

## 7mm L, 105°C Use Capacitors

GREEN  
CAP

105°C  
1000hours

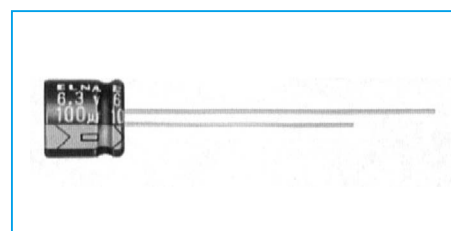
Anti-  
cleaning  
solvent

- Diameters from  $\phi 4$  to  $\phi 6.3$ mm and a height of 7mm.
- Guarantees 1000 hours at 105°C.

R2S

High temperature

RC2



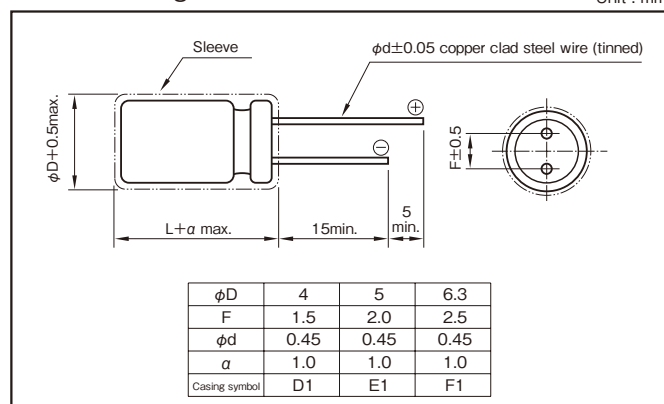
Marking color : White print on a black sleeve

## Specifications

| Item  | Performance  |   |      |      |      |      |      |
|---|--|---|------|------|------|------|------|
| Category temperature range (°C)               | -55 to +105  |   |      |      |      |      |      |
| Tolerance at rated capacitance (%)            | ±20 (20°C,120Hz)   |   |      |      |      |      |      |
| Leakage current (μA)                          | Less than 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)                  | Rated voltage (V)  | 6.3   | 10   | 16   | 25   | 35   | 50   |
|   | tanδ (max.)  | 0.22  | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 |
| Characteristics at high and low temperature   | Rated voltage (V)  | 6.3   | 10   | 16   | 25   | 35   | 50   |
|   | Impedance ratio (max.)   | Z-25°C/Z+20°C                               | 3    | 3    | 2    | 2    | 2    |
|   |  | Z-40°C/Z+20°C                               | 8    | 5    | 4    | 3    | 3    |
|   | (120Hz)  |   |      |      |      |      |      |
| Endurance (105°C)<br>(Applied ripple current) | Test time  | 1000 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 (105°C)                            | Test time : 1000 hours ; other items are the same as those for the 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

| Frequency (Hz)    | 50 · 60 | 120  | 1k   | 10k · 100k |
|-------------------|---------|------|------|------------|
| Rated voltage (V) |         |      |      |            |
| 6.3 to 16         | 0.68    | 0.72 | 0.92 | 1          |
| 25 to 35          | 0.48    | 0.63 | 0.80 | 1          |
| 50                | 0.45    | 0.50 | 0.70 | 1          |

## Part numbering system (example : 25V33μF)

|             |   |                      |   |                          |                              |               |   |
|-------------|---|----------------------|---|--------------------------|------------------------------|---------------|---|
| R2S         | — | 25                   | V | 330                      | M                            | F1            | # |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Capacitance tolerance symbol | Casing symbol |   |

## Standard Ratings

| Rated voltage (V)      | 6.3                    |                      | 10                     |                      | 16                     |                      | 25                     |                      | 35                     |                      | 50                     |                      |
|------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
|                        | Case                   | Rated ripple current | Case                   | Rated ripple current | Case                   | Rated ripple current | Case                   | Rated ripple current | Case                   | Rated ripple current | Case                   | Rated ripple current |
| Rated capacitance (μF) | $\phi D \times L$ (mm) | mArms                | $\phi D \times L$ (mm) | mArms                | $\phi D \times L$ (mm) | mArms                | $\phi D \times L$ (mm) | mArms                | $\phi D \times L$ (mm) | mArms                | $\phi D \times L$ (mm) | mArms                |
| 0.1                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 6                    |
| 0.22                   | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 8                    |
| 0.33                   | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 10                   |
| 0.47                   | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 12                   |
| 1                      | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 16                   |
| 2.2                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 25                   |
| 3.3                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 21                   | 4×7                    | 23                   | 4×7                    | 28                   |
| 4.7                    | —                      | —                    | —                      | —                    | —                      | —                    | 4×7                    | 25                   | 4×7                    | 25                   | 5×7                    | 48                   |
| 10                     | —                      | —                    | —                      | —                    | 4×7                    | 39                   | 5×7                    | 47                   | 5×7                    | 48                   | 6.3×7                  | 75                   |
| 22                     | 4×7                    | 42                   | 4×7                    | 49                   | 5×7                    | 54                   | 6.3×7                  | 87                   | 6.3×7                  | 90                   | —                      | —                    |
| 33                     | 5×7                    | 53                   | 5×7                    | 60                   | 6.3×7                  | 83                   | 6.3×7                  | 90                   | —                      | —                    | —                      | —                    |
| 47                     | 5×7                    | 64                   | 6.3×7                  | 95                   | 6.3×7                  | 95                   | —                      | —                    | —                      | —                    | —                      | —                    |
| 100                    | 6.3×7                  | 96                   | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    | —                      | —                    |

(Note) Rated ripple current : 105°C, 100kHz.

## NOTE

Design, Specifications are subject to change without notice.  
Ask factory for technical specifications before purchase and/or use.