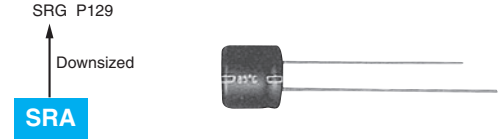


SRA Series

- 7mm height
- Endurance : 1,000 hours at 85°C
- Non solvent resistant type
- RoHS Compliant

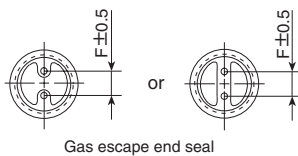
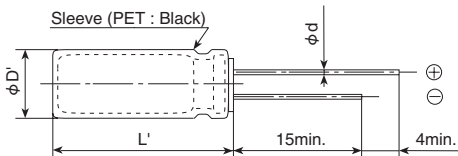


◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | |
|--|--|---------------------------------------|------|------|------|------|------|------|------|
| Category | -40 to +85°C | | | | | | | | |
| Temperature Range | -40 to +85°C | | | | | | | | |
| Rated Voltage Range | 4 to 63V _{dc} | | | | | | | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | | | | | | |
| Leakage Current | I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes) | | | | | | | | |
| Dissipation Factor (tan δ) | Rated voltage (V _{dc}) | 4V | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V |
| | tan δ (Max.) | 0.35 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 4V | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V |
| | Z(-25°C)/Z(+20°C) | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 |
| | Z(-40°C)/Z(+20°C) | 10 | 10 | 8 | 6 | 4 | 3 | 3 | 3 |
| Endurance | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 85°C. | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | |
| | D.F. (tan δ) | ≤ 200% of the initial specified value | | | | | | | |
| | Leakage current | ≤ The initial specified value | | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | |
| | D.F. (tan δ) | ≤ 200% of the initial specified value | | | | | | | |
| | Leakage current | ≤ The initial specified value | | | | | | | |

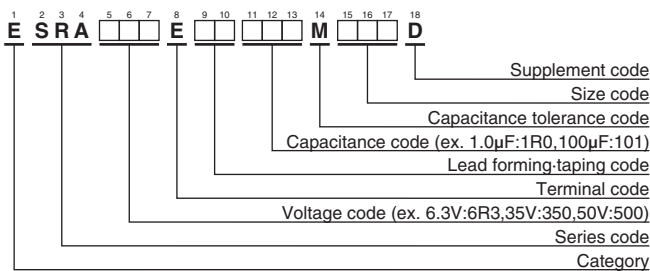
◆ DIMENSIONS [mm]

- Terminal Code : E



| φD | 4 | 5 | 6.3 | 8 |
|-----|------------|------|------|------|
| φd | 0.45 | 0.45 | 0.45 | 0.45 |
| F | 1.5 | 2.0 | 2.5 | 3.5 |
| φD' | φD+0.5max. | | | |
| L' | L+1.0max. | | | |

◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

◆ STANDARD RATINGS

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (mArms/85°C, 120Hz) | Part No. | WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (mArms/85°C, 120Hz) | Part No. | |
|-----------------------|----------|--------------------|-------|--|--------------------|-----------------------|----------|--------------------|-------|--|--------------------|--------------------|
| 4 | 33 | 4 × 7 | 0.35 | 26 | ESRA4R0E□□330MD07D | 35 | 4.7 | 4 × 7 | 0.12 | 20 | ESRA350E□□4R7MD07D | |
| | 47 | 4 × 7 | 0.35 | 34 | ESRA4R0E□□470MD07D | | 10 | 5 × 7 | 0.12 | 30 | ESRA350E□□100ME07D | |
| | 100 | 5 × 7 | 0.35 | 61 | ESRA4R0E□□101ME07D | | 22 | 6.3 × 7 | 0.12 | 47 | ESRA350E□□220MF07D | |
| | 220 | 6.3 × 7 | 0.35 | 95 | ESRA4R0E□□221MF07D | | 33 | 6.3 × 7 | 0.12 | 64 | ESRA350E□□330MF07D | |
| | 470 | 8 × 7 | 0.35 | 154 | ESRA4R0E□□471MH07D | | 47 | 8 × 7 | 0.12 | 83 | ESRA350E□□470MH07D | |
| 6.3 | 22 | 4 × 7 | 0.24 | 31 | ESRA6R3E□□220MD07D | 50 | 1.0 | 4 × 7 | 0.10 | 10 | ESRA500E□□1R0MD07D | |
| | 47 | 5 × 7 | 0.24 | 47 | ESRA6R3E□□470ME07D | | 2.2 | 4 × 7 | 0.10 | 15 | ESRA500E□□2R2MD07D | |
| | 330 | 8 × 7 | 0.24 | 156 | ESRA6R3E□□331MH07D | | 3.3 | 4 × 7 | 0.10 | 18 | ESRA500E□□3R3MD07D | |
| 10 | 33 | 5 × 7 | 0.20 | 43 | ESRA100E□□330ME07D | | 4.7 | 5 × 7 | 0.10 | 23 | ESRA500E□□4R7ME07D | |
| | 100 | 6.3 × 7 | 0.20 | 80 | ESRA100E□□101MF07D | | 10 | 6.3 × 7 | 0.10 | 34 | ESRA500E□□100MF07D | |
| | 220 | 8 × 7 | 0.20 | 140 | ESRA100E□□221MH07D | | 22 | 6.3 × 7 | 0.10 | 57 | ESRA500E□□220MF07D | |
| 16 | 10 | 4 × 7 | 0.16 | 25 | ESRA160E□□100MD07D | | 33 | 8 × 7 | 0.10 | 76 | ESRA500E□□330MH07D | |
| | 22 | 5 × 7 | 0.16 | 39 | ESRA160E□□220ME07D | | 63 | 1.0 | 4 × 7 | 0.08 | 11 | ESRA630E□□1R0MD07D |
| | 47 | 6.3 × 7 | 0.16 | 59 | ESRA160E□□470MF07D | | | 2.2 | 4 × 7 | 0.08 | 17 | ESRA630E□□2R2MD07D |
| | 100 | 6.3 × 7 | 0.16 | 97 | ESRA160E□□101MF07D | | | 3.3 | 5 × 7 | 0.08 | 21 | ESRA630E□□3R3ME07D |
| 25 | 33 | 6.3 × 7 | 0.14 | 53 | ESRA250E□□330MF07D | 4.7 | | 6.3 × 7 | 0.08 | 26 | ESRA630E□□4R7MF07D | |
| | 47 | 6.3 × 7 | 0.14 | 71 | ESRA250E□□470MF07D | 10 | | 6.3 × 7 | 0.08 | 47 | ESRA630E□□100MF07D | |

□ □ : Enter the appropriate lead forming or taping code.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.