

Supercapacitors

B Series - High Capacitance



Description

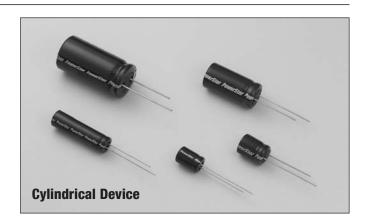
Cooper Bussmann PowerStor® supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor 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
- Pulse power



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				

			hi	ns	.275
		Standard Produc		1	N.O.
Nominal		Nominal ESR (Ω)			
Capacitance		(Equivalent Series Resistance)	Nominal Dime	ensions (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
	C	011		•	•

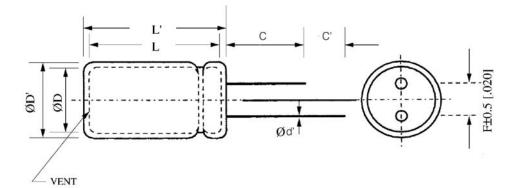
10 201		
ЦD	Performance	
	Capacitance Change	ESR
Parameter	(% of initial measured value)	(% of initial specified value)
Life (3.3F 22F = 1000 hrs @ 70°C @ 2.5Vdc) (33F 100F = 1000 hrs @ 60°C @ 2.5Vdc)	<u>≤</u> 30 %	<u>≤</u> 300 %
Storage Low and High Temperature		
(3.3F - 22F = 1000 hrs @ -25°C and 70°C)	<u>≤</u> 30 %	<u>≤</u> 300 %
(33F - 100F = 1000 hrs @ -25°C and 60°C)		



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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	61.0	7.5	0.80	20.0	5.0
Tolerances		Ма	ximum		± 0.5	± 0.02	Min	imum

Note: Longer lead is positive.



			Part N	umberi	ng
		_	2	R	

	Part Numbering System									
В			_	2	R	5				
Series	Series Di Contra de la contra d			۱ N	/oltage (\	/)	Capacitance (µF)			
Code	Dimensi	ons (mm)		R is Decimal		nal 🖌	Value Multiplier			
B Series	Diameter	Length		2	R5 = 2.5	IV.	Example: 475 = 47 x 10 ^₅ µF or 4.7F			
	NeW cheel									
	Packaging Information Part Marking									
Packagir	-						Manufacturer			
	ard packaging: Bu			C			Capacitance (F)			
 Larger 	bulk packages a	vailable on rec	uest.	Max Operating Voltage (V)						
	Larger bulk packages available on request.						Series Code (or part number)			
		C	S .	k.			Polarity			

Packaging Information

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

North America

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