

Supercapacitors

HB Series

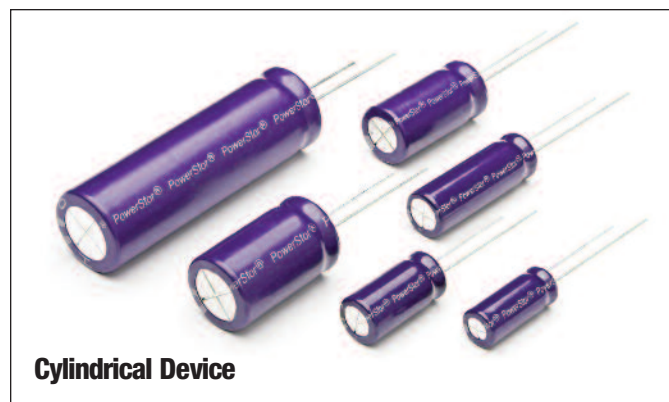


Description

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.

Features & Benefits

- Ultra low ESR for high power density
- Large capacitance for high energy density
- UL Recognized



Specifications

Working Voltage	2.5V
Surge Voltage	3.0V
Capacitance	3.0F to 110F
Capacitance Tolerance	-10% to +30% (20°C)
Operating Temperature Range	-25°C to 70°C
Extended Operating Temperature Range	-25°C to 85°C (with linear voltage derating to 2.1V @ 85°C)

Standard Product

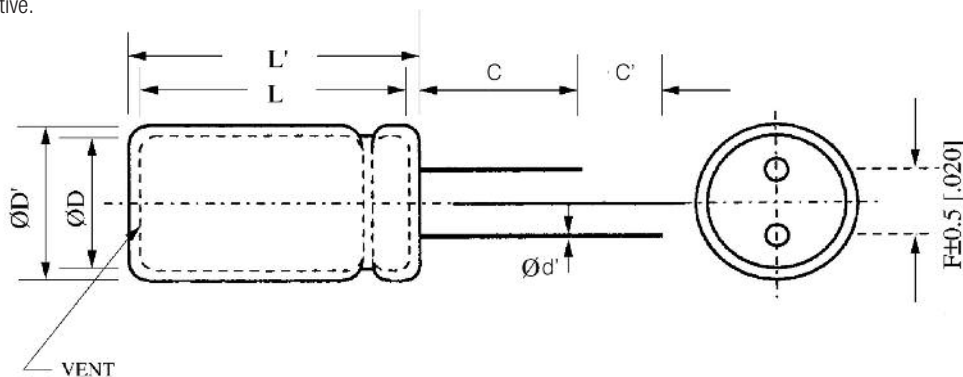
Capacitance (F)	Part Number	Maximum ESR (Ω) (Equivalent Series Resistance) Measured @		Nominal Leakage Current (μ A) After 72 Hrs. @ 20°C	Nominal Dimensions (mm)		Typical Mass (grams/piece)
		1kHz	100Hz		Diameter	Length	
3	HB0820-2R5305-R	0.155	0.160	7	8	20	1.5
5	HB1020-2R5505-R	0.095	0.100	11	10	20.5	2.4
6	HB0830-2R5605-R	0.095	0.100	11	8	30	2.4
10	HB1030-2R5106-R	0.060	0.060	20	10	30	3.5
15	HB1325-2R5156-R	0.045	0.050	22	13	26	4.8
25	HB1625-2R5256-R	0.036	0.040	28	16	25	8.2
35	HB1635-2R5356-R	0.028	0.030	32	16	35	9.8
60	HB1840-2R5606-R	0.023	0.025	47	18	40	13.8
110	HB1860-2R5117-R	0.018	0.020	180	18	60	22

Performance

Parameter	Capacitance Change (% of initial value)	ESR (% of maximum specified value)
Life (1000 hrs @ 70°C @ 2.5Vdc)	$\leq 30 \%$	$\leq 200 \%$
Storage - Low and High Temperature (1000 hrs @ -25°C and 85°C)	$\leq 30 \%$	$\leq 200 \%$

Dimensions (mm)								
Part Number	D	D'	L	L'	F	d'	C	C'
HB0820-2R5305-R	8.0	8.5	20.5	21.0	3.5	0.50	20.0	5.0
HB1020-2R5505-R	10.0	10.5	21.8	22.3	5.0	0.60	20.0	5.0
HB0830-2R5605-R	8.0	8.5	30.5	31.0	3.5	0.50	20.0	5.0
HB1030-2R5106-R	10.0	10.5	31.0	31.5	5.0	0.60	20.0	5.0
HB1325-2R5156-R	13.0	13.5	27.9	28.4	5.0	0.60	20.0	5.0
HB1625-2R5256-R	16.0	16.5	27.9	28.4	7.5	0.80	20.0	5.0
HB1635-2R5356-R	16.0	16.5	37.5	38.0	7.5	0.80	20.0	5.0
HB1840-2R5606-R	18.0	18.5	41.5	42.0	7.5	0.80	20.0	5.0
HB1860-2R5117-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						
HB				-	R	
Series Code	Dimensions (mm)		Voltage (V)		Capacitance (μF)	
HB Series	Diameter	Length	R is Decimal		Value	Multiplier
			2R5 = 2.5V		Example: 106 = 10 x 10 ⁶ μF or 10F	

Packaging Information

Packaging:

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

Part Marking

Manufacturer
Capacitance (F)
Nominal Working Voltage (V)
Series Code (or part number)
Polarity

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

The only controlled copy of this Data Sheet is the electronic read-only version located on the Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Life Support Policy: Bussmann does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com