

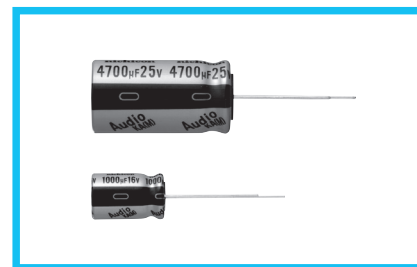
UKA

For High Grade Audio Equipment,  
Wide Temperature Range.

UKA

High Grade  
UKT

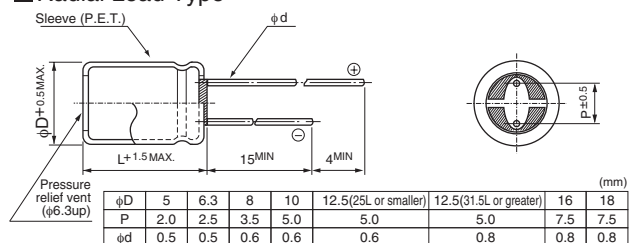
- 105°C high quality capacitors for audio equipment.
- Selected materials to create superior acoustic sound.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



## ■ Specifications

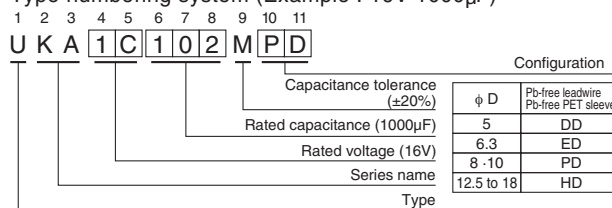
| Item                                                                         | Performance Characteristics                                                                                                                                                                                                                                        |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|--------------------|------|---------------------------------------------------|-----|-------------------------------|----|----|----|----|--------------|------|------|------|------|------|------|---------------------------------------|
| Category Temperature Range                                                   | - 55 to +105°C                                                                                                                                                                                                                                                     |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
| Rated Voltage Range                                                          | 6.3 to 50V                                                                                                                                                                                                                                                         |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
| Rated Capacitance Range                                                      | 22 to 22000 μF                                                                                                                                                                                                                                                     |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
| 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 0.03CV or 4 (μA), whichever is greater.<br>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)                                                | <table><tr><td>Rated voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tan δ (MAX.)</td><td>0.30</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.16</td><td>0.14</td></tr></table>                                  |                 |      |      |                    |      | Rated voltage (V)                                 | 6.3 | 10                            | 16 | 25 | 35 | 50 | tan δ (MAX.) | 0.30 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | Measurement frequency : 120Hz at 20°C |
|                                                                              | Rated voltage (V)                                                                                                                                                                                                                                                  | 6.3             | 10   | 16   | 25                 | 35   | 50                                                |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
|                                                                              | tan δ (MAX.)                                                                                                                                                                                                                                                       | 0.30            | 0.26 | 0.22 | 0.18               | 0.16 | 0.14                                              |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
| For capacitors with more than 1000μF, add 0.02 for every increase of 1000μF. |                                                                                                                                                                                                                                                                    |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
|                                                                              |                                                                                                                                                                                                                                                                    |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
| Stability at Low Temperature                                                 | Rated voltage (V)                                                                                                                                                                                                                                                  |                 | 6.3  | 10   | 16                 | 25   | 35                                                | 50  | Measurement frequency : 120Hz |    |    |    |    |              |      |      |      |      |      |      |                                       |
|                                                                              | Impedance ratio (MAX.)                                                                                                                                                                                                                                             | Z-25°C / Z+20°C | 5    | 4    | 3                  | 2    | 2                                                 | 2   |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
|                                                                              |                                                                                                                                                                                                                                                                    | Z-40°C / Z+20°C | 10   | 8    | 6                  | 4    | 3                                                 | 3   |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |
| 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 black color letter on pearl blue sleeve.                                                                                                                                                                                                              |                 |      |      |                    |      |                                                   |     |                               |    |    |    |    |              |      |      |      |      |      |      |                                       |

## ■ Radial Lead Type



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

## Type numbering system (Example : 16V 1000µF)



## ■ Dimensions

| Cap (µF) | Code | V           |      | 6.3         |      | 10          |      | 16          |      | 25        |      | 35        |      | 50          |      |
|----------|------|-------------|------|-------------|------|-------------|------|-------------|------|-----------|------|-----------|------|-------------|------|
|          |      |             |      | 0J          |      | 1A          |      | 1C          |      | 1E        |      | 1V        |      | 1H          |      |
| 22       | 220  | 5 × 11      | 45   | 5 × 11      | 45   | 5 × 11      | 54   | 5 × 11      | 58   | 5 × 11    | 61   | 5 × 11    | 68   | 5 × 11      | 68   |
| 33       | 330  | 5 × 11      | 55   | 5 × 11      | 58   | 5 × 11      | 65   | 5 × 11      | 68   | 5 × 11    | 75   | 5 × 11    | 90   | 5 × 11      | 90   |
| 47       | 470  | 5 × 11      | 65   | 5 × 11      | 68   | 5 × 11      | 79   | 5 × 11      | 83   | 5 × 11    | 93   | 5 × 11    | 115  | 6.3 × 11    | 115  |
| 100      | 101  | 5 × 11      | 95   | 5 × 11      | 105  | 5 × 11      | 115  | 5 × 11      | 140  | 6.3 × 11  | 150  | 6.3 × 11  | 190  | 8 × 11.5    | 190  |
| 220      | 221  | 6.3 × 11    | 160  | 6.3 × 11    | 175  | 6.3 × 11    | 190  | 6.3 × 11    | 240  | 8 × 11.5  | 260  | 8 × 11.5  | 300  | 10 × 12.5   | 300  |
| 330      | 331  | 6.3 × 11    | 195  | 8 × 11.5    | 240  | 8 × 11.5    | 265  | 8 × 11.5    | 290  | 10 × 12.5 | 350  | 10 × 12.5 | 410  | 10 × 16     | 410  |
| 470      | 471  | 8 × 11.5    | 270  | 8 × 11.5    | 280  | 8 × 11.5    | 315  | 10 × 12.5   | 380  | 10 × 16   | 460  | 10 × 16   | 530  | 12.5 × 20   | 530  |
| 1000     | 102  | 10 × 12.5   | 420  | 10 × 16     | 500  | 10 × 16     | 560  | 10 × 20     | 680  | 12.5 × 25 | 860  | 12.5 × 25 | 1040 | 12.5 × 31.5 | 1040 |
| 2200     | 222  | 10 × 20     | 710  | 12.5 × 20   | 810  | 12.5 × 20   | 920  | 12.5 × 31.5 | 1200 | 12.5 × 40 | 1260 | 12.5 × 40 | 1470 | 16 × 35.5   | 1470 |
| 3300     | 332  | 12.5 × 20   | 910  | 12.5 × 25   | 1050 | 12.5 × 31.5 | 1270 | 12.5 × 35.5 | 1400 | 16 × 35.5 | 1610 | 16 × 35.5 | 1770 | 18 × 35.5   | 1770 |
| 4700     | 472  | 12.5 × 25   | 1120 | 12.5 × 35.5 | 1300 | 12.5 × 35.5 | 1480 | 16 × 31.5   | 1710 | 18 × 35.5 | 1910 |           |      |             |      |
| 6800     | 682  | 12.5 × 35.5 | 1360 | 12.5 × 40   | 1570 | 16 × 31.5   | 1780 | 18 × 35.5   | 2040 |           |      |           |      |             |      |
| 10000    | 103  | 12.5 × 40   | 1650 | 16 × 35.5   | 1890 | 18 × 35.5   | 2060 |             |      |           |      |           |      |             |      |
| 15000    | 153  | 16 × 35.5   | 2010 | 18 × 40     | 2400 |             |      |             |      |           |      |           |      |             |      |
| 22000    | 223  | 18 × 40     | 2350 |             |      |             |      |             |      |           |      |           |      |             |      |

## ● Frequency coefficient of rated ripple current

| Cap. (µF)     | Frequency | 50Hz | 120Hz | 300Hz | 1kHz | 10kHz or more |
|---------------|-----------|------|-------|-------|------|---------------|
| 22 to 47      |           | 0.75 | 1.00  | 1.35  | 1.57 | 2.00          |
| 100 to 470    |           | 0.80 | 1.00  | 1.23  | 1.34 | 1.50          |
| 1000 to 22000 |           | 0.85 | 1.00  | 1.10  | 1.13 | 1.15          |

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

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



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Электрон  
Связь**

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