

# Super small capacitor





## Overview

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What is a supercapacitor?

A supercapacitor, also known as an ultracapacitor or electric double-layer capacitor (EDLC), is a high-capacity electrochemical capacitor with capacitance values much higher than other capacitors (but lower voltage limits) that bridges the gap between electrolytic capacitors and rechargeable batteries.

What is the thinnest supercapacitor?

World's Thinnest Supercapacitors: The SCPA model measures down to just 0.4 mm in thickness, making it the thinnest supercapacitor available today. High Power Density: Designed to deliver rapid energy discharge for high-load applications. Low Self-Discharge: Ensures long-term energy retention and efficiency.

What are the characteristics of a super capacitor?

Super capacitors have several distinguishing characteristics: (1) High power density, which can reach up to  $10^2$ – $10^4$  kW/kg, significantly higher than a battery's power density. (2) Long cycle life.

Do super capacitors have a high voltage?

However, super capacitors have very small voltage ratings, such as 2.5v, 2.7v and 5.5v (Some common values). This makes things difficult, as in order to make our capacitors capable of charging up to a higher voltage, we need to place them in series, which brings a bunch of other variables into play.



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[Superthin Supercapacitors , Elektor Magazine](#)

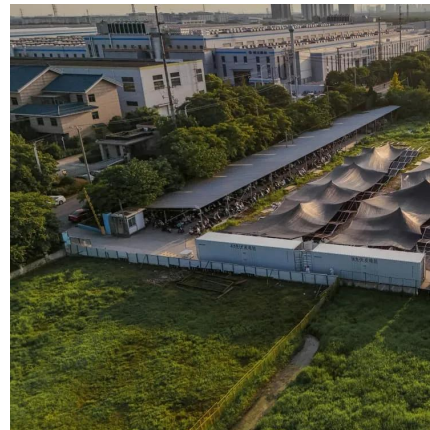
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Murata Debuts Super Small (0.16mm x 0.08mm) Multilayer Ceramic Capacitor The new capacitor represents a volume ratio that is approximately 75% lower than the existing smallest product.

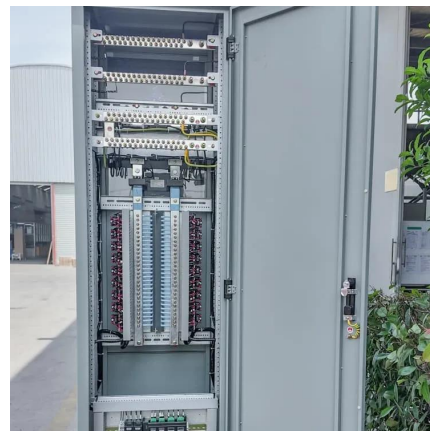
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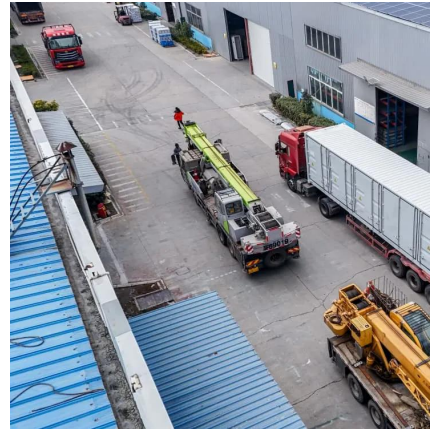


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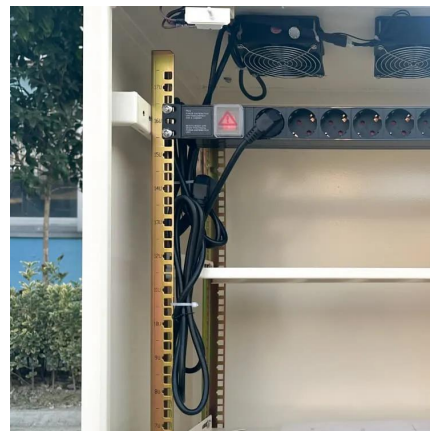
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