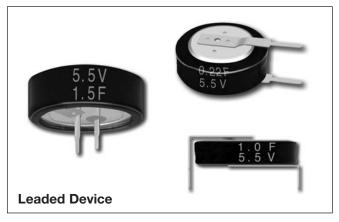
Coin Cell Supercapacitors KR Series



Description

Cooper Bussmann[®] PowerStor[®] supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor solutions tailored to specific applications that range from a few micro-amps for several days to several amps for milliseconds.

The KR series offers a wide range of high capacitance coin cell style products for use in memory & RTC back-up applications. End products include computers, cameras, camcorders, telephones, printers, car stereos, CCTV, set top box and PDP.

Features & Benefits:

- High specific capacitance
- Low leakage current
- Long cycle life
- Eco-friendly

Typical Applications:

- Computer & peripherals
- Telephones
- DSL modems & routers
- Digital radios
- Set top boxes
- White goods & kitchen appliances
- Copiers
- Electric utility meters
- HVAC controls

Specifications					
Working Voltage 5.5V					
Surge Voltage	6.3V				
Nominal Capacitance Range	0.1 to 1.5F				
Capacitance Tolerance	-20% to +80% (20°C)				
Operating Temperature Range	-25°C to 70°C				

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Standard Products							
Nominal	Part	Nominal ESR (Ω)	Nominal	Dimension	Typical Mass		
Capacitance	Number	(Equivalent Series Resistance)			Lead	(grams/1 piece)	
(F)		Measured @ 1kHz	Diameter	Height	C to C		
0.1	KR-5R5V104-R	75	11.5	12.5	5	1.4	
0.1	KR-5R5H104-R	75	11.5	5	10	1.4	
0.1	KR-5R5C104-R	75	13.5	6.5	5	3.3	
0.22	KR-5R5V224-R	75	11.5	12.5	5	1.4	
0.22	KR-5R5H224-R	75	11.5	5	10	1.4	
0.22	KR-5R5C224-R	75	13.5	6.5	5	3.3	
0.33	KR-5R5V334-R	50	11.5	12.5	5	1.4	
0.33	KR-5R5H334-R	50	11.5	5	10	1.4	
0.33	KR-5R5C334-R	50	13.5	6.5	5	3.3	
0.47	KR-5R5V474-R	50	11.5	12.5	5	1.4	
0.47	KR-5R5H474-R	50	11.5	5	10	1.4	
0.47	KR-5R5C474-R	50	13.5	6.5	5	3.3	
1.0	KR-5R5V105-R	30	19	19.5	5	4.2	
1.0	KR-5R5H105-R	30	19	6.5	20	4.2	
1.0	KR-5R5C105-R	30	21.5	7.5	5	9.1	
1.5	KR-5R5V155-R	30	19	19.5	5	4.2	
1.5	KR-5R5H155-R	30	19	6.5	20	4.2	
1.5	KR-5R5C155-R	30	21.5	7.5	5	9.1	

Performance						
Parameter	Capacitance Change	ESR				
	(% of initial measured value)	(% of initial specified value)				
Life (1000 hrs @ 70°C @ 5.5Vdc)	≤ 30	≤ 400				
Storage - Low and High Temperature	≤ 30	≤ 400				
(1000 hrs @ -25°C and 70°C)						



Data Sheet 4327

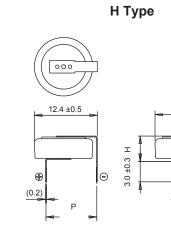
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Dimensions (mm)						
Part Number	D	Н	Р			
KR-5R5V104-R	11.5	12.5	5			
KR-5R5H104-R	11.5	5	10			
KR-5R5C104-R	13.5	6.5	5			
KR-5R5V224-R	11.5	12.5	5			
KR-5R5H224-R	11.5	5	10			
KR-5R5C224-R	13.5	6.5	5			
KR-5R5V334-R	11.5	12.5	5			
KR-5R5H334-R	11.5	5	10			
KR-5R5C334-R	13.5	6.5	5			
KR-5R5V474-R	11.5	12.5	5			
KR-5R5H474-R	11.5	5	10			
KR-5R5C474-R	13.5	6.5	5			
KR-5R5V105-R	19	19.5	5			
KR-5R5H105-R	19	6.5	20			
KR-5R5C105-R	21.5	7.5	5			
KR-5R5V155-R	19	19.5	5			
KR-5R5H155-R	19	6.5	20			
KR-5R5C155-R	21.5	7.5	5			

Dimensions - mm

For parts 0.1F to 0.47F

V Туре

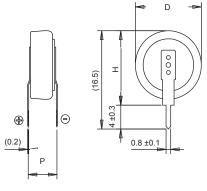


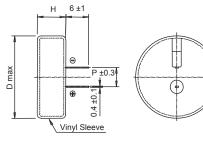
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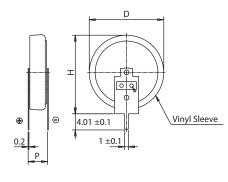
0.8 ±0.1

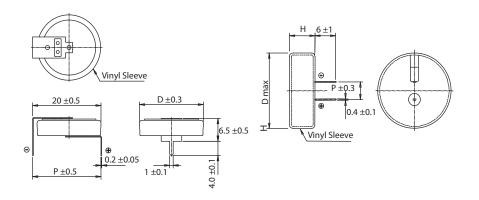






Dimensions - mm For parts 1.0F to 1.5F







Part Numbering System										
К	R	-	5	R	5				-	R
Series Code	Version		Voltage (V) R is decimal			Configuration	Capacitance (µF)			RoHS
K = Coin Cell	R = Leaded		5	5R5 = 5.5V		V = Vertical H = Horizontal C = Cylindrical		Multiplier Example: = 47 x 10⁴µF or 0.47F		Compliant

Packaging Information

Standard packaging: Bulk, 500 units per package.

For 0.1F to 0.47F 500 units per bag.

For 1.0F to 1.5F 100 units per tray, 5 trays per box

Part Marking

Manufacturer Capacitance (F) Max. Operating Voltage (V) Polarity Marking

North America

Cooper Bussmann 1225 Broken Sound Parkway NW Suite F Boca Raton, FL 33487-3533 Tel: 1-561-998-4100 Fax: 1-561-241-6640 Toll Free: 1-888-414-2645

Cooper Bussmann P.O. Box 14460 St. Louis, MO 63178-4460 Tel: 1-636-394-2877 Fax: 1-636-527-1607

Europe

Cooper Bussmann Cooper (UK) Limited Burton-on-the-Wolds Leicestershire • LE12 5TH UK Tel: +44 (0) 1509 882 737 Fax: +44 (0) 1509 882 786

Cooper Bussmann Avda. Santa Eulalia, 290 08223 Terrassa, (Barcelona), Spain Tel: +34 937 362 812 +34 937 362 813 Fax: +34 937 362 719

Asia Pacific

Cooper Bussmann 1 Jalan Kilang Timor #06-01 Pacific Tech Centre Singapore 159303 Tel: +65 278 6151 Fax: +65 270 4160

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