



## CBEE

### FEATURES:

- Tantalum case, Hermetically Sealed, Cylindrical, Radial-lead, Heteropolarity, with screws, convenient to fix.
- Commingled by Electrolytic Tantalum Capacitor and Electrochemical Capacitor, Small size, Super Capacitance
- Stable in Electrical Performances, High Reliability, Long life-span, Maximum in the Density of Capacitance and Energy, Nominal Capacitance is higher than CBEE series
- Built-in as battery in Energy-converted-circuit & Power-pulsed-circuit, functioned as filtering, storage energy, time-delay circuit.

## SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Operating Temperature | -55°C to +125°C (to +125°C, with rated voltage derating) |
| Storage Temperature   | -62°C ~ +130°C   |
| Capacitance Tolerance | Q: (-10%~+30%), K: (±10%), M: (±20%)                     |

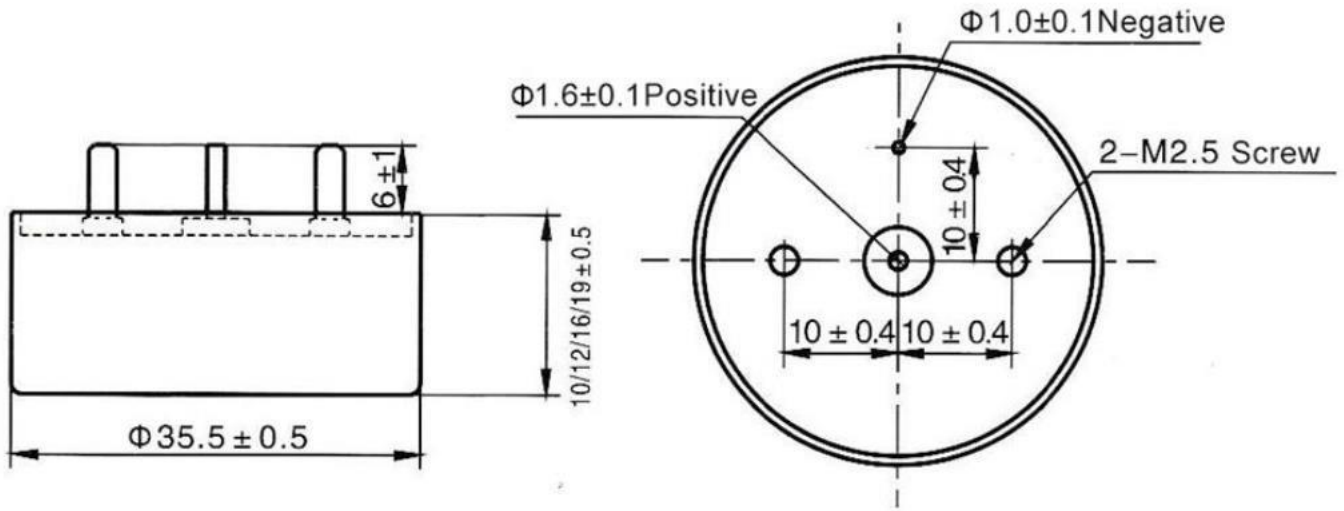


### Electrical Characteristics

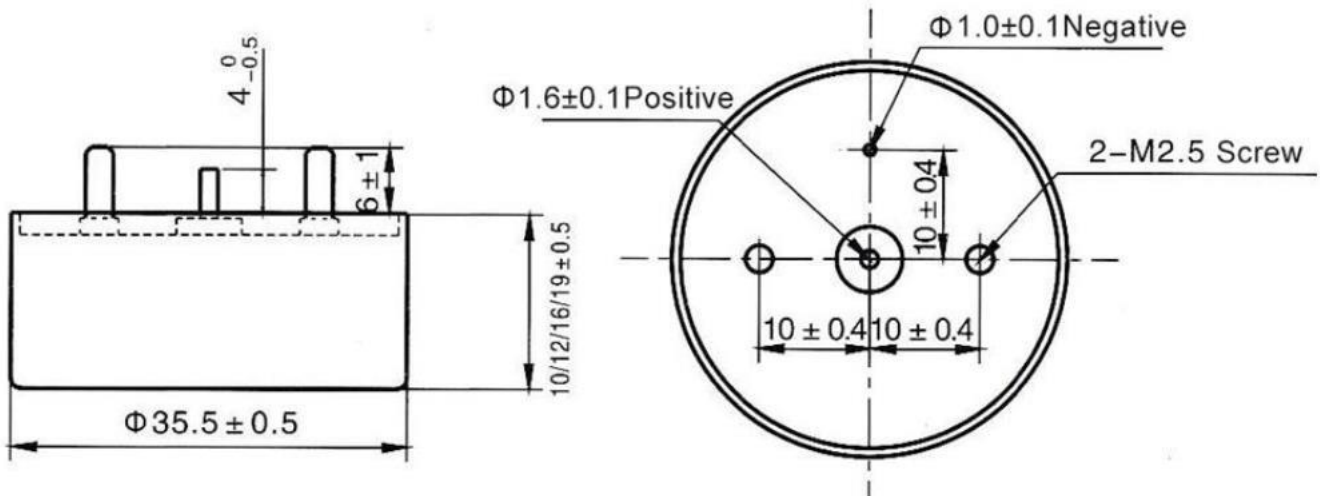
| Rated Voltage (V) | Category Voltage (V) | Surge Voltage (V) | Cap. (µF) | tgδ (%) | ESR (Ω) 1kHz | DCL (µA) |             | Impedance at (Ω) 100Hz | Capacitance Change at (%) |       |         | Dimensions |
|-------------------|----------------------|-------------------|-----------|---------|--------------|----------|-------------|------------------------|---------------------------|-------|---------|------------|
|                   |                      |                   |           |         |              | 25°C     | 85°C, 125°C |                        | -55°C                     | -55°C | +85°C   | DxH (mm)   |
| 10 1A             | 6                    | 11                | 100000    | 180     | 0.035        | 300      | 1800        | 1                      | -80                       | +160  | 35.5x12 |            |
|                   |                      |                   | 150000    |         | 0.025        |          |             |                        |                           |       | 35.5x16 |            |
| 16 1C             | 9.5                  | 17.6              | 60000     | 165     | 0.035        | 300      | 1800        | 1                      | -80                       | +160  | 35.5x12 |            |
|                   |                      |                   | 90000     |         | 0.025        |          |             |                        |                           |       | 35.5x16 |            |
| 25 1E             | 15                   | 27.5              | 36000     | 130     | 0.04         | 300      | 1800        | 1                      | -75                       | +160  | 35.5x12 |            |
|                   |                      |                   | 54000     |         | 0.035        |          |             |                        |                           |       | 35.5x16 |            |
| 35 1V             | 20                   | 38.5              | 24000     | 95      | 0.04         | 300      | 1800        | 1                      | -70                       | +160  | 35.5x12 |            |
|                   |                      |                   | 36000     |         | 0.035        |          |             |                        |                           |       | 35.5x16 |            |
| 50 1H             | 30                   | 55                | 11000     | 65      | 0.1          | 300      | 2400        | 1.2                    | -60                       | +120  | 35.5x10 |            |
|                   |                      |                   | 12000     | 65      | 0.1          | 300      |             |                        |                           |       | 35.5x12 |            |
|                   |                      |                   | 16000     | 70      | 0.04         | 400      |             |                        |                           |       | 35.5x12 |            |
|                   |                      |                   | 18000     | 70      | 0.04         | 400      |             |                        |                           |       | 35.5x12 |            |
|                   |                      |                   | 24000     | 70      | 0.035        | 400      |             |                        |                           |       | 35.5x16 |            |
| 63 1J             | 38                   | 70                | 8000      | 50      | 0.04         | 400      | 2400        | 1.4                    | -45                       | +90   | 35.5x12 |            |
|                   |                      |                   | 12000     |         | 0.035        |          |             |                        |                           |       | 35.5x16 |            |
| 80 1K             | 48                   | 88                | 5600      | 40      | 0.06         | 500      | 3000        | 1.6                    | -40                       | +90   | 35.5x12 |            |
|                   |                      |                   | 8200      |         | 0.04         |          |             |                        |                           |       | 35.5x16 |            |
| 100 2A            | 60                   | 110               | 2400      | 35      | 0.08         | 500      | 3000        | 1.8                    | -30                       | +80   | 35.5x12 |            |
|                   |                      |                   | 3800      |         | 0.05         |          |             |                        |                           |       | 35.5x12 |            |
|                   |                      |                   | 3600      |         | 0.05         |          |             |                        |                           |       | 35.5x16 |            |
|                   |                      |                   | 5700      |         | 0.05         |          |             |                        |                           |       | 35.5x16 |            |
| 110 2F            | 66                   | 121               | 1200      | 35      | 0.08         | 500      | 3000        | 2                      | -25                       | +60   | 35.5x12 |            |
|                   |                      |                   | 1800      |         | 0.075        |          |             |                        |                           |       | 35.5x16 |            |
|                   |                      |                   | 3000      |         | 0.075        |          |             |                        |                           |       | 35.5x16 |            |
|                   |                      |                   | 4500      |         | 0.075        |          |             |                        |                           |       | 35.5x16 |            |
| 125 2Q            | 75                   | 138               | 1100      | 30      | 0.08         | 500      | 3000        | 2.4                    | -25                       | +50   | 35.5x12 |            |
|                   |                      |                   | 1600      |         | 0.075        |          |             | 2.4                    | -25                       | +50   | 35.5x16 |            |
|                   |                      |                   | 2200      |         | 0.075        |          |             | 2.4                    | -25                       | +50   | 35.5x12 |            |
|                   |                      |                   | 3300      |         | 0.05         |          |             | 2.4                    | -25                       | +50   | 35.5x16 |            |
|                   |                      |                   | 3300      |         | 0.05         |          |             | 2.2                    | -20                       | +45   | 35.5x19 |            |

Dimensions (unit: mm)

Φ35.5x10/12/16/19 Layout (A Type)



Φ35.5x10/12/16/19 Layout (B Type)



Note:

1. Please do not use multimeter through the measuring procedures (may cause irreversible damage and lead to discard).
2. Capacitance and DF measured at 100Hz,  $U_+ = 2.20^{0}_{-1.0}$ V,  $U_- = 1.0^{0}_{-0.5}$ V Test only applied in series equivalent circuit.
3. Voltage derating is applied at +125°C. (The DCL parameter should be read after 5 minutes when it connected to the circuit).
4. Special size and demand could consult with us.

PART NUMBER EXAMPLE

