



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Supercapacitors

B Series - High Capacitance



Description

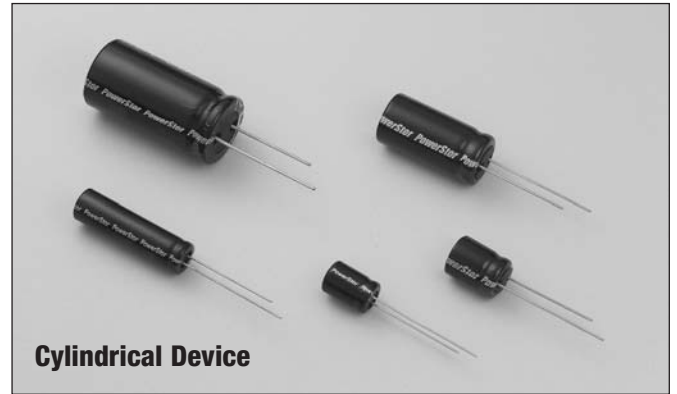
Cooper Bussmann PowerStor® supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor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

Applications

- Main power
- Hybrid battery packs
- Hold-up power
- Pulse power



Cylindrical Device

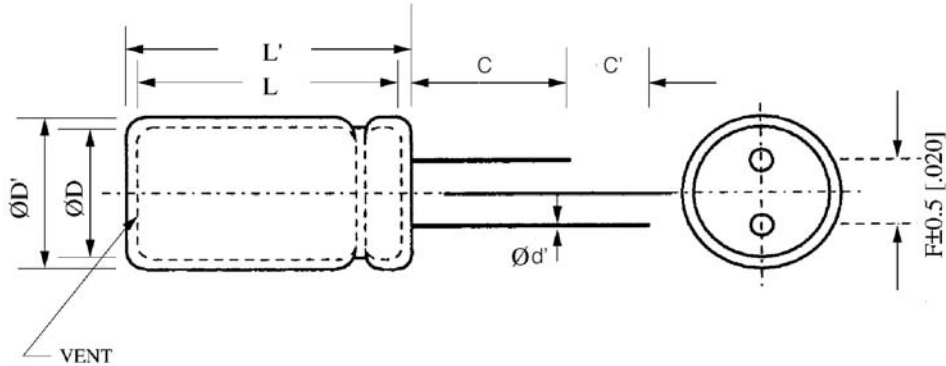
Specifications	
Working Voltage	2.5V
Surge Voltage	3.0V
Capacitance	3.3F to 100F
Capacitance Tolerance	-20% to +80% (20°C)
Operating Temperature Range	3.3-22F = -25°C to 70°C, 33-100F = -25°C to 60°C

Standard Product					
Nominal Capacitance (F)	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance) Measured @ 1kHz	Nominal Dimensions (mm)		Typical Mass (grams/piece)
			Diameter	Length	
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

Performance		
Parameter	Capacitance Change (% of initial measured value)	ESR (% of initial specified value)
Life (3.3F - 22F = 1000 hrs @ 70°C @ 2.5Vdc) (33F - 100F = 1000 hrs @ 60°C @ 2.5Vdc)	≤ 30 %	≤ 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 %	≤ 300 %

Dimensions (mm)								
Part Number	D	D'	L	L'	F	d'	C	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	Minimum	

Note: Longer lead is positive.



Part Numbering System							
B	□	□	□	□	2	R	5
Series Code	Dimensions (mm)		Voltage (V)		Capacitance (μF)		
B Series	Diameter	Length	R is Decimal		Value	Multiplier	
			2R5 = 2.5V		Example: 475 = 47 x 10 ⁵ μF or 4.7F		

Packaging Information

Packaging:

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

Part Marking

- Manufacturer
- Capacitance (F)
- Max Operating Voltage (V)
- Series Code (or part number)
- Polarity

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