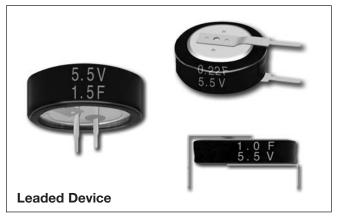
Coin Cell Supercapacitors KR Series



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					

Data Sheet 4327

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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	7.5	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	7.5	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	7.5	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	7.5	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)						



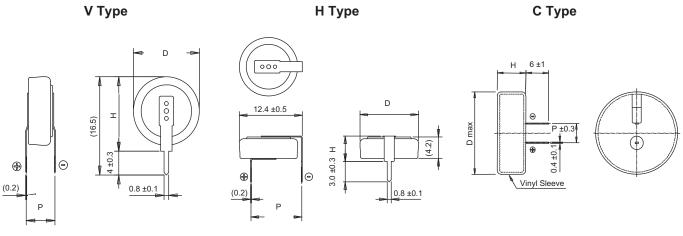
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Dimensions (mm)						
Part Number	D	H	Р			
KR-5R5V104-R	11.5	12.5	5			
KR-5R5H104-R	11.5	5	10			
KR-5R5C104-R	13.5	7.5	5			
KR-5R5V224-R	11.5	12.5	5			
KR-5R5H224-R	11.5	5	10			
KR-5R5C224-R	13.5	7.5	5			
KR-5R5V334-R	11.5	12.5	5			
KR-5R5H334-R	11.5	5	10			
KR-5R5C334-R	13.5	7.5	5			
KR-5R5V474-R	11.5	12.5	5			
KR-5R5H474-R	11.5	5	10			
KR-5R5C474-R	13.5	7.5	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			

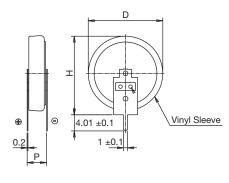
Dimensions - mm

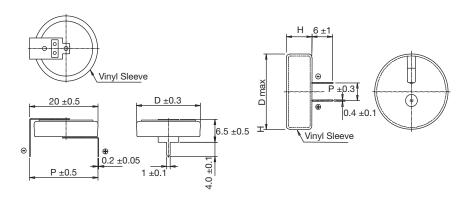
For parts 0.1F to 0.47F



Dimensions - mm

For parts 1.0F to 1.5F





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Part Numbering System										
К	R	-	5	R	5				-	R
Series	Version		\	Voltage (V)		Configuration Capacitance (µF)				
Code	VOIDIOIT		R	is decima	al	oomgaradion	οαρασιταπου (μι)			RoHS
						V = Vertical	Value	Multiplier		Compliant
K = Coin Cell R = Leaded	5R5 = 5.5V		/	H = Horizontal	Example:]	oompliant		
			C = Cylindrical	474 = 47 x 1)⁴µF or 0.47F					

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

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