

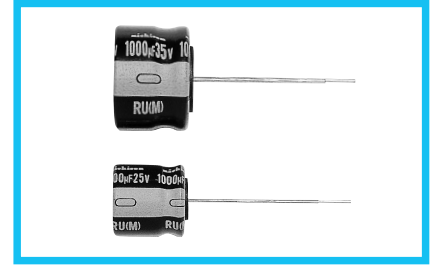
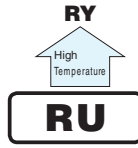
ALUMINUM ELECTROLYTIC CAPACITORS

RU 12.5mmL
series



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

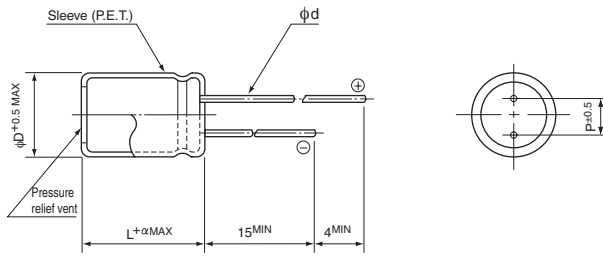
Products which are scheduled to be discontinued.
Not recommended for new designs



Specifications

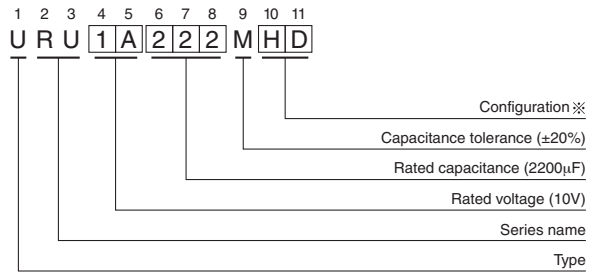
| Item | Performance Characteristics | |
|-------------------------------|--|---|
| Category Temperature Range | -40 to +85°C (6.3V to 400V), -25 to +85°C (450V) | |
| Rated Voltage Range | 6.3 to 450V | |
| Rated Capacitance Range | 6.8 to 6800µF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| 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. |
| 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 |
| Stability at Low Temperature | Measurement frequency : 120Hz | |
| | Rated voltage (V) | 6.3 10 16 25 35 50 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 |
| 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 85°C. | |
| | Capacitance change | tan δ |
| Shelf Life | After storing the capacitors under no load at 85°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 | |
| Marking | Printed with white color letter on black sleeve. | |

Radial Lead Type



| α | | (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 | 10 | 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.(μ F) | Code | 0J | | 1A | | 1C | | 1E | | 1V | | 1H | |
| 330 | 331 | | | | | | | | | | | 12.5 × 12.5 | 530 |
| 470 | 471 | | | | | | | | | | | 16 × 12.5 | 600 |
| 680 | 681 | | | | | | | | | 12.5 × 12.5 | 720 | 20 × 12.5 | 750 |
| 1000 | 102 | | | | | | | 12.5 × 12.5 | 750 | 18 × 12.5 | 850 | 25 × 12.5 | 930 |
| 2200 | 222 | | | 12.5 × 12.5 | 870 | 20 × 12.5 | 1200 | 25 × 12.5 | 1380 | | | | |
| 3300 | 332 | 16 × 12.5 | 800 | 18 × 12.5 | 1100 | 25 × 12.5 | 1410 | | | | | | |
| 4700 | 472 | 20 × 12.5 | 1460 | 25 × 12.5 | 1480 | | | | | | | | |
| 6800 | 682 | 25 × 12.5 | 1600 | | | | | | | | | Case size ϕ D × L (mm) | Rated ripple |

| V | | 63 | | 100 | | 160 | | 200 | | 250 | | 315 | |
|----------------|------|-------------|------|-------------|-----|-------------|-----|-------------|-----|-----------|-----|-----------|-----|
| Cap.(μ F) | Code | 1J | | 2A | | 2C | | 2D | | 2E | | 2F | |
| 22 | 220 | | | | | | | 12.5 × 12.5 | 190 | 16 × 12.5 | 190 | 16 × 12.5 | 190 |
| 33 | 330 | | | | | 12.5 × 12.5 | 230 | 16 × 12.5 | 230 | 18 × 12.5 | 230 | 20 × 12.5 | 230 |
| 47 | 470 | | | | | 16 × 12.5 | 280 | 18 × 12.5 | 280 | 20 × 12.5 | 280 | 25 × 12.5 | 280 |
| 68 | 680 | | | | | 18 × 12.5 | 330 | 22 × 12.5 | 330 | 25 × 12.5 | 330 | | |
| 100 | 101 | | | 12.5 × 12.5 | 330 | 22 × 12.5 | 380 | 25 × 12.5 | 380 | | | | |
| 220 | 221 | 12.5 × 12.5 | 490 | 22 × 12.5 | 620 | | | | | | | | |
| 330 | 331 | 18 × 12.5 | 710 | 25 × 12.5 | 760 | | | | | | | | |
| 470 | 471 | 22 × 12.5 | 900 | | | | | | | | | | |
| 680 | 681 | 25 × 12.5 | 1200 | | | | | | | | | | |

| V | | 350 | | 400 | | 450 | |
|----------------|------|-------------|-----|-----------|-----|-------------|-----|
| Cap.(μ F) | Code | 2V | | 2G | | 2W | |
| 6.8 | 6R8 | | | | | 12.5 × 12.5 | 70 |
| 10 | 100 | 12.5 × 12.5 | 110 | 16 × 12.5 | 110 | 16 × 12.5 | 80 |
| 22 | 220 | 18 × 12.5 | 230 | 20 × 12.5 | 230 | 22 × 12.5 | 160 |
| 33 | 330 | 20 × 12.5 | 230 | 25 × 12.5 | 280 | | |
| 47 | 470 | 25 × 12.5 | 280 | | | | |

Rated ripple current (mA rms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

| V | Cap.(μ F) | 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 6800 | | 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 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>Nichicon\(尼吉康\)](#)