

Supercapacitors

B Series - High Capacitance



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.

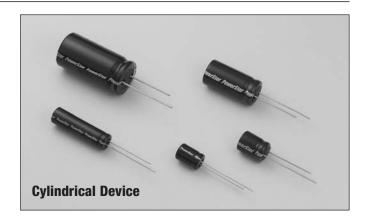
Features & Benefits

- High specific capacitance
- Very low ESR
- · Low leakage currents
- Long cycle life
- Main power

Applications

- Hybrid battery packs
- Hold-up power





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Specifications					
Working Voltage	2.5V				
Surge Voltage	3.0V				
Capacitance	3.3F to 100F				
Capacitance Tolerance	-20% to +80% (20°C)				
Operating Temperature Range	3.3-22F = -25°C to 70°C, 33-100F = -25°C to 60°C				

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Standard Product							
Nominal		Nominal ESR (Ω)	NO.				
Capacitance		(Equivalent Series Resistance)	Nominal Dime	nsions (mm)	Typical Mass		
(F)	Part Number	Measured @ 1kHz	Diameter	Length	(grams/piece)		
3.3	B1020-2R5335-R	0.150	10	20.5	2.8		
4.7	B0830-2R5475-R	0.150	-8	30	2.6		
6.8	B1030-2R5685-R	0.100	10	30	3.9		
10	B1325-2R5106-R	0.060	13	26	5.6		
22	B1635-2R5226-R	0.040	16	35	11.0		
33	B1835-2R5336-R	0.030	18	35	13.5		
50	B1840-2R5506-R	0.025	18	40	14.7		
100	B1860-2R5107-R	0.020	18	60	22.0		
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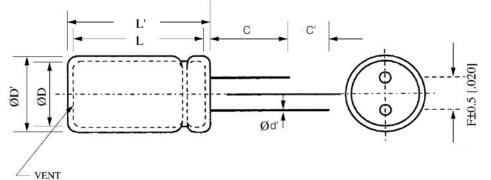
10 201							
Performance							
	Capacitance Change	ESR					
Parameter	(% of initial measured value)	(% of initial specified value)					
Life (3.3F) 22F = 1000 hrs @ 70°C @ 2.5Vdc) (33F 100F = 1000 hrs @ 60°C @ 2.5Vdc)	<u>≤</u> 30 %	<u>≤</u> 300 %					
Storage Low and High Temperature (3.3F - 22F = 1000 hrs @ -25°C and 70°C) (33F - 100F = 1000 hrs @ -25°C and 60°C)	≤ 30 %	<u>≤</u> 300 %					





Dimensions (mm)								
Part Number	D	D'	L	Ľ	F	ď	С	C'
B1020-2R5335-R	10.0	10.5	21.8	22.3	5.0	0.60	20.0	5.0
B0830-2R5475-R	8.0	8.5	30.5	31.0	3.5	0.50	20.0	5.0
B1030-2R5685-R	10.0	10.5	31.0	31.5	5.0	0.60	20.0	5.0
B1325-2R5106-R	13.0	13.5	27.9	28.4	5.0	0.60	20.0	5.0
B1635-2R5226-R	16.0	16.5	37.5	38.0	7.5	0.80	20.0	5.0
B1835-2R5336-R	18.0	18.5	37.5	38.0	7.5	0.80	20.0	5.0
B1840-2R5506-R	18.0	18.5	41.5	42.0	7.5	0.80	20.0	5.0
B1860-2R5107-R	18.0	18.5	59.5	60.5	7.5	0.80	20.0	5.0
Tolerances	Maximum			± 0.5	± 0.02	Min	imum	

Note: Longer lead is positive.



Part Numbering System								
В			_	2	R	5		
Series	Dimensions (mms)		V 1	/oltage (V)	Capacitance (µF)		
Code	Dimensio	Dimensions (mm)		R is Decimal		al 🚽	Value Multiplier	
B Series	Diameter	Length		2	R5 = 2.5	V	Example: 475 = 47 x 10⁵µF or 4.7F	
Packaging Information Packaging: Manufacturer								
 Standard packaging: Bulk, 100 units per bag. Larger bulk packages available on request. 				Capacitance (F) Max Operating Voltage (V)				
Larger bulk packages available on request.					Series Code (or part number) Polarity			

Packaging Information

- · Standard packaging: Bulk, 100 units per bag.
- · Larger bulk packages available on request. er

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Authorized Distributor

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Cooper Bussmann:

<u>B1010-2R5155-R</u> <u>B0820-2R5225-R</u> <u>B0810-2R5105-R</u> <u>B0510-2R5224-R</u> <u>B0810-2R5105-AP</u> <u>B1020-2R5335-1</u> B1325-2R5106-CC