

Gold Capacitors | Ultra Capacitors

CEEB SERIES



■ Features

- Higher voltage
- Higher energy density
- RoHS compliant
- More safe than LiB
- Energy regeneration
- Vehicle and rail transport



Items	Characteristics			
Usable Cell Voltage Range	3.8 ~ 2.2 V			
Operating Temperature Range	-30 ~ +60 °C			
Surge Voltage	4.0 V			
Capacitance Range	1000 ~ 5000 F			
Capacitance Tolerance (25°C)	-10 ~ +10%			
Temperature Characteristics	The specifications shall be met at category temperature range from -30°C to 60°C	Capacitance range	Within 30% of the initial value	
		ESR	Less than 4 times of the initial specified value	
High Temperature Loaded	The specifications shall be met after rated voltage applied at 60°C for 1000 hours	Capacitance range	Within 20% of the initial value	
		ESR	Less than 2 times of the initial specified value	
High Temperature Storage	The specifications shall be met after storage at 60°C for 1000 hours	Capacitance range	Within 20% of the initial value	
		ESR	Less than 2 times of the initial specified value	
Cycle Life	The specifications shall be met after 500,000 cycles at 25 °C , cycle of charge/discharge from 3.8V to 2.2V	Capacitance range	Within 30% of the initial value	
		ESR	Less than 2 times of the initial specified value	

Dimensions

mm

The image shows two technical drawings of capacitors, labeled 'B type' and 'A type', and a table of their dimensions.

B type: A rectangular capacitor with a central rectangular area labeled 'T=I'. Dimensions are indicated as follows:

- A:** Total width
- B:** Total height
- G:** Distance from the top edge to the center of the top terminal.
- ØH:** Diameter of the top terminal.
- C:** Distance from the center of the top terminal to the center of the bottom terminal.
- D:** Distance from the center of the bottom terminal to the bottom edge.
- E:** Distance from the bottom edge to the center of the bottom terminal.
- F:** Distance from the left edge to the center of the bottom terminal.

A type: A rectangular capacitor with a central rectangular area labeled 'T=I'. Dimensions are indicated as follows:

- A:** Total width
- B:** Total height
- G:** Distance from the top edge to the center of the top terminal.
- ØH:** Diameter of the top terminal.
- C:** Distance from the center of the top terminal to the center of the bottom terminal.
- D:** Distance from the center of the bottom terminal to the right edge.
- E:** Distance from the right edge to the center of the bottom terminal.
- F:** Distance from the center of the bottom terminal to the right edge.

Type	A	B	C	D	E	F	G	H
A	153	136	122	55	33.5	13.5	8	5.5
B	153	136	82	35	23.5	13.5	8	5.5

Standard Ratings for CEEB Series

Usable Cell Voltage Range	Static Capacitance 25°C	Impedance		Self Discharge (72hrs)	Size		Weight	P/N
		ESRDC	ESRAC (1KHz)		Type	CxAt (mm)		
(V)	(F)	(mΩ)	(mΩ)				(g)	
3.8	1000	5.0	2.5	≥3.7	B	82x136x11	120	CEEB3R8107M
	2000	3.0	1.5	≥3.7	A	122x136x12	220	CEEB3R8207M
	3000	2.0	1.0	≥3.7	A	122x136x18	330	CEEB3R8307M
	5000	5.0	2.5	≥3.7	A	122x136x21	370	CEEB3R8507M