



Description

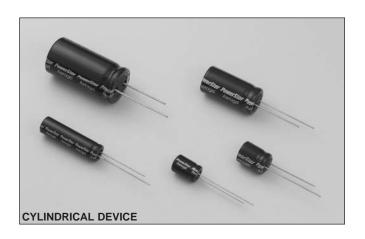
The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to supercapacitors, ultracapacitors and electrochemical double layer capacitors (EDLCs) with the added benefit of low ESR (Equivalent Series Resistance).

Features & Benefits

- High specific capacitance
- Very low ESR
- · Low leakage currents
- · Long cycle life
- Ultra low ESR also available (A Series)

Applications

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



SPECIFICATIONS					
Working Voltage	2.5 volts				
Surge Voltage	3.0 volts				
Nominal Capacitance Range	0.22 to 50 F				
Capacitance Tolerance	-20% to +80% (20°C)				
Operating Temperature Range	-25°C to 70°C				

	STANDARD PRODUCTS						
Nominal	Part	Nominal ESR	Nominal Dimensions				
Capacitance	Number	(Equivalent Series Resistance)					
(F)		Measured @ 1kHz (Ω)					
0.22	B0510-2R5224	3	Ø = 5 mm; L = 11 mm				
1.0	B0810-2R5105	0.400	Ø = 8 mm; L = 11.5 mm				
1.5	B1010-2R5155	0.300	\emptyset = 10 mm; L = 12.5 mm				
2.2	B0820-2R5225	0.200	\emptyset = 8 mm; L = 20 mm				
3.3	B1020-2R5335	0.150	\emptyset = 10 mm; L = 20.5 mm				
4.7	B0830-2R5475	0.150	Ø = 8 mm; L = 30 mm				
6.8	B1030-2R5685	0.100	Ø = 10 mm; L = 30 mm				
10	B1325-2R5106	0.060	Ø = 13 mm; L = 26 mm				
22	B1635-2R5226	0.040	Ø = 16 mm; L = 35 mm				
33	B1835-2R5336	0.030	Ø = 18 mm; L = 35 mm				
50	B1840-2R5506	0.025	Ø = 18 mm; L = 40 mm				

PERFORMANCE						
Parameter	Capacitance Change	ESR				
	(% of initial measured value)	(% of initial specified value)				
Life (1000 hrs @ 70°C @ 2.5 volts DC)	≤ 30	≤ 300				
Storage - low and high temperature	≤ 30	≤ 300				
(1000 hrs @ -25°C and 70°C)						



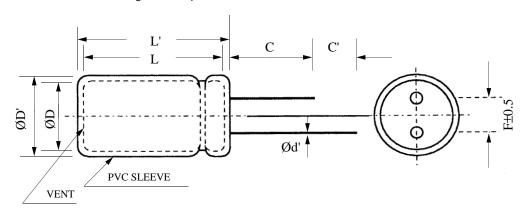


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Aerogei	B Series

DIMENSIONS (mm)								
Part Number	D	D'	L	L'	F	ď'	С	C'
B0510-2R5224	5.0	5.5	11.5	12.0	2.0	0.50	20.0	5.0
B0810-2R5105	8.0	8.5	12.7	13.2	3.5	0.50	20.0	5.0
B1010-2R5155	10.0	10.5	13.9	14.4	5.0	0.60	20.0	5.0
B0820-2R5225	8.0	8.5	20.5	21.0	3.5	0.50	20.0	5.0
B1020-2R5335	10.0	10.5	21.8	22.3	5.0	0.60	20.0	5.0
B0830-2R5475	8.0	8.5	30.5	31.0	3.5	0.50	20.0	5.0
B1030-2R5685	10.0	10.5	31.0	31.5	5.0	0.60	20.0	5.0
B1325-2R5106	13.0	13.5	27.9	28.4	5.0	0.60	20.0	5.0
B1635-2R5226	16.0	16.5	37.5	38.0	7.5	0.80	20.0	5.0
B1835-2R5336	18.0	18.5	37.5	38.0	7.5	0.80	20.0	5.0
B1840-2R5506	18.0	18.5	41.5	42.0	7.5	0.80	20.0	5.0
	Maximum				± 0.5	± 0.02	Minii	num

Note: Longer lead is positive



PART NUMBERING SYSTEM									
В			-	2	R	5			
Series	Dimensions (mm)			Voltage (V)		V)	Capacitance		
Code				R is decimal		nal			
B = High	Diameter	Length					Value	Multiplier	
Capacitance				2R5 = 2.5V		Exa	mple:		
				475 = 47			475 = 47 x 1	0⁵ μ F or 4.7 F	

PACKAGING INFORMATION

Standard packaging: Bulk, 100 units per package.

Special packaging available upon request. Contact factory.

PART MARKING

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

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Visit us on the Web at www.cooperET.com

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