

## The World's First Ultra-Thin Super Capacitor

# Supercaps: Superthin, Superlight, Superjob

Imagine increasing the duration of a battery's charge upto 50%—and the battery's usable life by double. With the revolutionary new ultra-thin, ultra-light, low-ESR Supercaps, you can have it now. In addition, the bendable shell gives you design options unavailable with hard-case supercapacitors, and you can readily achieve loads exceeding 1000 milliamps per square inch. Supercaps are also easily configurable in series or in parallel, can be used in conjunction with batteries, or can be used as a solo power source when continuous running is not required.

### What's the difference between Supercaps and the competition?

- **Better energy density ratio:** Supercaps provide 15 kilowatts per liter or 18.25 joules per square inch.
- **Self-discharge voltage characteristics:** Supercaps can double the running time between charges and offer an ESR (DC) of 70 mΩ on the 5F, and 20 mΩ on the 25F.
- **Weight-to-energy ratio:** The thin, flexible 5F Supercap weighs 2.5 g and can be stacked for increased power boost. Competitive 5F units weigh 4.0 g or more and generally don't fit into portable electronics devices without product redesign.
- **Energy harvesting:** Supercaps support energy harvesting from motion, light, or other sources, enabling an entire sensing system to be wireless and maintenance-free.
- **Custom built** to your space requirements.

## Product Data

	Mini	1 inch	5 F	10 F	25 F	250 F	1000 F
Dimension	8 mm x 10 mm x 25 mils	1" x 1" x 25 mils	2.5" x 2.75" x 23 mils	2.5" x 2.75" x 40 mils	4.375" x 6.5" x 23 mils	5.5" x 7.0" x 77 mils	6.5" x 8.0" x 0.4"
Weight*	80 mg	0.5 g	2.5 g	4 g	16 g	55 g	340 g
Shape	Rectangular	Rectangular & Circular	Rectangular, Circular, Oval, Cross & L-shape	Rectangular, Circular, Oval, Cross & L-shape	Rectangular	Rectangular	Rectangular
V <sub>max</sub>	2.7 V	2.7 V	2.7 V	2.7 V	2.7 V	2.7 V	2.7 V
I <sub>max</sub>	100 mA	300 mA	5 A	5 A	25 A	100 A	300 A
Capacitance	100 mF	300 mF	5 F	10 F	25 F	250 F	1000 F
ESR			70 mΩ	50 mΩ	20 mΩ	10 mΩ	10 mΩ

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