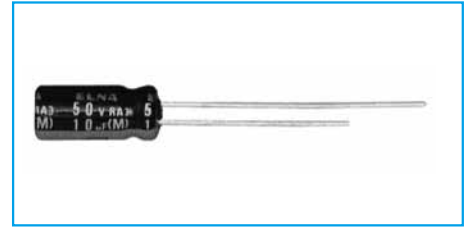
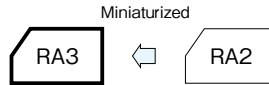


## Miniature Capacitors for Audio

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- With the same size as that for Series RE3 miniaturized standard capacitors, a high resolution sound quality grade has been realized.
- The newly developed audio use material makes clear sound a reality.
- All lead wires are copper plated steel wires.



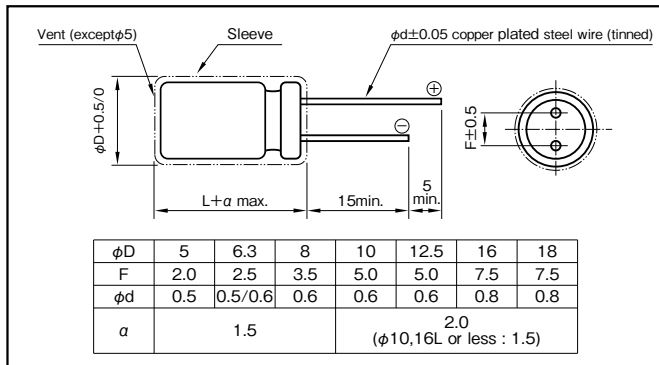
Marking color : White print on a brown sleeve

## Specifications

| Item                                                            | Performance                                                                                                                                                                                                                                                                                                                                                                      |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------|------|------|------|------|------|------|-------------------|------------|----|----|----|----|----|----|-----|-----------------|-------------------------------------|------|------|------|------|------|------|------|----------------------------------|------------------------------|--|--|--|--|--|--|--|---------------------------|---------------------------------------------|--|--|--|--|--|--|--|
| Category temperature range (°C)                                 | -40 to +85                                                                                                                                                                                                                                                                                                                                                                       |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Tolerance at rated capacitance (%)                              | ±20 (20°C,120Hz)                                                                                                                                                                                                                                                                                                                                                                 |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Leakage current (μA) (max.)                                     | 0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20°C)                                                                                                                                                                                                                                                                      |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Tangent of loss angle (tanδ)                                    | <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><td>63</td><td>100</td></tr><tr><td>tanδ (max.)</td><td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.11</td><td>0.10</td></tr></table>                                                                                                |                                     |      |      |      |      |      |      |      | Rated voltage (V) | 6.3        | 10 | 16 | 25 | 35 | 50 | 63 | 100 | tanδ (max.)     | 0.28                                | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.11 | 0.10 |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
|                                                                 | Rated voltage (V)                                                                                                                                                                                                                                                                                                                                                                | 6.3                                 | 10   | 16   | 25   | 35   | 50   | 63   | 100  |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
|                                                                 | tanδ (max.)                                                                                                                                                                                                                                                                                                                                                                      | 0.28                                | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.11 | 0.10 |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| 0.02 is added to every 1000μF increase over 1000μF (20°C,120Hz) |                                                                                                                                                                                                                                                                                                                                                                                  |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Endurance (85°C) (Applied ripple current)                       | <table><tr><td>Test time</td><td colspan="8">2000 hours</td></tr><tr><td>Leakage current</td><td colspan="8">The initial specified value or less</td></tr><tr><td>Percentage of capacitance change</td><td colspan="8">Within ±20% of initial value</td></tr><tr><td>Tangent of the loss angle</td><td colspan="8">200% or less of the initial specified value</td></tr></table> |                                     |      |      |      |      |      |      |      | Test time         | 2000 hours |    |    |    |    |    |    |     | Leakage current | The initial specified value or less |      |      |      |      |      |      |      | Percentage of capacitance change | Within ±20% of initial value |  |  |  |  |  |  |  | Tangent of the loss angle | 200% or less of the initial specified value |  |  |  |  |  |  |  |
|                                                                 | Test time                                                                                                                                                                                                                                                                                                                                                                        | 2000 hours                          |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
|                                                                 | Leakage current                                                                                                                                                                                                                                                                                                                                                                  | The initial specified value or less |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
|                                                                 | Percentage of capacitance change                                                                                                                                                                                                                                                                                                                                                 | Within ±20% of initial value        |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Tangent of the loss angle                                       | 200% or less of the initial specified value                                                                                                                                                                                                                                                                                                                                      |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Shelf life (85°C)                                               | Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1                                                                                                                                                                                                                                                      |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |
| Applicable standards                                            | JIS C5101-1, -4 (IEC 60384-1, -4)                                                                                                                                                                                                                                                                                                                                                |                                     |      |      |      |      |      |      |      |                   |            |    |    |    |    |    |    |     |                 |                                     |      |      |      |      |      |      |      |                                  |                              |  |  |  |  |  |  |  |                           |                                             |  |  |  |  |  |  |  |

## Outline Drawing

Unit : mm



## Coefficient of Frequency for Rated Ripple Current

| Rated voltage(V) | Frequency (Hz)<br>CV (μF×VV) | 50 · 60 | 120 | 1k  | 10k | 100k |
|------------------|------------------------------|---------|-----|-----|-----|------|
| 6.3 to 16        | All CV value                 | 0.8     | 1   | 1.1 | 1.2 | 1.2  |
|                  | ≤1000                        | 0.8     | 1   | 1.5 | 1.7 | 1.7  |
| 25 to 35         | 1000<                        | 0.8     | 1   | 1.2 | 1.3 | 1.3  |
|                  | ≤1000                        | 0.8     | 1   | 1.6 | 1.9 | 1.9  |
| 50 to 100        | 1000<                        | 0.8     | 1   | 1.2 | 1.3 | 1.3  |
|                  | ≤1000                        | 0.8     | 1   | 1.2 | 1.3 | 1.3  |

## Part numbering system (example : 25V100μF)

|             |   |                      |   |                          |                              |               |    |   |                         |
|-------------|---|----------------------|---|--------------------------|------------------------------|---------------|----|---|-------------------------|
| RA3         | — | 25                   | V | 101                      | M                            | F3            | #8 | — | □                       |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Capacitance tolerance symbol | Casing symbol |    |   | Taping (Forming) symbol |

## Case symbol

| Case φD×L (mm) | Casing Symbol | Case φD×L (mm) | Casing Symbol | Case φD×L (mm) | Casing Symbol | Case φD×L (mm) | Casing Symbol |
|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| 5×11           | E3            | 10×12.5        | H3            | 12.5×20        | I5            | 16×31.5        | J7            |
| 6.3×11         | F3            | 10×16          | H4            | 12.5×25        | I6            | 18×35.5        | K8            |
| 8×11.5         | G3            | 10×20          | H5            | 16×25          | J6            | —              | —             |

## Standard Ratings

| Rated capacitance (μF) | Item | 6.3               |                                 | 10                |                                 | 16                |                                 | 25                |                                 | 35                |                                 | 50                |                                 | 63                |                                 | 100               |                                 |
|------------------------|------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|
|                        |      | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) | Case<br>φD×L (mm) | Rated ripple<br>current<br>(mA) |
| 1                      |      | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | 5×11              | 21                              | —                 | —                               | 5×11              | 21                              |
| 2.2                    |      | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | 5×11              | 31                              | —                 | —                               | 5×11              | 31                              |
| 3.3                    |      | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | 5×11              | 38                              | —                 | —                               | 5×11              | 40                              |
| 4.7                    |      | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | 5×11              | 45                              | —                 | —                               | 5×11              | 50                              |
| 10                     |      | —                 | —                               | —                 | —                               | 5×11              | 50                              | 5×11              | 55                              | 5×11              | 60                              | 5×11              | 66                              | 5×11              | 70                              | 5×11              | 70                              |
| 22                     |      | —                 | —                               | —                 | —                               | 5×11              | 75                              | 5×11              | 90                              | 5×11              | 95                              | 5×11              | 100                             | 5×11              | 105                             | 6.3×11            | 115                             |
| 33                     |      | —                 | —                               | —                 | —                               | 5×11              | 110                             | 5×11              | 110                             | 5×11              | 110                             | 5×11              | 110                             | 6.3×11            | 130                             | 8×11.5            | 158                             |
| 47                     |      | —                 | —                               | —                 | —                               | 5×11              | 130                             | 5×11              | 130                             | 5×11              | 130                             | 6.3×11            | 155                             | 6.3×11            | 160                             | 8×11.5            | 188                             |
| 100                    |      | 5×11              | 130                             | 5×11              | 150                             | 5×11              | 180                             | 6.3×11            | 199                             | 6.3×11            | 214                             | 8×11.5            | 250                             | 8×11.5            | 270                             | 10×16             | 358                             |
| 220                    |      | 5×11              | 240                             | 6.3×11            | 250                             | 6.3×11            | 280                             | 8×11.5            | 349                             | 8×11.5            | 350                             | 10×12.5           | 429                             | 10×16             | 505                             | 12.5×20           | 663                             |
| 330                    |      | 6.3×11            | 300                             | 6.3×11            | 330                             | 8×11.5            | 383                             | 8×11.5            | 383                             | 10×12.5           | 542                             | 10×16             | 595                             | 10×20             | 676                             | 12.5×25           | 886                             |
| 470                    |      | 6.3×11            | 380                             | 8×11.5            | 417                             | 8×11.5            | 480                             | 10×12.5           | 545                             | 10×16             | 664                             | 12.5×20           | 887                             | 12.5×20           | 924                             | 16×25             | 1230                            |
| 1000                   |      | 8×11.5            | 580                             | 10×12.5           | 650                             | 10×16             | 791                             | 10×20             | 996                             | 12.5×20           | 1210                            | 12.5×25           | 1400                            | 16×25             | 1710                            | 18×35.5           | 2210                            |
| 2200                   |      | 10×16             | 939                             | 10×20             | 1080                            | 12.5×20           | 1350                            | 12.5×25           | 1660                            | 16×25             | 1950                            | 16×31.5           | 2340                            | 18×35.5           | 2870                            | —                 | —                               |
| 3300                   |      | 10×20             | 1230                            | 12.5×20           | 1430                            | 12.5×25           | 1690                            | 16×25             | 2030                            | 16×31.5           | 2320                            | 18×35.5           | 2810                            | —                 | —                               | —                 | —                               |
| 4700                   |      | 12.5×20           | 1710                            | 12.5×25           | 1780                            | 16×25             | 2100                            | 16×31.5           | 2650                            | 18×35.5           | 2990                            | —                 | —                               | —                 | —                               | —                 | —                               |
| 6800                   |      | 12.5×25           | 1930                            | 16×25             | 2270                            | 16×31.5           | 2480                            | 18×35.5           | 3290                            | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               |
| 10000                  |      | 16×25             | 2450                            | 16×31.5           | 2500                            | 18×35.5           | 3130                            | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               |
| 15000                  |      | 16×31.5           | 2580                            | 18×35.5           | 3100                            | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               |
| 22000                  |      | 18×35.5           | 3150                            | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               | —                 | —                               |

(Note) Rated ripple current : 85°C, 120Hz

NOTE : Design, Specifications are subject to change without notice.  
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.

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