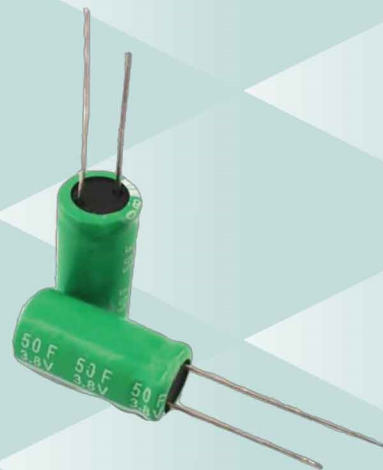




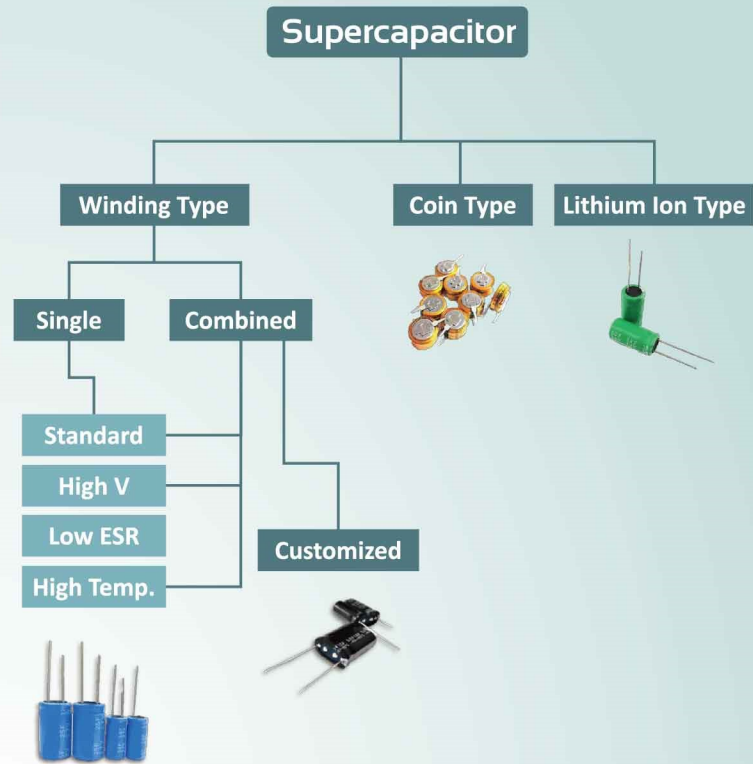
Supercapacitor



www.viking.com.tw

Supercapacitor- SC Series

Voltage	2.7V-6V
Shape Type	C: Coin & C Type
	H: Coin & H Type
	V: Coin & V Type
	M: Lithium Ion Type
	L: Cylindrical & Radial Type
	S: Cylindrical & Snap in Type
	F: Cylindrical & Four tab Solderable Type
Z: Combined Type	
Tolerance	±20%, +80/-20%, +30%-10%
Capacitance	0.1F~100F
Series	: Standard
	LR: Low ESR
	V: High Voltage
	H: High Temperature

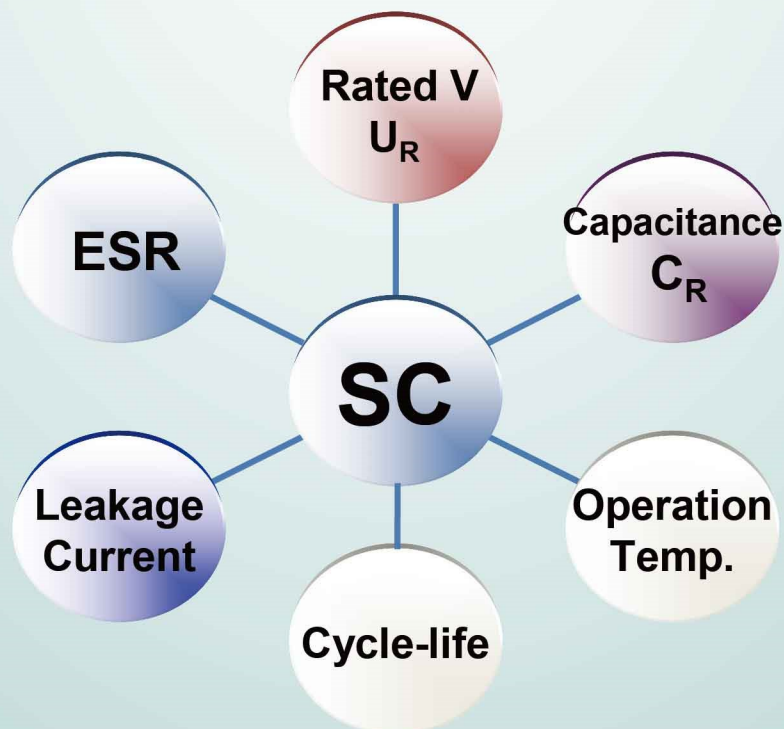


Applications:

Automotive, Industrial Control, Consumer, Medical, Telecom, Home Automation

Main parameters for Supercapacitor

In order to improve the reliability of the customer's final product, a certain margin should be reserved for the rated voltage and operating temperature when selecting the supercapacitor.



Cylindrical Type-Standard	Capacitance range	0.5F~60F
	Rated voltage	2.7V
	Temperature	-40°C~+70°C
	Features	Low leakage current, Long cycle life



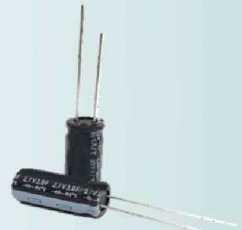
Cylindrical Type-Low ESR	Capacitance range	0.5F~10F
	Rated voltage	2.7V
	Temperature	-40°C~+70°C
	Features	Ultra-low ESR, Long cycle life, High reliability



Cylindrical Type-Voltage	Capacitance range	1F~100F
	Rated voltage	3V
	Temperature	-40°C~+70°C
	Features	High rated voltage 3V, Low leakage current, Long cycle life



Cylindrical Type-Temperature	Capacitance range	0.5F~25F
	Rated voltage	2.7V
	Temperature	-40°C~+85°C
	Features	High temperature tolerance, Long cycle life



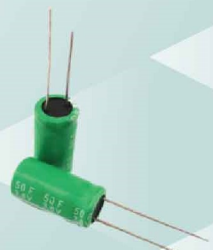
Standard combined	Capacitance range	0.22F~25F
	Rated voltage	5.5V
	Temperature	-40°C~+70°C

High voltage combined	Capacitance range	0.5F~5F
	Rated voltage	6V
	Temperature	-40°C~+70°C



High temperature combined	Capacitance range	0.47F~25F
	Rated voltage	5.5V
	Temperature	-40°C~+85°C

Lithium Ion Type	Capacitance range	20F~120F
	Rated voltage	3.8V
	Temperature	-25°C~+65°C
	Features	High energy density, Extra low leakage current



Coin Type	Capacitance range	0.1F~1.5F
	Rated voltage	5.5V
	Temperature	-25°C~+70°C
	Features	Low leakage current, Suitable for keeping the chip data, Long life



Coin Type High Temp	Capacitance range	0.1F~1.5F
	Rated voltage	3.6V, 5.5V
	Temperature	-40°C~+85°C
	Features	Low leakage current, Suitable for keeping the chip data, Long life

Field of Usage	Application	Recommendation Spec.
Automotive	Dashcam, audio, car charging, mobile phone, alarm, energy storage components	5.5V : 1.0F 、 1.5F 、 2.5F 、 3.5F
		2.7V : 3.0F 、 5.0F 、 6.0F
Industrial Control	Concentrator, converter, material sorting machine, electrical control box	2.7V/3.0V : 3.3F 、 5F 、 7F 、 10F 、 15F 、 25F
Consumer Electronic	Bluetooth speaker, recorder , portable tools, toys, timer, Bluetooth probe thermometer	2.7V : 2F 、 3.3F 、 5F 、 10F
		3.8V : 10F
		5.5V : 0.22F 、 0.47F 、 1.0F 、 1.5F 、 2.5F 、 5.0F
Medical	Ultrasound machine, pet medical equipment, oxygen machine, minimally invasive surgical equipment	5.5V : 0.22F 、 0.47F 、 1.0F 、 1.5F
Telecom	Wireless communication, positioning and navigation, HPLC carrier module, LTU line unit, intelligent gateway, data storage and protection	2.7V : 10F 、 15F
		3.0V : 10F 、 15F
		5.5V : 0.47F 、 1.5F 、 2.5F 、 5F
Home Automation	LED lighting, switch, home appliance power outage data protection, home appliance	5.5V : 0.22F 、 0.33F 、 0.47F 、 1.0F 、 1.5F

Advantages of Supercapacitor

High Power Density



Power density can reach 4000W/KG, which is more than 5-10 times of lithium batteries.



Fast Charging Speed

Can achieve above 95% of the rated capacitance in less than 10 minutes.

Long Cycle Life



Can be charged and discharged for 500K-1M times.



Wide Operation Temp.

Operating temperature range from -40~+85°C.

