

SRE Series

- 5mm height
- Endurance : 1,000 hours at 85°C
- Non solvent resistant type
- RoHS Compliant

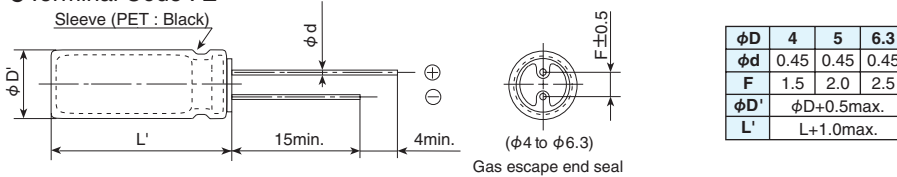


SPECIFICATIONS

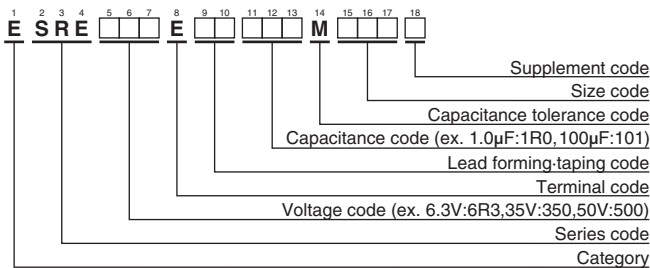
| Items | Characteristics | | | | | | | | |
|--|--|--------------------------------------|------|------|------|------|------|------|------------------|
| Category | -40 to +85°C | | | | | | | | |
| Temperature Range | | | | | | | | | |
| Rated Voltage Range | 4 to 50V _{dc} | | | | | | | | |
| Capacitance 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 | (at 20°C, 120Hz) |
| | tan δ (Max.) | 0.35 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 4V | 6.3V | 10V | 16V | 25V | 35V | 50V | (at 120Hz) |
| | Z(-25°C)/Z(+20°C) | 7 | 4 | 3 | 2 | 2 | 2 | 2 | |
| | Z(-40°C)/Z(+20°C) | 15 | 10 | 8 | 6 | 4 | 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 1,000 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



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 (mA _{rms} /85°C, 120Hz) | Part No. | WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (mA _{rms} /85°C, 120Hz) | Part No. | |
|-----------------------|----------|--------------------|-------|---|--------------------|-----------------------|----------|--------------------|-------|---|--------------------|--------------------|
| 4 | 33 | 4×5 | 0.35 | 23 | ESRE4R0E□□330MD05D | 35 | 2.2 | 4×5 | 0.12 | 8.3 | ESRE350E□□2R2MD05D | |
| | 10 | 4×5 | 0.24 | 12 | ESRE6R3E□□100MD05D | | 3.3 | 4×5 | 0.12 | 11 | ESRE350E□□3R3MD05D | |
| 6.3 | 22 | 4×5 | 0.24 | 23 | ESRE6R3E□□220MD05D | | 4.7 | 4×5 | 0.12 | 15 | ESRE350E□□4R7MD05D | |
| | 47 | 5×5 | 0.24 | 38 | ESRE6R3E□□470ME05D | | 10 | 5×5 | 0.12 | 25 | ESRE350E□□100ME05D | |
| | 100 | 6.3×5 | 0.24 | 60 | ESRE6R3E□□101MF05D | | 22 | 6.3×5 | 0.12 | 40 | ESRE350E□□220MF05D | |
| 10 | 33 | 5×5 | 0.20 | 35 | ESRE100E□□330ME05D | | 50 | 1.0 | 4×5 | 0.10 | 6.2 | ESRE500E□□1R0MD05D |
| | 4.7 | 4×5 | 0.16 | 10 | ESRE160E□□4R7MD05D | | | 2.2 | 4×5 | 0.10 | 10 | ESRE500E□□2R2MD05D |
| 16 | 10 | 4×5 | 0.16 | 17 | ESRE160E□□100MD05D | | | 3.3 | 4×5 | 0.10 | 14 | ESRE500E□□3R3MD05D |
| | 22 | 5×5 | 0.16 | 32 | ESRE160E□□220ME05D | | | 4.7 | 5×5 | 0.10 | 19 | ESRE500E□□4R7ME05D |
| | 47 | 6.3×5 | 0.16 | 50 | ESRE160E□□470MF05D | | | 10 | 6.3×5 | 0.10 | 29 | ESRE500E□□100MF05D |
| 25 | 3.3 | 4×5 | 0.14 | 9.3 | ESRE250E□□3R3MD05D | | | | | | | |
| | 4.7 | 4×5 | 0.14 | 12 | ESRE250E□□4R7MD05D | | | | | | | |
| | 33 | 6.3×5 | 0.14 | 45 | ESRE250E□□330MF05D | | | | | | | |

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

Mouser Electronics

Authorized Distributor

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[ESRE250ELL330MF05D](#) [BSRE160ETC220MF05D](#)