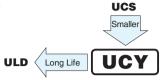


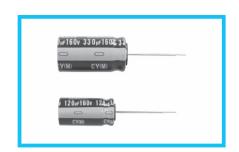
Miniature Sized, High Ripple Current,

High Reliability



- High ripple current and Long Life product withstanding load life of 10000 to 12000 hours at +105°C.
- Suited for ballast application.
- Compliant to the RoHS directive (2011/65/EU).

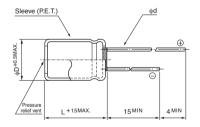




■ Specifications

| Item | Performance Characteristics | | | | | | | | | | | | | | |
|---------------------------------------|---|---------------------|--------------|----------|---------|---------|--------|----------|----------|---------|-------|------|---|--|--|
| Category Temperature Range | -40 to +105°C (160 to 400V), -25 to +105°C (420 to 500V) | | | | | | | | | | | | | | |
| Rated Voltage Range | 160 to 500V | | | | | | | | | | | | | | |
| Rated Capacitance Range | 6.8 to 680µF | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | ±20% at 120Hz, 20°C | | | | | | | | | | | | | |
| Leakage Current | After 1 minute's applic | cation of r | ated volta | ge at 20 | °C, lea | kage cı | urrent | is not m | ore thar | 0.04C | V+100 | (μΑ) | | | |
| | Measurement frequency : 120Hz at 20°C | | | | | | | | | | | | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 160 | 200 | 25 | 0 | 350 | 4 | 00 | 420 | 450 | | 500 |] | | |
| | tan δ (MAX.) | 0.20 | 0.20 | 0.2 | 20 | 0.24 | 0 | .24 | 0.24 | 0.24 | l. | 0.24 | | | |
| | Measurement frequency : 120Hz | | | | | | | | | | | | | | |
| | Rated voltage (V) | | | 160 200 | | 250 | 350 | 400 | 420 450 | | 500 | 1 | | | |
| Stability at Low Temperature | Impedance ratio ZT / Z20 (| MAX.) Z-25 | 5°C / Z+20°C | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | | | | |
| | | Z-40 | 0°C / Z+20°C | 6 | 6 | 6 | 6 | 6 | - | - | - | | | | |
| | The specifications listed at right shall be met when the | | | | | | | | | | | | | | |
| | capacitors are restored to 20°C after D.C. bias plus rated Capacitance change Within ±20% of the initial capacitance | | | | | | | | | e value | | | | | |
| Endurance | ripple current is applied for 12000 hours (10000 hours for 20L $\tan \delta$ 200% or less than the initial specified value | | | | | | | | | | | | | | |
| | or less, 500V) at 105°C, the peak voltage shall not exceed the rated voltage. Leakage current Less than or equal to the initial specified value Less than or equal to the initial specified value | | | | | | | | | | 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. | | | | | | | | S C | | | | | | |
| Marking | Printed with white cold | or letter o | n dark bro | wn slee | ve. | | | | | | | | | | |

Radial Lead Type



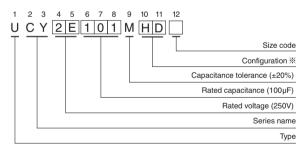


| | | | | (mm) |
|----|-----|------|-----|------|
| φD | 10 | 12.5 | 16 | 18 |
| Р | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.6 | 0.6* | 0.8 | 0.8 |

% In case L > 25 for the $\varphi 12.5$ dia. unit, lead dia. φ d = 0.8mm.

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

Type numbering system (Example : 250V 100μF)



※ Configuration

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

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

UCY

Dimensions

| V | | V 160 | | | 250 | 350 | | 400 | | 420 | | 450 | | 500 | | |
|------|--|---|--|--|---|---|--|--------------------------|-------------------------------|-------------------------------|------------------------------------|------------------------------------|---|--|--|-------|
| Code | 2C | | 2D | | 2E | 2V | | 2G | | W6 | | 2W | | 2H | | |
| 6R8 | | I I | | | 1 | | l I | 10 × 16 | 140 | 10 × 16 | 105 | 10 × 16 | 105 | | 1 | |
| 100 | | l - | | | | | 1 | 10 × 16 | 150 | 10 × 20 | 135 | 10 × 20 | 135 | 12.5 × 20 | 160 | |
| 120 | | I I | ı | | 1 | 10 × 16 | 160 | 10 × 20 | 175 | 10 × 20 | 150 | 10 × 20 | 150 | 40.5 05 | 1 000 | |
| 150 | | i I | i | | | 10 × 20 | 180 | 10 × 20 | 180 | 10 × 25 | 185 | 10 × 25 | 185 | | 220 | |
| 400 | | 1 | | | | 10.00 | | | | 40.04.5 | | 10 × 31 5 | 215 | | 240 | |
| 180 | | 1 | | | | 10 × 20 | 215 | 10 × 25 | 235 | 10 × 31.5 | 215 | | | ● 16 × 20 | 240 | |
| | | 1 | i | | i | 10 × 25 | 255 | | 1 | | 1 | | | 12.5 × 35.5 | 280 | |
| 220 | | I I | 10 × 16 | 225 | 10 × 16 225 | ○10×20 | 215 | 10 × 31.5 | 275 | 12.5 × 20 | 285 | 12.5 × 25 | 300 | <u>16 × 25</u> | 280 | |
| | | I I | 1 | | 1 | | 1 | | I I | | I I | | | | 280 | |
| 270 | | I I | 10 × 16 | 235 | 10 × 20 ¦ 255 | F | | 12.5 × 20 | 360 | 12.5 × 25 | 340 | 12.5 × 25 | 340 | <u> </u> | 310 | |
| | | - | | | 10 × 20 305 | | - | 12.5 × 25 | 385 | 12.5 × 31.5 | 400 | 12.5 × 31.5 | 400 | | + | |
| 330 | 10 × 16 | 260 | 10 × 20 | 305 | <u> </u> | + | + | + | + | + | + | | | | 350 | |
| | | I | | | ! | | 1 | | 1 | 0 10 × 20 | 1 000 | | 1 | ● 10 × 20 | 1 | |
| 390 | 10 × 16 | 295 | 10 × 20 | 325 | 10 × 25 ¦ 345 | 12.5 × 25 | 455 | | | 12.5 × 31.5 | 430 | F ' | | 16 × 35.5 | 380 | |
| | | ı | 10 × 20 | 360 | 10 × 31.5 405 | 12.5 × 25 | 510 | 16×20 | 520 | 12.5 × 35.5 | 505 | 12.5 × 40 | 525 | 16 × 40 | 440 | |
| 470 | 10 × 20 | 375 | ■ 12.5 × 20 | 490 | 0 10 × 25 1 345 | ● 16 × 20 | 1 1 540 | <u>▲</u> 12.5 × 31.5 | 510 | <u>▲ 16 × 25</u> | 500 | ▲ 16 ∨ 25 | 500 | ▲ 18 ∨ 31 5 | 1 440 | |
| | | I I | 1 | 100 | ● 12.5 × 20 490 | | 1 | | | ● 18 × 20 | 480 | | l . | = 10 × 01.0 | 1 440 | |
| 560 | 10 × 20 | 10 × 20 1 380 | 10 × 20 380 | 10 × 25 | 415 | 12.5 × 20 ¦ 515 | 12.5 × 31.5 | _ 590 | + | | 105 × 10 | I I 570 | _ 16×31.5 | _ 585_ | 18 ~ 35 5 | 1 480 |
| | | i i | 10 / 20 | | į | ▲ 16 × 20 | 565 | | | 12.3 × 40 | 1 370 | ● 18 × 25 | 560 | | 1 | |
| | 10 × 25 | 455 | 10 × 31.5 | 485 | 12.5 × 25 615 | 12.5 × 35.5 | 695 | 12.5 × 40 | 720 | 16 × 31.5 | 645 | | | | 1 | |
| 680 | 12.5 × 20 | 590 | 125 × 20 | 650 | 16 × 20 | ● 16 × 25 | 700 | ○16 × 25 | 640 | 1 | 1 – – – ¹ 615 | 16 × 35.5 | 660 | 18 × 40 | 525 | |
| | | | i | | | ▲ 18 × 20 | 690 | ● 18 × 25 | 735 | _ | | | | | I | |
| | | | + | | + | + | т — — : | 16×31.5 | 805 | _ <u>16 × 35.5</u> _ | 725 | 16 × 40 | 750 | ! | 1 | |
| 820 | 10 x 25 | L 400 | 1 0 12.5 × 20 1 | | 1 0 12.5 × 25 ₁ 615 | + | | ■ 18 × 25 | ı ı 765 | ▲ 18 × 31.5 | 730 | ▲ 18 × 31.5 | 730 | | 1 | |
| | ● 12.5 × 20 | 640 | ● 16 × 20 | 690 | ● 16 × 20 690 | | ⊢ − − | 0.07.20 | | | I I | | | | 1 | |
| 101 | 40.5 00 | 1 045 | 12.5 × 25 | 695 | 16 × 20 715 | 16 × 31.5 | 825 | 16 × 35.5 | 850 | 16 × 40 | 825 | 18 × 35 5 | 835 | | 1 | |
| 101 | 12.5 × 20 | 045 | ● 16 × 20 | 710 | ▲12.5 × 35.5 785 | | 790 | ▲ 18 × 31.5 | 875 | ▲ 18 × 35.5 | 835 | 10 × 00.0 | 000 | | i | |
| | 12.5 × 25 760 | 1 | 16×20_ | 775 | + | 16 × 35.5 | 925 | 18 × 31.5 | 940 | 18 × 40 | 930 | 18 × 40 | 930 | | 1 | |
| 121 | | 760 | 105 × 215 | ▲ 12.5 × 31.5. 810 | F | 1 | 940 | _ 16 × 40 | 950 | ▲ 18 × 46 | 1 1 945 | ▲ 18 × 46 945 | 945 | | 1 | |
| | | I I | 12.0 × 01.0 | 010 | | - 10 × 01.5 | 1 040 | ● 18 × 35.5 | 960 | 1071.0 | 1 | 107110 | | | 1 1 | |
| | 12.5 × 31.5 | 905 | 12.5 × 35.5 | 965 | 18 × 25 970 | 18 × 35.5 | 1080 | | 1 | | 1 | | | | 1 | |
| 151 | ○ 12.5 × 25 | 760 | ● 16 × 25 | 945 | ▲12.5 × 40 | 16 × 40 | 1000 | 18 × 40 | 1030 | | l I | | l I | | 1 | |
| | | | | | | -107110 | 1 | | 1 | | | | | ı | 1 | |
| 101 | | | + | | 16 × 31.5 1110 | 10 × 10 | 11205 | 10 16 | 1110 | | | | | | 1 | |
| 181 | | H | + + | | ▲ 18 × 25 1050 | 10 X 40 | 1205 | 10 X 40 | 11110 | | | | | | į | |
| | _ | | | | 16 × 40 1295 | | 1 | | 1 | | 1 | | | | 1 | |
| 004 | ○ 12.5 × 35.5 | 1050 | + + | | ○ 16 × 35.5 1220 | 10 | 1 1000 | | l I | | 1 | | | | 1 | |
| 221 | | | 10 20 1 | 1105 | 10 × 21 E 1160 | | 1300 | | I I | | l I | | | | 1 | |
| | | | | | | | 1 | | l | | l - | | | | 1 | |
| 271 | | | | | | | 1 | | I I | | l I | | | ! | 1 | |
| | _ | _ | | | | | - | | - | | | | | | - | |
| 331 | | | | | 0 18 × 40 11530 | - | | | i | | | | | | | |
| | 16 × 40 + 173 | | | | 1 1 222 | 1 | 1 | | 1 | | | | | | 1 | |
| + | 16 × 40 | 1730 | 18 × 40 | 1780 | ' | | | | | | ı | | l | | | |
| 391 | $\boxed{0.16 \times 35.5}$ | 1510 | † ₁ | | | | 1 | | I I | | ! ! ! | | | ! | | |
| 391 | ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | 1510 1695 | ○ 18 × 35.5 | 1690 | 1 | | | | | | | | | | | |
| 391 | $ \begin{array}{c c} \hline $ | 1510 1695 1920 | 18 × 35.5 | 1690 1850 | | | | | | | | | | | | |
| | ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | 1510 1695 1920 1730 | ○ 18 × 35.5 | 1690 1850 1900 | | | | | | | | | | Case size | | |
| | Code 6R8 100 120 150 180 220 270 330 390 470 560 680 820 101 121 151 181 221 | Code 2C 6R8 100 120 150 180 220 270 330 10 × 16 390 10 × 16 470 10 × 20 560 10 × 20 560 10 × 20 12.5 × 20 101 12.5 × 20 101 12.5 × 20 111 12.5 × 25 151 12.5 × 25 16 × 20 181 12.5 × 31.5 12.5 × 35.5 12.5 × 40 12.5 × 30.5 12.5 × 40 221 18 × 25 18 × 20 271 18 × 25 18 × 20 271 18 × 25 18 × 20 271 18 × 25 18 × 20 271 18 × 25 18 × 20 271 18 × 25 18 × 20 271 18 × 25 16 × 31.5 16 × 31.5 16 × 31.5 | Code 2C 6R8 100 120 150 180 220 270 220 330 10 × 16 260 390 10 × 16 295 470 10 × 20 380 10 × 25 455 455 680 12.5 × 20 590 10 × 31.5 534 534 101 × 25 455 455 450 12.5 × 20 640 101 12.5 × 25 760 12.5 × 20 645 121 12.5 × 25 760 151 12.5 × 25 760 16 × 20 945 16 × 20 945 16 × 20 1000 12.5 × 31.5 905 12.5 × 40 105 12.5 × 40 1105 18 × 25 1105 18 × 25 1105 18 × 21 11030 271 18 × 25 1350 16 × | Code 2C 2D 6R8 100 120 150 150 10 × 16 220 10 × 16 260 10 × 20 330 10 × 16 295 10 × 20 390 10 × 16 295 10 × 20 470 10 × 20 375 10 × 20 560 10 × 20 380 10 × 25 680 12.5 × 20 590 12.5 × 20 820 10 × 25 455 10 × 31.5 12.5 × 20 101 12.5 × 20 640 16 × 20 16 × 20 121 12.5 × 25 760 16 × 20 16 × 20 121 12.5 × 31.5 905 12.5 × 35.5 16 × 20 181 12.5 × 31.5 905 12.5 × 35.5 16 × 20 16 × 20 181 12.5 × 31.5 905 12.5 × 40 18 × 20 18 × 20 12.5 × 40 12.5 × 40 12.5 × 40 18 × 20 12.5 × 40 18 × 25 12.5 × 40 12.5 × 40 | Code 2C 2D 6R8 100 120 150 150 10 × 16 225 270 10 × 16 235 330 10 × 16 260 10 × 20 305 390 10 × 16 295 10 × 20 360 470 10 × 20 375 10 × 20 360 560 10 × 20 380 10 × 25 415 680 12.5 × 20 590 12.5 × 20 650 10 × 31.5 534 12.5 × 20 645 101 12.5 × 20 645 12.5 × 20 690 101 12.5 × 20 645 12.5 × 25 695 151 12.5 × 25 760 12.5 × 25 945 151 12.5 × 25 760 12.5 × 31.5 810 151 12.5 × 25 760 12.5 × 31.5 810 151 12.5 × 35.5 1050 12.5 × 31.5 905 16 × 20 775 16 × 25 | Code 2C 2D 2E 6R8 100 120 150 10 × 16 225 10 × 16 225 150 150 10 × 16 225 10 × 16 225 10 × 16 225 270 10 × 16 260 10 × 20 305 10 × 20 305 330 10 × 16 295 10 × 20 325 10 × 25 345 470 10 × 20 375 10 × 20 360 10 × 31.5 405 560 10 × 20 380 10 × 25 415 12.5 × 20 490 10 × 21 380 10 × 25 415 12.5 × 20 515 680 12.5 × 20 590 12.5 × 20 650 16 × 20 650 101 12.5 × 20 640 16 × 20 690 16 × 20 665 101 12.5 × 20 645 12.5 × 25 695 16 × 20 690 101 12.5 × 25 760 16 × 20 775 | Code 2C 2D 2E 2V 6R8 100 120 10 × 16 225 10 × 16 10 × 20 180 10 × 16 225 10 × 16 225 10 × 16 225 10 × 20 220 10 × 16 235 10 × 20 255 10 × 31.5 10 × 20 270 10 × 16 260 10 × 20 305 10 × 20 255 10 × 31.5 10 × 20 330 10 × 16 295 10 × 20 305 10 × 20 355 12.5 × 20 400 16 × 20 470 10 × 20 375 10 × 20 360 10 × 31.5 405 12.5 × 20 400 16 × 20 560 10 × 20 380 10 × 25 415 12.5 × 20 515 12.5 × 25 10 × 25 455 10 × 31.5 485 12.5 × 25 615 12.5 × 35.5 680 12.5 × 20 590 12.5 × 20 650 16 × 20 650 16 × 25 18 × 25 | Code 2C 2D 2E 2V | Code 2C 2D 2E 2V 2G | Code 2C 2D 2E 2V 2G | Code 2C 2D 2E 2V 2G W6 | Code 2C 2D 2E 2V 2G W6 | Code 2C 2D 2E 2V 2G W6 10 10 10 10 10 10 10 1 | Code 2C 2D 2E 2V 2G W6 10 2W | Code 2C 2D 2E 2V 2G W6 2W 2H | |

• Frequency coefficient of rated ripple current

| Frequency 50H | | 120Hz | 1kHz | 10kHz | 100kHz or more | | |
|---------------|------|-------|------|-------|----------------|--|--|
| Coefficient | 0.80 | 1.00 | 1.60 | 1.80 | 2.00 | | |

※: Rated ripple current (mArms) at 105°C 120Hz

 \blacktriangle : In this case, $\boxed{6}$ will be put at 12th digit of type numbering system.

•: In this case, 3 will be put at 12th digit of type numbering system.

 \bigcirc : In this case, $\boxed{9}$ will be put at 12th digit of type numbering system.