0.90 | 1.00 |
| 1200 to 10000 | 0.80 | 0.85 | 0.90 | 0.95 | 1.00 |

• Please refer to page 20 about the end seal configuration.

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

• Dimension table in next page.

UPA

■ Dimensions

| Cap.(μF) Code | | V (Code) Item | | 6.3 (0J) | | | 10 (1A) | | | 16 (1C) | | | | | |
|------------------|-----|------------------|--|-----------------------------|--------------------|-------------------|--|-----------------------------|--------------------|-------------------|--|-----------------------------|--------------------|-------------------|--|
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) 105°C / 100kHz | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) 105°C / 100kHz | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) 105°C / 100kHz |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | | | 20°C / 100kHz | -10°C / 100kHz | | | 20°C / 100kHz | -10°C / 100kHz | |
| 330 | 331 | | | | | | | | | | | | | | |
| 390 | 391 | | | | | | | | | | | 8 × 11.5 | 0.090 | 0.180 | 630 |
| 470 | 471 | | | | | | | | | | | 8 × 11.5 | 0.090 | 0.180 | 630 |
| 560 | 561 | | | | | | | | | | | 8 × 11.5 | 0.090 | 0.180 | 630 |
| 680 | 681 | | | | | | | | | | | 8 × 11.5 | 0.090 | 0.180 | 630 |
| 820 | 821 | | | | | | | | | | | 8 × 15 | 0.062 | 0.124 | 860 |
| | | | | | | | | | | | | ▲10 × 12.5 | 0.063 | 0.126 | 900 |
| | | | | | | | | | | | | 8 × 20 | 0.044 | 0.088 | 1220 |
| | | | | | | | | | | | | ▲10 × 12.5 | 0.063 | 0.126 | 900 |
| | | | | | | | | | | | | ●10 × 16 | 0.049 | 0.098 | 1240 |
| | | | | | | | | | | | | 8 × 20 | 0.044 | 0.088 | 1220 |
| | | | | | | | | | | | | ▲10 × 16 | 0.049 | 0.098 | 1240 |
| | | | | | | | | | | | | 10 × 20 | 0.035 | 0.070 | 1490 |
| | | | | | | | | | | | | 8 × 20 | 0.044 | 0.088 | 1220 |
| | | | | | | | | | | | | ▲10 × 16 | 0.049 | 0.098 | 1240 |
| | | | | | | | | | | | | 10 × 20 | 0.035 | 0.070 | 1490 |
| | | | | | | | | | | | | 8 × 20 | 0.044 | 0.088 | 1220 |
| | | | | | | | | | | | | ▲10 × 16 | 0.049 | 0.098 | 1240 |
| | | | | | | | | | | | | 10 × 20 | 0.035 | 0.070 | 1490 |
| | | | | | | | | | | | | ▲10 × 25 | 0.033 | 0.066 | 1680 |
| | | | | | | | | | | | | 10 × 25 | 0.033 | 0.066 | 1680 |
| | | | | | | | | | | | | ●10 × 25 | 0.033 | 0.066 | 1680 |
| | | | | | | | | | | | | ●12.5 × 20 | 0.029 | 0.058 | 1890 |
| | | | | | | | | | | | | 12.5 × 20 | 0.029 | 0.058 | 1890 |
| | | | | | | | | | | | | 12.5 × 20 | 0.029 | 0.058 | 1890 |
| | | | | | | | | | | | | 12.5 × 25 | 0.022 | 0.044 | 2280 |
| | | | | | | | | | | | | 12.5 × 25 | 0.022 | 0.044 | 2280 |
| | | | | | | | | | | | | 12.5 × 25 | 0.022 | 0.044 | 2280 |
| | | | | | | | | | | | | 12.5 × 31.5 | 0.018 | 0.036 | 2720 |
| | | | | | | | | | | | | ▲16 × 20 | 0.026 | 0.052 | 2330 |
| | | | | | | | | | | | | 12.5 × 35.5 | 0.016 | 0.032 | 2940 |
| | | | | | | | | | | | | 12.5 × 31.5 | 0.018 | 0.036 | 2720 |
| | | | | | | | | | | | | ▲16 × 20 | 0.026 | 0.052 | 2330 |
| | | | | | | | | | | | | 16 × 25 | 0.019 | 0.038 | 2760 |
| | | | | | | | | | | | | ▲18 × 20 | 0.025 | 0.050 | 2640 |
| | | | | | | | | | | | | 12.5 × 35.5 | 0.016 | 0.032 | 2940 |
| | | | | | | | | | | | | 16 × 31.5 | 0.017 | 0.034 | 2810 |
| | | | | | | | | | | | | ▲18 × 25 | 0.018 | 0.036 | 2850 |
| | | | | | | | | | | | | 16 × 31.5 | 0.017 | 0.034 | 2810 |
| | | | | | | | | | | | | ▲18 × 25 | 0.018 | 0.036 | 2850 |
| | | | | | | | | | | | | 16 × 31.5 | 0.017 | 0.034 | 2810 |
| | | | | | | | | | | | | ▲18 × 25 | 0.018 | 0.036 | 2850 |
| | | | | | | | | | | | | 16 × 31.5 | 0.017 | 0.034 | 2810 |
| | | | | | | | | | | | | ▲18 × 25 | 0.018 | 0.036 | 2850 |

| Cap.(μF) Code | | V (Code) Item | | 25 (1E) | | | 35 (1V) | | | | | | | | |
|------------------|-----|------------------|--|-----------------------------|--------------------|-------------------|--|-----------------------------|--------------------|-------------------|--|--|--|--|--|
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) 105°C / 100kHz | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) 105°C / 100kHz | | | | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | | | 20°C / 100kHz | -10°C / 100kHz | | | | | |
| 180 | 181 | | | | | | | | | | | | | | |
| 270 | 271 | | | | | | | | | | | | | | |
| 330 | 331 | | | | | | | | | | | | | | |
| 390 | 391 | | | | | | | | | | | | | | |
| 470 | 471 | | | | | | | | | | | | | | |
| 560 | 561 | | | | | | | | | | | | | | |
| 680 | 681 | | | | | | | | | | | | | | |
| 820 | 821 | | | | | | | | | | | | | | |
| 1000 | 102 | | | | | | | | | | | | | | |
| 1200 | 122 | | | | | | | | | | | | | | |
| 1500 | 152 | | | | | | | | | | | | | | |
| 1800 | 182 | | | | | | | | | | | | | | |
| 2200 | 222 | | | | | | | | | | | | | | |
| 2700 | 272 | | | | | | | | | | | | | | |
| 3300 | 332 | | | | | | | | | | | | | | |
| 4700 | 472 | | | | | | | | | | | | | | |

- ▲ : In this case, [6] will be put at 12th digit of type numbering system.
- : In this case, [3] will be put at 12th digit of type numbering system.



Стандарт Электрон Связь

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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331