

# UCY

Miniature Sized, High Ripple Current,  
High Reliability



Smaller

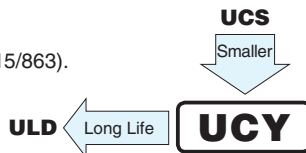


Long Life



High Ripple  
Current

- High ripple current and Long Life product withstanding load life of 10000 to 12000 hours at +105°C.
- Suited for power supply and ballast application.
- Compliant to the RoHS directive (2011/65/EU,(EU) 2015/863).
- AEC-Q200 compliant. Please contact us for details.

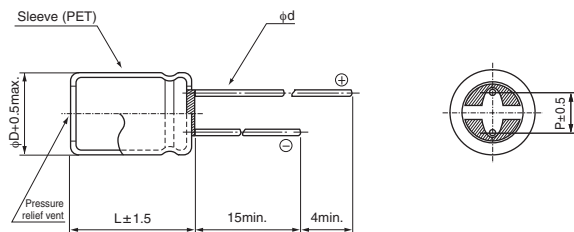


## Specifications

| Item                          | Performance Characteristics                                                                                                                                                                                                                                      |                     |      |      |      |                    |      |                                                   |      |     |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------|------|--------------------|------|---------------------------------------------------|------|-----|
| Category Temperature Range    | -40 to +105°C                                                                                                                                                                                                                                                    |                     |      |      |      |                    |      |                                                   |      |     |
| Rated Voltage Range           | 160 to 500V                                                                                                                                                                                                                                                      |                     |      |      |      |                    |      |                                                   |      |     |
| Rated Capacitance Range       | 6.8 to 680μF                                                                                                                                                                                                                                                     |                     |      |      |      |                    |      |                                                   |      |     |
| 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 0.04CV+100 (μA)                                                                                                                                                          |                     |      |      |      |                    |      |                                                   |      |     |
| Tangent of loss angle (tan δ) | Measurement frequency : 120Hz at 20°C                                                                                                                                                                                                                            |                     |      |      |      |                    |      |                                                   |      |     |
|                               | Rated voltage (V)                                                                                                                                                                                                                                                | 160                 | 200  | 250  | 350  | 400                | 420  | 450                                               | 500  |     |
|                               | tan δ (max.)                                                                                                                                                                                                                                                     | 0.20                | 0.20 | 0.20 | 0.24 | 0.24               | 0.24 | 0.24                                              | 0.24 |     |
| Stability at Low Temperature  | Measurement frequency : 120Hz                                                                                                                                                                                                                                    |                     |      |      |      |                    |      |                                                   |      |     |
|                               | Rated voltage (V)                                                                                                                                                                                                                                                |                     | 160  | 200  | 250  | 350                | 400  | 420                                               | 450  | 500 |
|                               | Impedance ratio (max.)                                                                                                                                                                                                                                           | Z(-25°C) / Z(+20°C) | 3    | 3    | 3    | 5                  | 5    | 6                                                 | 6    | 6   |
| Z(-40°C) / Z(+20°C)           |                                                                                                                                                                                                                                                                  | 6                   | 6    | 6    | 6    | 6                  | -    | -                                                 | -    |     |
| 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 12000 hours (10000 hours for 20L or less, 500V) at 105°C, the peak voltage shall not exceed the rated voltage. |                     |      |      |      | 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 dark brown sleeve.                                                                                                                                                                                                            |                     |      |      |      |                    |      |                                                   |      |     |

※ I : Leakage Current (µA), C : Rated Capacitance (µF), V : Rated Voltage (V)

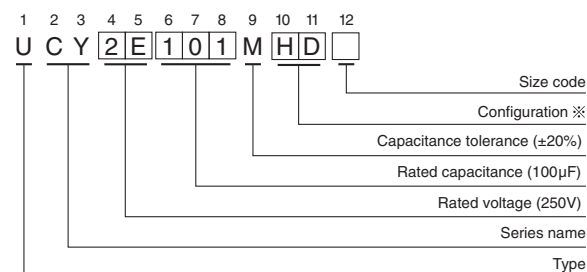
## Radial Lead Type



|    | (mm) |      |     |     |
|----|------|------|-----|-----|
| φD | 10   | 12.5 | 16  | 18  |
| P  | 5.0  | 5.0  | 7.5 | 7.5 |
| φd | 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 : 250V 100µF)



※ Configuration

| φ D        | Pb-free leadwire<br>Pb-free PET sleeve |
|------------|----------------------------------------|
| 10         | PD                                     |
| 12.5 to 18 | HD                                     |

- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

## Frequency coefficient of rated ripple current

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

● Dimension table in next page.

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## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated<br>Capacitance<br>(μF) | Case Size<br>φD×L (mm) | tan δ | Leakage Current<br>(μA)<br>(at 20°C after<br>1 minute) | Rated Ripple<br>(mArms)<br>(105°C/120Hz) | Part Number  |
|--------------------------------|------------------------------|------------------------|-------|--------------------------------------------------------|------------------------------------------|--------------|
| 160<br>(2C)                    | 33                           | 10×16                  | 0.20  | 311.2                                                  | 260                                      | UCY2C330MPD  |
|                                | 39                           | 10×16                  | 0.20  | 349.6                                                  | 295                                      | UCY2C390MPD  |
|                                | 47                           | 10×20                  | 0.20  | 400.8                                                  | 375                                      | UCY2C470MPD  |
|                                | 56                           | 10×20                  | 0.20  | 458.4                                                  | 380                                      | UCY2C560MPD  |
|                                | 68                           | 10×25                  | 0.20  | 535.2                                                  | 455                                      | UCY2C680MPD  |
|                                | 68                           | 12.5×20                | 0.20  | 535.2                                                  | 590                                      | UCY2C680MHD3 |
|                                | 82                           | 10×30.5                | 0.20  | 624.8                                                  | 534                                      | UCY2C820MPD  |
|                                | 82                           | 10×25                  | 0.20  | 624.8                                                  | 455                                      | UCY2C820MPD9 |
|                                | 82                           | 12.5×20                | 0.20  | 624.8                                                  | 640                                      | UCY2C820MHD3 |
|                                | 100                          | 12.5×20                | 0.20  | 740                                                    | 645                                      | UCY2C101MHD  |
|                                | 120                          | 12.5×25                | 0.20  | 868                                                    | 760                                      | UCY2C121MHD  |
|                                | 150                          | 12.5×30.5              | 0.20  | 1060                                                   | 905                                      | UCY2C151MHD  |
|                                | 150                          | 12.5×25                | 0.20  | 1060                                                   | 760                                      | UCY2C151MHD9 |
|                                | 150                          | 16×20                  | 0.20  | 1060                                                   | 945                                      | UCY2C151MHD3 |
|                                | 180                          | 16×20                  | 0.20  | 1252                                                   | 1000                                     | UCY2C181MHD  |
|                                | 180                          | 12.5×30.5              | 0.20  | 1252                                                   | 905                                      | UCY2C181MHD9 |
|                                | 180                          | 12.5×35.5              | 0.20  | 1252                                                   | 1050                                     | UCY2C181MHD6 |
|                                | 220                          | 12.5×40                | 0.20  | 1508                                                   | 1200                                     | UCY2C221MHD  |
|                                | 220                          | 12.5×35.5              | 0.20  | 1508                                                   | 1050                                     | UCY2C221MHD9 |
|                                | 220                          | 16×25                  | 0.20  | 1508                                                   | 1185                                     | UCY2C221MHD3 |
|                                | 220                          | 18×20                  | 0.20  | 1508                                                   | 1105                                     | UCY2C221MHD6 |
|                                | 270                          | 18×25                  | 0.20  | 1828                                                   | 1235                                     | UCY2C271MHD  |
|                                | 270                          | 12.5×40                | 0.20  | 1828                                                   | 1300                                     | UCY2C271MHD6 |
|                                | 330                          | 16×30.5                | 0.20  | 2212                                                   | 1510                                     | UCY2C331MHD  |
|                                | 330                          | 18×25                  | 0.20  | 2212                                                   | 1445                                     | UCY2C331MHD6 |
|                                | 390                          | 16×40                  | 0.20  | 2596                                                   | 1730                                     | UCY2C391MHD  |
|                                | 390                          | 16×35.5                | 0.20  | 2596                                                   | 1510                                     | UCY2C391MHD9 |
|                                | 390                          | 18×30.5                | 0.20  | 2596                                                   | 1695                                     | UCY2C391MHD6 |
|                                | 470                          | 18×35.5                | 0.20  | 3108                                                   | 1920                                     | UCY2C471MHD  |
|                                | 470                          | 16×40                  | 0.20  | 3108                                                   | 1730                                     | UCY2C471MHD6 |
|                                | 560                          | 18×40                  | 0.20  | 3684                                                   | 2130                                     | UCY2C561MHD  |
|                                | 680                          | 18×46                  | 0.20  | 4452                                                   | 2300                                     | UCY2C681MHD  |
| 200<br>(2D)                    | 22                           | 10×16                  | 0.20  | 276                                                    | 225                                      | UCY2D220MPD  |
|                                | 27                           | 10×16                  | 0.20  | 316                                                    | 235                                      | UCY2D270MPD  |
|                                | 33                           | 10×20                  | 0.20  | 364                                                    | 305                                      | UCY2D330MPD  |
|                                | 39                           | 10×20                  | 0.20  | 412                                                    | 325                                      | UCY2D390MPD  |
|                                | 47                           | 10×20                  | 0.20  | 476                                                    | 360                                      | UCY2D470MPD  |
|                                | 47                           | 12.5×20                | 0.20  | 476                                                    | 490                                      | UCY2D470MHD3 |
|                                | 56                           | 10×25                  | 0.20  | 548                                                    | 415                                      | UCY2D560MPD  |
|                                | 68                           | 10×30.5                | 0.20  | 644                                                    | 485                                      | UCY2D680MPD  |
|                                | 68                           | 12.5×20                | 0.20  | 644                                                    | 650                                      | UCY2D680MHD3 |
|                                | 82                           | 12.5×25                | 0.20  | 756                                                    | 645                                      | UCY2D820MHD  |
|                                | 82                           | 12.5×20                | 0.20  | 756                                                    | 645                                      | UCY2D820MHD9 |
|                                | 82                           | 16×20                  | 0.20  | 756                                                    | 690                                      | UCY2D820MHD3 |
|                                | 100                          | 12.5×25                | 0.20  | 900                                                    | 695                                      | UCY2D101MHD  |
|                                | 100                          | 16×20                  | 0.20  | 900                                                    | 710                                      | UCY2D101MHD3 |

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).  
If there is no size code in the part number, please add size code "1" and then add the appropriate code.

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## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated Capacitance<br>( $\mu$ F) | Case Size<br>$\phi$ D×L (mm) | $\tan \delta$ | Leakage Current<br>( $\mu$ A)<br>(at 20°C after<br>1 minute) | Rated Ripple<br>(mArms)<br>(105°C/120Hz) | Part Number  |
|--------------------------------|---------------------------------|------------------------------|---------------|--------------------------------------------------------------|------------------------------------------|--------------|
| 200<br>(2D)                    | 120                             | 16×20                        | 0.20          | 1060                                                         | 775                                      | UCY2D121MHD  |
|                                | 120                             | 12.5×30.5                    | 0.20          | 1060                                                         | 810                                      | UCY2D121MHD6 |
|                                | 150                             | 12.5×35.5                    | 0.20          | 1300                                                         | 965                                      | UCY2D151MHD  |
|                                | 150                             | 16×25                        | 0.20          | 1300                                                         | 945                                      | UCY2D151MHD3 |
|                                | 150                             | 18×20                        | 0.20          | 1300                                                         | 910                                      | UCY2D151MHD6 |
|                                | 180                             | 12.5×40                      | 0.20          | 1540                                                         | 1090                                     | UCY2D181MHD  |
|                                | 180                             | 16×25                        | 0.20          | 1540                                                         | 1035                                     | UCY2D181MHD6 |
|                                | 180                             | 18×20                        | 0.20          | 1540                                                         | 910                                      | UCY2D181MHD3 |
|                                | 220                             | 16×30.5                      | 0.20          | 1860                                                         | 1230                                     | UCY2D221MHD  |
|                                | 220                             | 12.5×40                      | 0.20          | 1860                                                         | 1090                                     | UCY2D221MHD6 |
|                                | 220                             | 18×25                        | 0.20          | 1860                                                         | 1185                                     | UCY2D221MHD3 |
|                                | 270                             | 16×35.5                      | 0.20          | 2260                                                         | 1400                                     | UCY2D271MHD  |
|                                | 270                             | 18×30.5                      | 0.20          | 2260                                                         | 1410                                     | UCY2D271MHD6 |
|                                | 330                             | 16×40                        | 0.20          | 2740                                                         | 1595                                     | UCY2D331MHD  |
|                                | 330                             | 18×30.5                      | 0.20          | 2740                                                         | 1560                                     | UCY2D331MHD6 |
|                                | 390                             | 18×40                        | 0.20          | 3220                                                         | 1780                                     | UCY2D391MHD  |
|                                | 390                             | 18×35.5                      | 0.20          | 3220                                                         | 1690                                     | UCY2D391MHD9 |
|                                | 470                             | 18×40                        | 0.20          | 3860                                                         | 1850                                     | UCY2D471MHD  |
|                                | 470                             | 18×46                        | 0.20          | 3860                                                         | 1900                                     | UCY2D471MHD6 |
| 250<br>(2E)                    | 22                              | 10×16                        | 0.20          | 320                                                          | 225                                      | UCY2E220MPD  |
|                                | 27                              | 10×20                        | 0.20          | 370                                                          | 255                                      | UCY2E270MPD  |
|                                | 33                              | 10×20                        | 0.20          | 430                                                          | 305                                      | UCY2E330MPD  |
|                                | 33                              | 12.5×20                      | 0.20          | 430                                                          | 400                                      | UCY2E330MHD3 |
|                                | 39                              | 10×25                        | 0.20          | 490                                                          | 345                                      | UCY2E390MPD  |
|                                | 47                              | 10×30.5                      | 0.20          | 570                                                          | 405                                      | UCY2E470MPD  |
|                                | 47                              | 10×25                        | 0.20          | 570                                                          | 345                                      | UCY2E470MPD9 |
|                                | 47                              | 12.5×20                      | 0.20          | 570                                                          | 490                                      | UCY2E470MHD3 |
|                                | 56                              | 12.5×20                      | 0.20          | 660                                                          | 515                                      | UCY2E560MHD  |
|                                | 68                              | 12.5×25                      | 0.20          | 780                                                          | 615                                      | UCY2E680MHD  |
|                                | 68                              | 16×20                        | 0.20          | 780                                                          | 650                                      | UCY2E680MHD3 |
|                                | 82                              | 12.5×30.5                    | 0.20          | 920                                                          | 715                                      | UCY2E820MHD  |
|                                | 82                              | 12.5×25                      | 0.20          | 920                                                          | 615                                      | UCY2E820MHD9 |
|                                | 82                              | 16×20                        | 0.20          | 920                                                          | 690                                      | UCY2E820MHD3 |
|                                | 100                             | 16×20                        | 0.20          | 1100                                                         | 715                                      | UCY2E101MHD  |
|                                | 100                             | 12.5×35.5                    | 0.20          | 1100                                                         | 785                                      | UCY2E101MHD6 |
|                                | 120                             | 16×25                        | 0.20          | 1300                                                         | 845                                      | UCY2E121MHD  |
|                                | 120                             | 12.5×35.5                    | 0.20          | 1300                                                         | 785                                      | UCY2E121MHD9 |
|                                | 120                             | 12.5×40                      | 0.20          | 1300                                                         | 890                                      | UCY2E121MHD3 |
|                                | 120                             | 18×20                        | 0.20          | 1300                                                         | 815                                      | UCY2E121MHD6 |
|                                | 150                             | 18×25                        | 0.20          | 1600                                                         | 970                                      | UCY2E151MHD  |
|                                | 150                             | 12.5×40                      | 0.20          | 1600                                                         | 990                                      | UCY2E151MHD6 |
|                                | 180                             | 16×30.5                      | 0.20          | 1900                                                         | 1110                                     | UCY2E181MHD  |
|                                | 180                             | 18×25                        | 0.20          | 1900                                                         | 1050                                     | UCY2E181MHD6 |
|                                | 220                             | 16×40                        | 0.20          | 2300                                                         | 1295                                     | UCY2E221MHD  |
|                                | 220                             | 16×35.5                      | 0.20          | 2300                                                         | 1220                                     | UCY2E221MHD9 |
|                                | 220                             | 18×30.5                      | 0.20          | 2300                                                         | 1160                                     | UCY2E221MHD3 |

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If there is no size code in the part number, please add size code "1" and then add the appropriate code.

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## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated Capacitance<br>( $\mu$ F) | Case Size<br>$\phi$ D×L (mm) | $\tan \delta$ | Leakage Current<br>( $\mu$ A)<br>(at 20°C after<br>1 minute) | Rated Ripple<br>(mArms)<br>(105°C/120Hz) | Part Number  |
|--------------------------------|---------------------------------|------------------------------|---------------|--------------------------------------------------------------|------------------------------------------|--------------|
| 250<br>(2E)                    | 270                             | 18×35.5                      | 0.20          | 2800                                                         | 1450                                     | UCY2E271MHD  |
|                                | 270                             | 16×40                        | 0.20          | 2800                                                         | 1350                                     | UCY2E271MHD6 |
|                                | 330                             | 18×46                        | 0.20          | 3400                                                         | 1600                                     | UCY2E331MHD  |
|                                | 330                             | 18×40                        | 0.20          | 3400                                                         | 1530                                     | UCY2E331MHD9 |
| 350<br>(2V)                    | 12                              | 10×16                        | 0.24          | 268                                                          | 160                                      | UCY2V120MPD  |
|                                | 15                              | 10×20                        | 0.24          | 310                                                          | 180                                      | UCY2V150MPD  |
|                                | 18                              | 10×20                        | 0.24          | 352                                                          | 215                                      | UCY2V180MPD  |
|                                | 22                              | 10×25                        | 0.24          | 408                                                          | 255                                      | UCY2V220MPD  |
|                                | 22                              | 10×20                        | 0.24          | 408                                                          | 215                                      | UCY2V220MPD9 |
|                                | 22                              | 12.5×20                      | 0.24          | 408                                                          | 325                                      | UCY2V220MHD3 |
|                                | 27                              | 10×30.5                      | 0.24          | 478                                                          | 305                                      | UCY2V270MPD  |
|                                | 27                              | 10×25                        | 0.24          | 478                                                          | 255                                      | UCY2V270MPD9 |
|                                | 33                              | 12.5×20                      | 0.24          | 562                                                          | 380                                      | UCY2V330MHD  |
|                                | 33                              | 16×20                        | 0.24          | 562                                                          | 450                                      | UCY2V330MHD3 |
|                                | 39                              | 12.5×25                      | 0.24          | 646                                                          | 455                                      | UCY2V390MHD  |
|                                | 47                              | 12.5×25                      | 0.24          | 758                                                          | 510                                      | UCY2V470MHD  |
|                                | 47                              | 16×20                        | 0.24          | 758                                                          | 540                                      | UCY2V470MHD3 |
|                                | 56                              | 12.5×30.5                    | 0.24          | 884                                                          | 590                                      | UCY2V560MHD  |
|                                | 56                              | 16×20                        | 0.24          | 884                                                          | 565                                      | UCY2V560MHD6 |
|                                | 68                              | 12.5×35.5                    | 0.24          | 1052                                                         | 695                                      | UCY2V680MHD  |
|                                | 68                              | 16×25                        | 0.24          | 1052                                                         | 700                                      | UCY2V680MHD3 |
|                                | 68                              | 18×20                        | 0.24          | 1052                                                         | 690                                      | UCY2V680MHD6 |
|                                | 82                              | 16×30.5                      | 0.24          | 1248                                                         | 740                                      | UCY2V820MHD  |
|                                | 82                              | 12.5×40                      | 0.24          | 1248                                                         | 785                                      | UCY2V820MHD6 |
|                                | 82                              | 16×25                        | 0.24          | 1248                                                         | 700                                      | UCY2V820MHD9 |
|                                | 82                              | 18×25                        | 0.24          | 1248                                                         | 765                                      | UCY2V820MHD3 |
|                                | 100                             | 16×30.5                      | 0.24          | 1500                                                         | 825                                      | UCY2V101MHD  |
|                                | 100                             | 18×25                        | 0.24          | 1500                                                         | 790                                      | UCY2V101MHD3 |
|                                | 120                             | 16×35.5                      | 0.24          | 1780                                                         | 925                                      | UCY2V121MHD  |
|                                | 120                             | 18×30.5                      | 0.24          | 1780                                                         | 940                                      | UCY2V121MHD6 |
|                                | 150                             | 18×35.5                      | 0.24          | 2200                                                         | 1080                                     | UCY2V151MHD  |
|                                | 150                             | 16×40                        | 0.24          | 2200                                                         | 1000                                     | UCY2V151MHD6 |
|                                | 180                             | 18×40                        | 0.24          | 2620                                                         | 1205                                     | UCY2V181MHD  |
|                                | 220                             | 18×46                        | 0.24          | 3180                                                         | 1300                                     | UCY2V221MHD  |
| 400<br>(2G)                    | 6.8                             | 10×16                        | 0.24          | 208.8                                                        | 140                                      | UCY2G6R8MPD  |
|                                | 10                              | 10×16                        | 0.24          | 260                                                          | 150                                      | UCY2G100MPD  |
|                                | 12                              | 10×20                        | 0.24          | 292                                                          | 175                                      | UCY2G120MPD  |
|                                | 15                              | 10×20                        | 0.24          | 340                                                          | 180                                      | UCY2G150MPD  |
|                                | 18                              | 10×25                        | 0.24          | 388                                                          | 235                                      | UCY2G180MPD  |
|                                | 22                              | 10×30.5                      | 0.24          | 452                                                          | 275                                      | UCY2G220MPD  |
|                                | 27                              | 12.5×20                      | 0.24          | 532                                                          | 360                                      | UCY2G270MHD  |
|                                | 33                              | 12.5×25                      | 0.24          | 628                                                          | 385                                      | UCY2G330MHD  |
|                                | 33                              | 16×20                        | 0.24          | 628                                                          | 450                                      | UCY2G330MHD3 |
|                                | 39                              | 12.5×30.5                    | 0.24          | 724                                                          | 465                                      | UCY2G390MHD  |
|                                | 39                              | 12.5×25                      | 0.24          | 724                                                          | 385                                      | UCY2G390MHD9 |
|                                | 47                              | 16×20                        | 0.24          | 852                                                          | 520                                      | UCY2G470MHD  |

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## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated Capacitance<br>( $\mu$ F) | Case Size<br>$\phi$ D×L (mm) | $\tan \delta$ | Leakage Current<br>( $\mu$ A)<br>(at 20°C after<br>1 minute) | Rated Ripple<br>(mArms)<br>(105°C/120Hz) | Part Number  |
|--------------------------------|---------------------------------|------------------------------|---------------|--------------------------------------------------------------|------------------------------------------|--------------|
| 400<br>(2G)                    | 47                              | 12.5×30.5                    | 0.24          | 852                                                          | 510                                      | UCY2G470MHD6 |
|                                | 47                              | 18×20                        | 0.24          | 852                                                          | 590                                      | UCY2G470MHD3 |
|                                | 56                              | 12.5×35.5                    | 0.24          | 996                                                          | 630                                      | UCY2G560MHD  |
|                                | 56                              | 16×25                        | 0.24          | 996                                                          | 585                                      | UCY2G560MHD6 |
|                                | 56                              | 18×20                        | 0.24          | 996                                                          | 600                                      | UCY2G560MHD3 |
|                                | 68                              | 12.5×40                      | 0.24          | 1188                                                         | 720                                      | UCY2G680MHD  |
|                                | 68                              | 16×25                        | 0.24          | 1188                                                         | 640                                      | UCY2G680MHD9 |
|                                | 68                              | 18×25                        | 0.24          | 1188                                                         | 735                                      | UCY2G680MHD3 |
|                                | 82                              | 16×30.5                      | 0.24          | 1412                                                         | 805                                      | UCY2G820MHD  |
|                                | 82                              | 18×25                        | 0.24          | 1412                                                         | 765                                      | UCY2G820MHD3 |
|                                | 100                             | 16×35.5                      | 0.24          | 1700                                                         | 850                                      | UCY2G101MHD  |
|                                | 100                             | 18×30.5                      | 0.24          | 1700                                                         | 875                                      | UCY2G101MHD6 |
|                                | 120                             | 18×30.5                      | 0.24          | 2020                                                         | 940                                      | UCY2G121MHD  |
|                                | 120                             | 16×40                        | 0.24          | 2020                                                         | 950                                      | UCY2G121MHD6 |
|                                | 120                             | 18×35.5                      | 0.24          | 2020                                                         | 960                                      | UCY2G121MHD3 |
|                                | 150                             | 18×40                        | 0.24          | 2500                                                         | 1030                                     | UCY2G151MHD  |
|                                | 180                             | 18×46                        | 0.24          | 2980                                                         | 1110                                     | UCY2G181MHD  |
| 420<br>(W6)                    | 6.8                             | 10×16                        | 0.24          | 214.24                                                       | 105                                      | UCYW66R8MPD  |
|                                | 10                              | 10×20                        | 0.24          | 268                                                          | 135                                      | UCYW6100MPD  |
|                                | 12                              | 10×20                        | 0.24          | 301.6                                                        | 150                                      | UCYW6120MPD  |
|                                | 15                              | 10×25                        | 0.24          | 352                                                          | 185                                      | UCYW6150MPD  |
|                                | 18                              | 10×30.5                      | 0.24          | 402.4                                                        | 215                                      | UCYW6180MPD  |
|                                | 22                              | 12.5×20                      | 0.24          | 469.6                                                        | 285                                      | UCYW6220MHD  |
|                                | 27                              | 12.5×25                      | 0.24          | 553.6                                                        | 340                                      | UCYW6270MHD  |
|                                | 33                              | 12.5×30.5                    | 0.24          | 654.4                                                        | 400                                      | UCYW6330MHD  |
|                                | 33                              | 16×20                        | 0.24          | 654.4                                                        | 385                                      | UCYW6330MHD3 |
|                                | 39                              | 12.5×30.5                    | 0.24          | 755.2                                                        | 430                                      | UCYW6390MHD  |
|                                | 47                              | 12.5×35.5                    | 0.24          | 889.6                                                        | 505                                      | UCYW6470MHD  |
|                                | 47                              | 16×25                        | 0.24          | 889.6                                                        | 500                                      | UCYW6470MHD6 |
|                                | 47                              | 18×20                        | 0.24          | 889.6                                                        | 480                                      | UCYW6470MHD3 |
|                                | 56                              | 12.5×40                      | 0.24          | 1040.8                                                       | 570                                      | UCYW6560MHD  |
|                                | 68                              | 16×30.5                      | 0.24          | 1242.4                                                       | 645                                      | UCYW6680MHD  |
|                                | 68                              | 18×25                        | 0.24          | 1242.4                                                       | 615                                      | UCYW6680MHD3 |
|                                | 82                              | 16×35.5                      | 0.24          | 1477.6                                                       | 725                                      | UCYW6820MHD  |
|                                | 82                              | 18×30.5                      | 0.24          | 1477.6                                                       | 730                                      | UCYW6820MHD6 |
|                                | 100                             | 16×40                        | 0.24          | 1780                                                         | 825                                      | UCYW6101MHD  |
|                                | 100                             | 18×35.5                      | 0.24          | 1780                                                         | 835                                      | UCYW6101MHD6 |
|                                | 120                             | 18×40                        | 0.24          | 2116                                                         | 930                                      | UCYW6121MHD  |
|                                | 120                             | 18×46                        | 0.24          | 2116                                                         | 945                                      | UCYW6121MHD6 |
| 450<br>(2W)                    | 6.8                             | 10×16                        | 0.24          | 222.4                                                        | 105                                      | UCY2W6R8MPD  |
|                                | 10                              | 10×20                        | 0.24          | 280                                                          | 135                                      | UCY2W100MPD  |
|                                | 12                              | 10×20                        | 0.24          | 316                                                          | 150                                      | UCY2W120MPD  |
|                                | 15                              | 10×25                        | 0.24          | 370                                                          | 185                                      | UCY2W150MPD  |
|                                | 18                              | 10×30.5                      | 0.24          | 424                                                          | 215                                      | UCY2W180MPD  |
|                                | 18                              | 12.5×20                      | 0.24          | 424                                                          | 255                                      | UCY2W180MHD6 |
|                                | 22                              | 12.5×25                      | 0.24          | 496                                                          | 300                                      | UCY2W220MHD  |

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If there is no size code in the part number, please add size code "1" and then add the appropriate code.

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## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated Capacitance<br>(μF) | Case Size<br>φD×L (mm) | tan δ | Leakage Current<br>(μA)<br>(at 20°C after<br>1 minute) | Rated Ripple<br>(mArms)<br>(105°C/120Hz) | Part Number  |
|--------------------------------|---------------------------|------------------------|-------|--------------------------------------------------------|------------------------------------------|--------------|
| 450<br>(2W)                    | 27                        | 12.5×25                | 0.24  | 586                                                    | 340                                      | UCY2W270MHD  |
|                                | 33                        | 12.5×30.5              | 0.24  | 694                                                    | 400                                      | UCY2W330MHD  |
|                                | 33                        | 16×20                  | 0.24  | 694                                                    | 385                                      | UCY2W330MHD3 |
|                                | 39                        | 12.5×35.5              | 0.24  | 802                                                    | 460                                      | UCY2W390MHD  |
|                                | 39                        | 18×20                  | 0.24  | 802                                                    | 440                                      | UCY2W390MHD3 |
|                                | 47                        | 12.5×40                | 0.24  | 946                                                    | 525                                      | UCY2W470MHD  |
|                                | 47                        | 16×25                  | 0.24  | 946                                                    | 500                                      | UCY2W470MHD6 |
|                                | 56                        | 16×30.5                | 0.24  | 1108                                                   | 585                                      | UCY2W560MHD  |
|                                | 56                        | 18×25                  | 0.24  | 1108                                                   | 560                                      | UCY2W560MHD3 |
|                                | 68                        | 16×35.5                | 0.24  | 1324                                                   | 660                                      | UCY2W680MHD  |
|                                | 82                        | 16×40                  | 0.24  | 1576                                                   | 750                                      | UCY2W820MHD  |
|                                | 82                        | 18×30.5                | 0.24  | 1576                                                   | 730                                      | UCY2W820MHD6 |
|                                | 100                       | 18×35.5                | 0.24  | 1900                                                   | 835                                      | UCY2W101MHD  |
|                                | 120                       | 18×40                  | 0.24  | 2260                                                   | 930                                      | UCY2W121MHD  |
|                                | 120                       | 18×46                  | 0.24  | 2260                                                   | 945                                      | UCY2W121MHD6 |
| 500<br>(2H)                    | 10                        | 12.5×20                | 0.24  | 300                                                    | 160                                      | UCY2H100MHD  |
|                                | 15                        | 12.5×25                | 0.24  | 400                                                    | 220                                      | UCY2H150MHD  |
|                                | 15                        | 16×20                  | 0.24  | 400                                                    | 220                                      | UCY2H150MHD3 |
|                                | 18                        | 12.5×30.5              | 0.24  | 460                                                    | 240                                      | UCY2H180MHD  |
|                                | 18                        | 16×20                  | 0.24  | 460                                                    | 240                                      | UCY2H180MHD3 |
|                                | 22                        | 12.5×35.5              | 0.24  | 540                                                    | 280                                      | UCY2H220MHD  |
|                                | 22                        | 16×25                  | 0.24  | 540                                                    | 280                                      | UCY2H220MHD6 |
|                                | 22                        | 18×20                  | 0.24  | 540                                                    | 280                                      | UCY2H220MHD3 |
|                                | 27                        | 12.5×40                | 0.24  | 640                                                    | 310                                      | UCY2H270MHD  |
|                                | 27                        | 16×25                  | 0.24  | 640                                                    | 310                                      | UCY2H270MHD6 |
|                                | 33                        | 16×30.5                | 0.24  | 760                                                    | 350                                      | UCY2H330MHD  |
|                                | 33                        | 18×25                  | 0.24  | 760                                                    | 350                                      | UCY2H330MHD3 |
|                                | 39                        | 16×35.5                | 0.24  | 880                                                    | 380                                      | UCY2H390MHD  |
|                                | 47                        | 16×40                  | 0.24  | 1040                                                   | 440                                      | UCY2H470MHD  |
|                                | 47                        | 18×30.5                | 0.24  | 1040                                                   | 440                                      | UCY2H470MHD6 |
|                                | 56                        | 18×35.5                | 0.24  | 1220                                                   | 480                                      | UCY2H560MHD  |
|                                | 68                        | 18×40                  | 0.24  | 1460                                                   | 525                                      | UCY2H680MHD  |

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- For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.