

5.5V Supercapacitors for Hold-up and Memory Back-up Applications

Introducing High Capacitance 5.5V Coin Cell Products in Industry Standard Packages

1. Maintains Supply Integrity

High capacitance, 0.1F to 1.5F, enables critical functions to continue or to be completed in a controlled manner during battery swap out or mains fail.

2. Extensive Offering

The KR Series is available in three industry standard mechanical packages, cylindrical style, horizontal mount and vertical mount, each with six capacitance values from 0.1F to 1.5F.

3. Low Leakage Current

Ultra low leakage current levels make the KR Series ideal for battery powered equipment where loading needs to be minimized to prolong the operating time.

4. Space Saving

High energy density allows the use of small 11.5mm to 21.5mm diameter low profile packages with 5mm & 7.5mm thickness.

5. RoHS Compliant

The full line of KR Series supercapacitors are RoHS compliant, lead free and present no disposal issues at end of life.



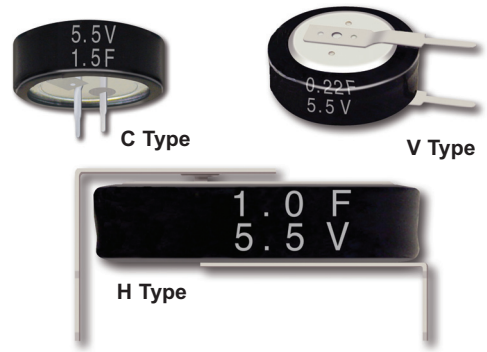
KR Series Supercapacitor Specifications



Catalog Symbol: KR-5R5 V 104 -R

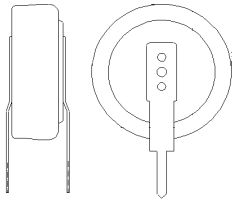
Series: KR-5R5
 Voltage Rating: V
 Package Style: 104 -R

RoHS Compliant
 Capacitance Value
 (10 x 10⁴ μF = 0.1F)



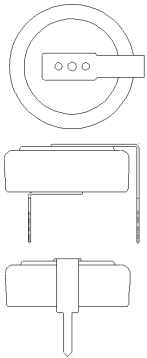
Package Styles and Dimensions:

V Type



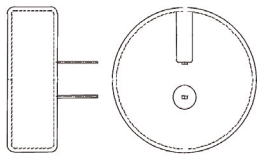
Capacitance (F)	Diameter (mm)	Width (mm)
0.1 – 0.47	11.5	5.0
1.0 – 1.5	19.0	5.0

H Type



Capacitance (F)	Diameter (mm)	Height (mm)
0.1 – 0.47	11.5	5.0
1.0 – 1.5	19.0	5.0

C Type



Capacitance (F)	Diameter (mm)	Height (mm)
0.1 – 0.47	13.5	7.5
1.0 – 1.5	21.5	7.5

The Cooper PowerStor® Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. The Cooper PowerStor KR Series combines a voltage rating of 5.5V with high capacitance by volume resulting in high energy density levels in excess of 10 Joules / cm³. This high energy storage capability combined with over 10 years of operating life makes the KR Series the ideal choice for many consumer, office & telecom equipment applications.

Typical Applications:

- Computer & Peripherals
- Telephones
- DSL Modems & Routers
- Digital Radios
- Set Top Boxes
- White Goods & Kitchen Appliances
- Copiers
- Electric Utility Meters
- HVAC Controls

Electrical Specifications	
Working Voltage	5.5 Volts
Surge Voltage	6.3 Volts
Nominal Capacitance Range	0.1 to 1.5F
Maximum Equivalent Series Resistance @ 1KHz	75 - 30 Ohms
Capacitance Tolerance	-20% to +80% (20°C)
Operating Temperature Range	-25°C to 70°C

Our mission is to be the first choice for target customers seeking application specific power management and protection solutions in the Digital Home & Office and Mobile Electronics world.



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