ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon



Snap-in Terminal Type

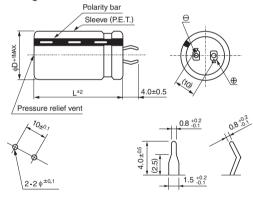
- Excellent in voltage holding property.
- Suitable for quick charge and discharge.
- Wide temperature range (- 25°C to + 60°C).
- Compliant to the RoHS directive (2011/65/EU).



Specifications

| Item | Performance Characteristics | | | | | | | | |
|------------------------------|---|---------------------------|---|--|--|--|--|--|--|
| Category Temperature Range | - 25 to +60°C | | | | | | | | |
| Rated Voltage Range | 2.5V | | | | | | | | |
| Rated Capacitance Range | 56 to 200F See Note | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C) | | | | | | | | |
| Stability at Low Temperature | Capacitance (- 25°C) / Capacitance (+20°C) ×100 ≥ 70% ESR (- 25°C) / ESR (+20°C) ≤ 7 | | | | | | | | |
| ESR, DCR* | Refer to the table below (20°C). *DC internal resistance | | | | | | | | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 60°C. | Capacitance change ESR | Within ±30% of the initial capacitance value 300% or less than the initial specified value | | | | | | |
| Shelf Life | The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 2000 hours at 60°C. | Capacitance change ESR | Within ±30% of the initial capacitance value 300% or less than the initial specified value | | | | | | |
| Humidity Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH. | Capacitance change ESR | Within ±30% of the initial capacitance value 300% or less than the initial specified value | | | | | | |
| Marking | Printed with white color letter on black sleeve. | | | | | | | | |

Drawing



(PC board hole dimensions)

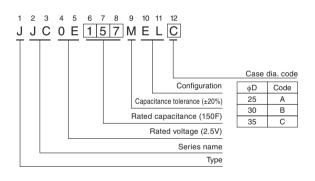
(Terminal dimensions)

Dimensions

| Rated Voltage (code) | Cap. (F) | Cap. code | ESR(mΩ) (at 1kHz) | DCR [*] Typical (mΩ) | Case size $\phi D \times L$ (mm) | | |
|------------------------------|-------------|--------------|-----------------------|-------------------------------------|----------------------------------|----------|----------------|
| | | | | | φ25 (A) | φ 30 (B) | φ 35 (C) |
| 2.5V (0E) | 56 | 566 | 70 | 50 | 25×40 | 30 × 30 | |
| | 68 | 686 | 60 | 45 | | | 35 × 30 |
| | 82 | 826 | 60 | 35 | 25×50 | 30×40 | |
| | 100 | 107 | 50 | 30 | | | 35 × 35 |
| | 120 | 127 | 50 | 25 | | 30 × 50 | 35×40 |
| | 150 | 157 | 40 | 22 | | | 35 × 50 |
| | 200 | 207 | 30 | 16 | | | 35×50 |

* The listed DCR value is typical and therefore not a guaranteed value.

Type numbering system (Example : 2.5V 150F)



Note :

The capacitance calculated from discharge time ($\Delta T)$ with constant current (i) after 30minuite charge with rated voltage (2.5V).

The discharge current (i) is 0.01 × rated capacitance (F). The discharge time (Δ T) measured between 2V and 1V with constant current.

The capacitance calculated bellow.

Capacitance (F) = $i \times \Delta T$

