

Electric Double Layer Capacitor (Stacked Coin Type)



Electric double layer supercapacitors offer high capacitance value in a thru hole stacked coin type package. Primarily designed for integrated circuit voltage backup, the capacitors can also be used to deliver the initial power from batteries.

Feature

- Endurance: +70 °C 1000h
- Category temperature range: -40 °C to +70 °C
- High discharge current
- RoHS compliant

Recommended applications

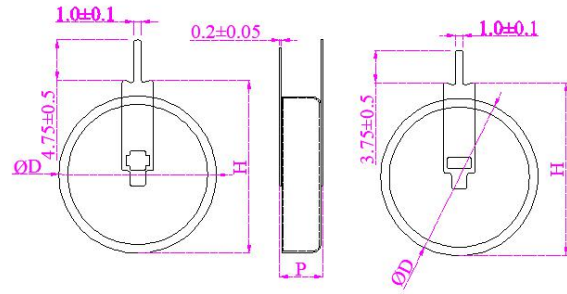
Memory back-up for video and audio equipment, cameras, telephones, printers, data terminals, rice cookers and intelligent remote controls.

Specification

Category temp. range	-40 °C to +70 °C	
Maximum operating voltage	5.5 V.DC	
Capacitance	1F	
Internal resistance	≤20Ω	
Dimension	20.5*21.5*5mm	
Weight	About 4.5g	
Characteristics at low temperature	Capacitance change	±30 % of initial measured value at +20 °C (at -40 °C)
	Internal resistance	< 7 times of initial measured value at +20 °C (at -40 °C)
Endurance	After 1000 hours application of 5.5 V.DC at +70 °C, the capacitor shall meet the following limits.	
	Capacitance change	±30 % of initial measured value
	Internal resistance	< 4 times of initial specified value
Shelf life	After 1000 hours storage at +70 °C without load, the capacitor shall meet the specified limits for Endurance.	



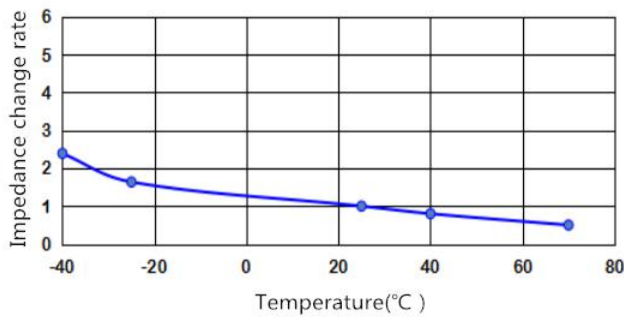
Dimension



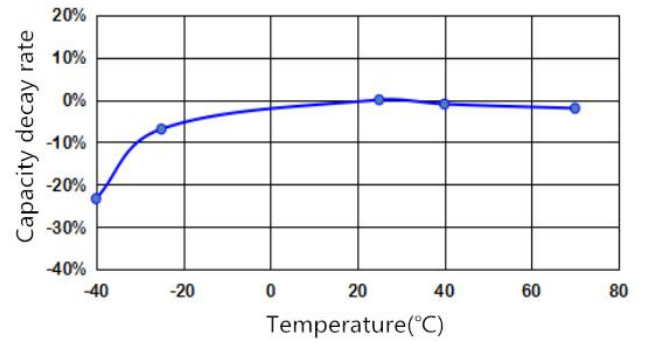
Dimension mm	Diameter ϕD	Height H	Pin distance P
	20 \pm 0.5	21 \pm 0.5	5 \pm 0.5

Performance

Characteristics in different temperature f=1KHZ

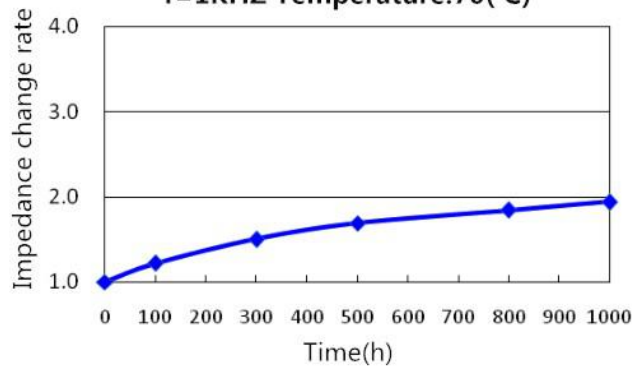


Characteristics in different temperature

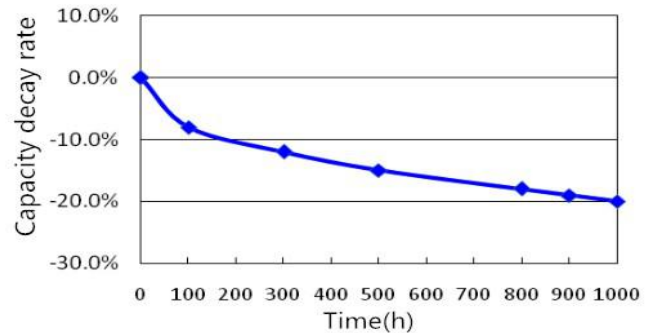


Endurance

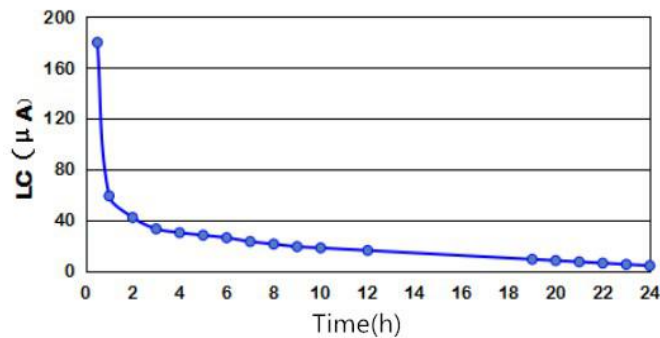
f=1KHZ Temperature:70(°C)



Endurance



Leakage current



Warning:

- The initial state of electric double layer capacitor (coin type) is not divided into positive and negative. Do not use it for a long time after using positive and negative electrodes.
- Do not use with high-current charging
- Do not burn or place in the water