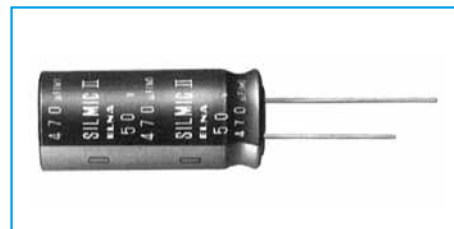


### ■ SILMIC series Silk fiber using audio purpose capacitor

- ELNA developed new raw material for the separate paper which use a silk fibers. Therefore, this capacitor can give you high grade sound for your audio design.
- Due to the silk fiber's pliability, the capacitor makes a dream of the high quality sound.

For examples ;

- To relieve the music's vibration energy.
- To decrease the peak feeling sound at high compass and rough quality sound at middle compass.
- To increase massive sound at low compass.
- For bipolar capacitors, consult with us.



Marking color : White print on a brown sleeve

### Miniature High Grade Capacitors for Audio(SILMIC II)

GREEN  
CAP

For  
Audio

- All lead wires oxygen-free copper for extremely low distortion. (Third high frequency distortion 10kHz, 0.1A, -120dB or less)
- "SILMIC II" mark on sleeve.

For higher grade For higher grade For higher grade

RFS

ROS

ROA

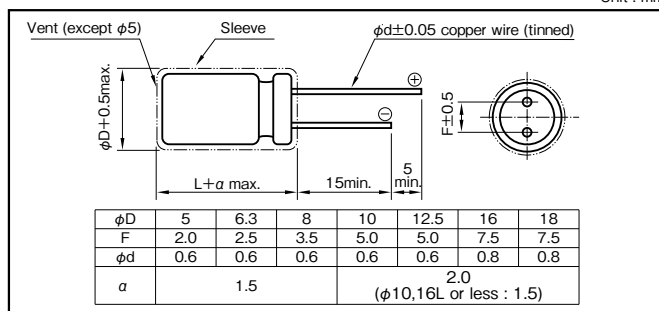
ROB

### Specifications

| Item                                         | Performance                                                                                                           |                                                         |      |      |      |      |      |      |      |  |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------|------|------|------|------|------|------|--|
| Category temperature range (°C)              | -40 to +85                                                                                                            |                                                         |      |      |      |      |      |      |      |  |
| Tolerance at rated capacitance (%)           | ±20 (20°C,120Hz)                                                                                                      |                                                         |      |      |      |      |      |      |      |  |
| Leakage current (μA)                         | Less than 0.01CV or 3 whichever is larger (after 5 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20°C) |                                                         |      |      |      |      |      |      |      |  |
| Tangent of loss angle (tanδ)                 | Rated voltage (V)                                                                                                     | 6.3                                                     | 10   | 16   | 25   | 35   | 50   | 63   | 100  |  |
|                                              | tanδ (max.)                                                                                                           | 0.20                                                    | 0.17 | 0.13 | 0.10 | 0.10 | 0.08 | 0.08 | 0.08 |  |
|                                              | 0.02 is added to every 1000μF increase over 1000μF (20°C,120Hz)                                                       |                                                         |      |      |      |      |      |      |      |  |
| Endurance (85°C)<br>(Applied ripple current) | Test time                                                                                                             | 1000 hours (with the polarity inverted every 250 hours) |      |      |      |      |      |      |      |  |
|                                              | Leakage current                                                                                                       | The initial specified value or less                     |      |      |      |      |      |      |      |  |
|                                              | Percentage of capacitance change                                                                                      | Within ±20% of initial value                            |      |      |      |      |      |      |      |  |
|                                              | Tangent of the loss angle                                                                                             | 150% or less of the initial specified value             |      |      |      |      |      |      |      |  |
| Shelf life (85°C)                            | Test time : 1000 hours. Other have same as endurance. Voltage application treatment : According to JIS C5101 -1       |                                                         |      |      |      |      |      |      |      |  |
| Applicable standards                         | JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)                                                                      |                                                         |      |      |      |      |      |      |      |  |

### Outline Drawing

Unit : mm



### Coefficient of Frequency for Rated Ripple Current

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

### Part numbering system (example : 25V100µF)

|             |   |                      |   |                          |                              |               |    |   |                         |
|-------------|---|----------------------|---|--------------------------|------------------------------|---------------|----|---|-------------------------|
| RFS         | — | 25                   | V | 101                      | M                            | H4            | #5 | — |                         |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Capacitance tolerance symbol | Casing symbol |    |   | Taping (Forming) symbol |

### Case symbol

| Case<br>φD×L (mm) | Casing<br>Symbol | Case<br>φD×L (mm) | Casing<br>Symbol | Case<br>φD×L (mm) | Casing<br>Symbol | Case<br>φD×L (mm) | Casing<br>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               | 16×35.5           | J8               |
| 8×11.5            | G3               | 10×20             | H5               | 16×25             | J6               | 18×35.5           | K8               |
|                   |                  |                   |                  | 18×40             | J9               |                   |                  |

### Standard Ratings

| Rated capacitance (µF) | 6.3               |                                  | 10                |                                  | 16                |                                  | 25                |                                  | 35                |                                  | 50                |                                  | 63                |                                  | 100               |                                  |
|------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|
|                        | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) | Case<br>φD×L (mm) | Rated ripple current<br>(mA rms) |
| 2.2                    | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | 5×11              | 20                               | 5×11              | 22                               | 5×11              | 25                               |
| 3.3                    | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | 6.3×11            | 23                               | 5×11              | 30                               | 6.3×11            | 30                               |
| 4.7                    | —                 | —                                | —                 | —                                | —                 | —                                | 5×11              | 25                               | 5×11              | 30                               | 5×11              | 25                               | 5×11              | 30                               | 8×11.5            | 40                               |
| 10                     | —                 | —                                | —                 | —                                | —                 | —                                | 5×11              | 35                               | 5×11              | 35                               | 6.3×11            | 30                               | 5×11              | 35                               | 10×12.5           | 60                               |
| 22                     | —                 | —                                | 5×11              | 50                               | 5×11              | 55                               | 6.3×11            | 60                               | 6.3×11            | 55                               | 8×11.5            | 75                               | 6.3×11            | 40                               | 10×16             | 95                               |
| 33                     | 5×11              | 55                               | 6.3×11            | 70                               | 6.3×11            | 90                               | 8×11.5            | 120                              | 10×12.5           | 140                              | 10×16             | 175                              | 10×20             | 190                              | 12.5×20           | 220                              |
| 47                     | 5×11              | 65                               | 6.3×11            | 75                               | 8×11.5            | 125                              | 8×11.5            | 140                              | 10×12.5           | 170                              | 10×16             | 210                              | 10×20             | 225                              | 12.5×25           | 285                              |
| 100                    | 8×11.5            | 135                              | 8×11.5            | 145                              | 10×12.5           | 215                              | 10×16             | 270                              | 10×20             | 295                              | 12.5×20           | 380                              | 12.5×25           | 415                              | 16×25             | 485                              |
| 220                    | 10×12.5           | 240                              | 10×16             | 260                              | 10×20             | 385                              | 12.5×20           | 505                              | 12.5×25           | 550                              | 16×25             | 720                              | 16×31.5           | 785                              | 18×40             | 930                              |
| 330                    | 10×16             | 290                              | 10×20             | 350                              | 12.5×20           | 545                              | 12.5×25           | 675                              | 16×25             | 785                              | 16×31.5           | 965                              | 16×35.5           | 1010                             | —                 | —                                |
| 470                    | 10×20             | 390                              | 12.5×20           | 455                              | 12.5×25           | 710                              | 16×25             | 940                              | 16×31.5           | 1030                             | 16×35.5           | 1210                             | 18×35.5           | 1295                             | —                 | —                                |
| 1000                   | 12.5×20           | 710                              | 16×25             | 835                              | 16×31.5           | 1315                             | 16×35.5           | 1575                             | 18×35.5           | 1690                             | 18×40             | 1985                             | —                 | —                                | —                 | —                                |
| 2200                   | —                 | —                                | 16×35.5           | 1500                             | 18×40             | 2150                             | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                |
| 3300                   | —                 | —                                | 18×40             | 1980                             | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                | —                 | —                                |

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