

ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon



Screw Terminal Type, High Power Density Type

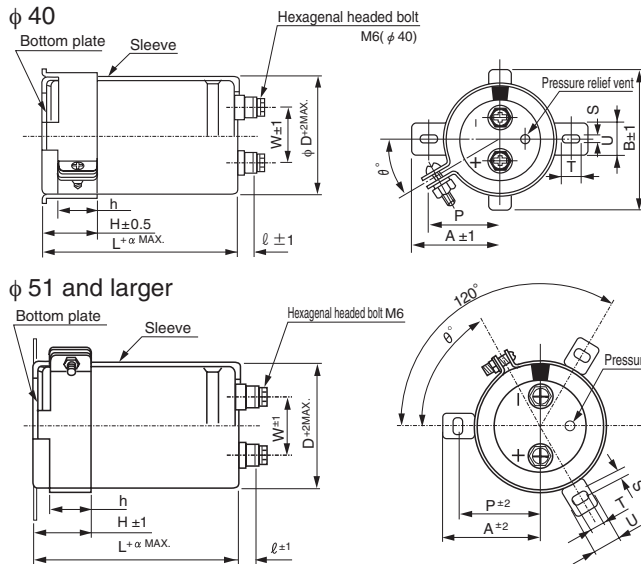
- High power density.
- Rapid charge-discharge.
- Suitable for regeneration and UPS applications.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

| Item | Performance Characteristics | | |
|------------------------------|---|--------------------|---|
| Category Temperature Range | - 25 to + 60°C | | |
| Rated Voltage Range | 2.5V | | |
| Rated Capacitance Range | 700 to 2600F See Note | | |
| Capacitance Tolerance | ± 20% (20°C) | | |
| Leakage Current | 0.5C (mA) [C : Rated Capacitance (F)] (After 30 minutes' application of rated voltage : 2.5V) | | |
| Stability at Low Temperature | Capacitance (- 25°C) / Capacitance (+20°C) ×100 ≥ 70% DCR (-25°C) / DCR (+20°C) ≤ 7 | | |
| 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 | Within ±30% of the initial capacitance value |
| | | DCR | 300% or less than the initial value |
| | | Leakage current | Less than or equal to 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 | Within ±30% of the initial capacitance value |
| | | DCR | 300% or less than the initial value |
| | | Leakage current | Less than or equal to the initial specified value |
| Marking | Printed with white color letter on black sleeve. | | |

Drawing



Type numbering system (Example : 2.5V 700F)

| | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| J | J | L | 0 | E | 7 | 0 | 7 | M | S | E | D | | |
| Mounting bracket | | | | | | | | | | | | | |
| Case dia. code(φ40) | | | | | | | | | | | | | |
| Configuration ※ | | | | | | | | | | | | | |
| Capacitance tolerance (±20%) | | | | | | | | | | | | | |
| Rated capacitance (700F) | | | | | | | | | | | | | |
| Rated voltage (2.5V) | | | | | | | | | | | | | |
| Series name | | | | | | | | | | | | | |
| Type | | | | | | | | | | | | | |
| ※ Configuration | | | | | | | | | | | | | |
| Cr (III) Plating (RoHS compliant) | | | | | | | | | | | | | |
| SE | | | | | | | | | | | | | |
| Note : | | | | | | | | | | | | | |
| The capacitance calculated from | | | | | | | | | | | | | |

Note :

The capacitance calculated from discharge time (ΔT) with constant current (i) after 30minute charge with rated voltage (2.5V).
 The discharge current (i) is 0.01 × rated capacitance (F).
 The discharge time (ΔT) measured between 2V and 1V with constant current.
 The capacitance calculated below.
 Capacitance (F) = i × ΔT

Dimensions

| Rated Voltage (Code) | Cap. (F) | Cap. code | DCR※ Typical (mΩ) | Case size φD × L (mm) | | Ref. Weight (g) |
|----------------------|----------|-----------|-------------------|-----------------------|-----|-----------------|
| | | | | φ D | L | |
| 2.5V (0E) | 700 | 707 | 3.5 | 40 | 105 | 210 |
| | 850 | 857 | 2.5 | | 135 | 250 |
| | 1500 | 158 | 1.8 | 51 | 135 | 450 |
| | 1700 | 178 | 1.7 | | 142 | 500 |
| | 2600 | 268 | 1.3 | 63.5 | 150 | 800 |

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

- Dimensions of terminal pitch(W) and length(ℓ) and Normal dia. of bolt (mm)

| φ D | W | ℓ | α | Nominal of bolt |
|------|------|----|---|-----------------|
| 40 | 18.8 | 9 | 3 | M6 |
| 51 | 26.0 | 10 | 3 | M6 |
| 63.5 | 28.6 | 10 | 3 | M6 |

Dimensions of mounting bracket (mm)

| Leg shape | 3-Legs | | | 2-Legs | | |
|-----------|--------|------|-----|--------|------|--|
| | 51 | 63.5 | 40 | 51 | 63.5 | |
| P | 32.5 | 38.1 | 27 | 33.2 | 40.5 | |
| A | 38.5 | 43 | 32 | 40 | 46.5 | |
| B | — | — | 48 | — | — | |
| T | 7.5 | 8.0 | 7.0 | 6.0 | 7.0 | |
| S | 5.0 | 5.0 | 3.5 | 4.5 | 4.5 | |
| U | 12 | 14 | 10 | 14 | 14 | |
| θ° | 60 | 60 | 45 | 30 | 30 | |
| H | 20 | 25 | 17 | 25 | 35 | |
| h | 15 | 20 | 12 | 15 | 20 | |

Note) The brackets will be supplied in the separate box.