

URY 12.5mmL Wide Temperature Range



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

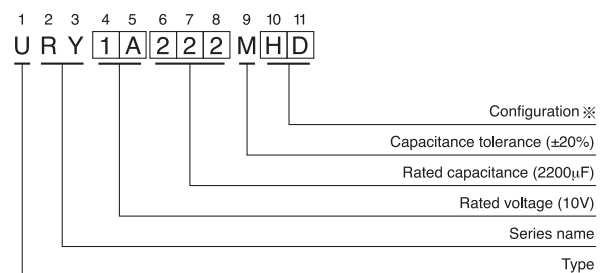
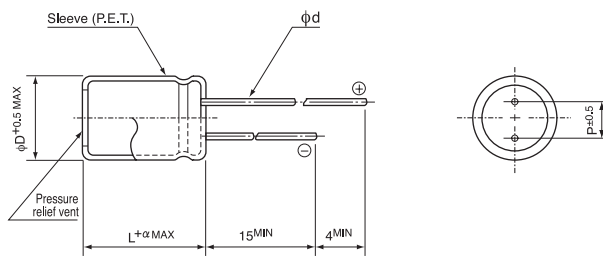


Specifications

| 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 |
| Stability at Low Temperature | tan δ (MAX.) | 0.28 0.24 0.20 0.16 0.14 0.12 0.10 0.08 0.20 0.25 |
| | 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 |
| Endurance | Impedance ratio | Z-25°C / Z+20°C 5 4 3 2 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 — |
| Shelf Life | 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 |
| Marking | 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. | |
| | Printed with white color letter on black sleeve. | |

Radial Lead Type

Type numbering system (Example : 10V 2200µF)



| α | (mm) | | | | | |
|----|---------|-----|-----|------|------|------|
| | φD < 20 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 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 |

| ※ 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.

URY

■ 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 (mArms) 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 |