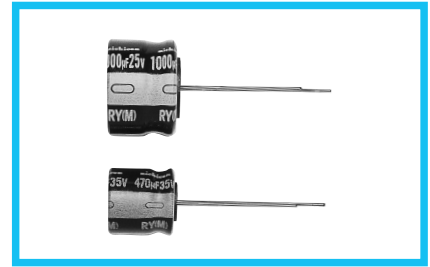
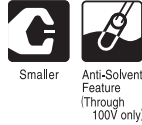
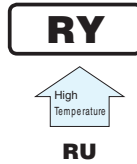


ALUMINUM ELECTROLYTIC CAPACITORS

RY 12.5mmL Wide Temperature Range
series



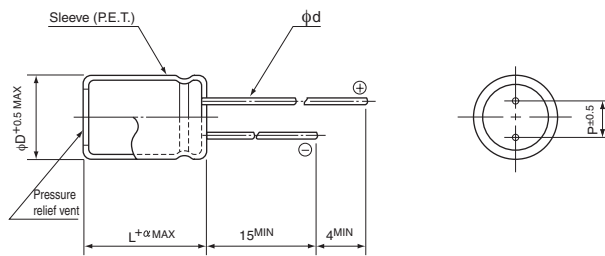
- 12.5mmL height.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

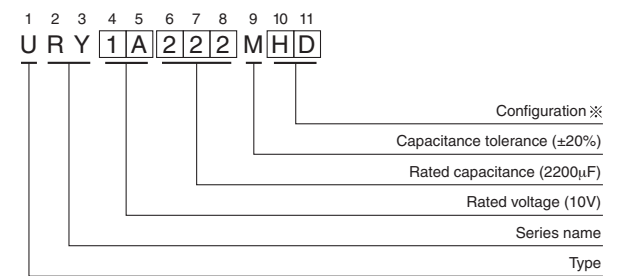
| Item | Performance Characteristics | |
|--|---|---|
| Category Temperature Range | -55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V) | |
| Rated Voltage Range | 6.3 to 450V | |
| Rated Capacitance Range | 6.8 to 4700µF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| Leakage Current | Rated voltage (V) | 6.3 to 100 |
| | | 160 to 450 |
| 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. After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (µA), whichever is greater. | | |
| Tangent of loss angle (tan δ) | For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency : 120Hz at 20°C | |
| | Rated voltage (V) | 6.3 10 16 25 35 50 63 100 160 to 350 400 to 450 |
| tan δ (MAX.) 0.28 0.24 0.20 0.16 0.14 0.12 0.10 0.08 0.20 0.25 | | |
| Stability at Low Temperature | Measurement frequency : 120Hz | |
| | Rated voltage (V) | 6.3 10 16 25 35 to 50 63 to 100 160 to 200 250 to 350 400 450 |
| | Impedance ratio | Z-25°C / Z+20°C 5 4 3 2 2 2 3 4 6 15 |
| ZT / Z20 (MAX.) Z-40°C / Z+20°C 10 8 6 4 3 3 4 8 10 — | | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C. | |
| | Capacitance change | Within ±20% of the initial capacitance value |
| | tan δ | 200% or less than the initial specified value |
| Leakage current Less than or equal to the initial specified value | | |
| 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. | |
| Marking | Printed with white color letter on black sleeve. | |

Radial Lead Type



| | | (mm) | | | | |
|----|-----------|------|-----|------|------|------|
| α | (φD < 20) | 1.5 | | | | |
| | (φD ≥ 20) | 2.0 | | | | |
| | | | | | | |
| φD | 12.5 | 16 | 18 | 20 | 22 | 25 |
| P | 5.0 | 7.5 | 7.5 | 10.0 | 10.0 | 12.5 |
| φd | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 |

Type numbering system (Example : 10V 2200µF)



※ Configuration

| φ D | Pb-free leadwire Pb-free PET sleeve |
|------------|--|
| 12.5 to 18 | HD |
| 20 to 25 | RD |

• 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.



■ Dimensions

| V | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | |
|----------|------|-------------|------|-----------|------|-------------|------|-------------|------|-------------|-----|---------------------------|-----------------|
| Cap.(μF) | Code | 0J | | 1A | | 1C | | 1E | | 1V | | 1H | |
| 330 | 331 | | | | | | | | | | | 12.5 × 12.5 | 450 |
| 470 | 471 | | | | | | | | | 12.5 × 12.5 | 420 | 20 × 12.5 | 540 |
| 680 | 681 | | | | | | | 12.5 × 12.5 | 500 | 18 × 12.5 | 610 | 25 × 12.5 | 700 |
| 1000 | 102 | | | | | 12.5 × 12.5 | 520 | 18 × 12.5 | 770 | 22 × 12.5 | 810 | | |
| 2200 | 222 | 12.5 × 12.5 | 580 | 18 × 12.5 | 820 | 25 × 12.5 | 1000 | 25 × 12.5 | 1170 | | | | |
| 3300 | 332 | 18 × 12.5 | 730 | 22 × 12.5 | 1030 | | | | | | | | |
| 4700 | 472 | 25 × 12.5 | 1200 | | | | | | | | | Case size φ D × L (mm) | Rated ripple |

| V | | 63 | | 100 | | 160 | | 200 | | 250 | | 315 | |
|----------|------|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-----------|-----|-------------|-----|
| Cap.(μF) | Code | 1J | | 2A | | 2C | | 2D | | 2E | | 2F | |
| 10 | 100 | | | | | | | | | | | 12.5 × 12.5 | 70 |
| 22 | 220 | | | | | | | 12.5 × 12.5 | 110 | 16 × 12.5 | 130 | 16 × 12.5 | 85 |
| 33 | 330 | | | | | 12.5 × 12.5 | 130 | 16 × 12.5 | 170 | 18 × 12.5 | 170 | 20 × 12.5 | 120 |
| 47 | 470 | | | | | 16 × 12.5 | 210 | 18 × 12.5 | 230 | 22 × 12.5 | 190 | 25 × 12.5 | 160 |
| 68 | 680 | | | | | 20 × 12.5 | 280 | 25 × 12.5 | 310 | | | | |
| 100 | 101 | | | 12.5 × 12.5 | 230 | 25 × 12.5 | 360 | | | | | | |
| 220 | 221 | 12.5 × 12.5 | 400 | 22 × 12.5 | 400 | | | | | | | | |
| 330 | 331 | 18 × 12.5 | 550 | | | | | | | | | | |
| 470 | 471 | 22 × 12.5 | 610 | | | | | | | | | | |

| V | | 350 | | 400 | | 450 | |
|----------|------|-----------|-----|-----------|-----|-------------|----|
| Cap.(μF) | Code | 2V | | 2G | | 2W | |
| 6.8 | 6R8 | | | | | 12.5 × 12.5 | 38 |
| 10 | 100 | 16 × 12.5 | 75 | 16 × 12.5 | 65 | 16 × 12.5 | 47 |
| 22 | 220 | 18 × 12.5 | 90 | 20 × 12.5 | 150 | 25 × 12.5 | 85 |
| 33 | 330 | 25 × 12.5 | 140 | 25 × 12.5 | 200 | | |

Rated ripple current (mA rms) at 105°C 120Hz

● Frequency coefficient of rated ripple current

| V | Cap.(μF) | Frequency | 50Hz | 120Hz | 300Hz | 1 kHz | 10 kHz or more |
|------------|--------------|-----------|------|-------|-------|-------|----------------|
| 6.3 to 100 | 100 to 680 | | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |
| | 1000 to 4700 | | 0.85 | 1.00 | 1.10 | 1.13 | 1.15 |
| 160 to 450 | 6.8 to 100 | | 0.80 | 1.00 | 1.25 | 1.40 | 1.60 |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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