

### Description

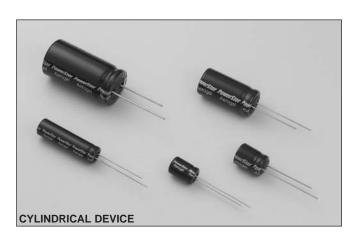
The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to supercapacitors, ultracapacitors and electrochemical double layer capacitors (EDLCs) with the added benefit of low ESR (Equivalent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

### Features & Benefits

- High specific capacitance
- Very low ESR
- Low leakage currentsLong cycle lifeUltra low ESR also
- Offra 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 = 13 mm						
1.5	B1010-2R5155	0.300	Ø = 10 mm; L = 12.5 mm						
2.2	B0820-2R5225	0.200	Ø = 8  mm;  L = 20  mm						
3.3	B1020-2R5335	0.150	Ø = 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 specified value)						
	(% of initial measured 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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**PowerStor**<sup>®</sup>

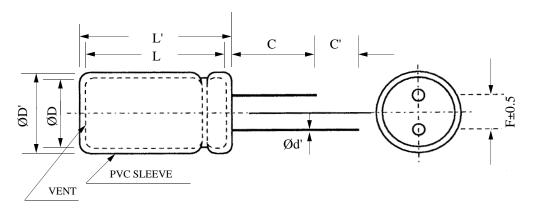
### Aerogel Supercapacitors B Series

### **PowerStor** Aerogel Supercapacitors B Series

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DIMENSIONS (mm)										
Part Number	D	D'	L	L'	F	d'	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	13.0	13.5	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		
		Maxi	mum		± 0.5	± 0.02	Minir	num		

Note: Longer lead is positive



PART NUMBERING SYSTEM											
В					-	2	R	5			
Series	Dimensions (mm)				Voltage (V)			Capacitance			
Code					R is decimal						
B = High	Diame	ter	L	ength		2R5 = 2.5V		Va	lue	Multiplier	
Capacitance								Example:			
									475 = 47 x 10⁵ µ F or 4.7 F		

### PACKAGING INFORMATION

Standard packaging: Bulk, 100 units per package.

Special packaging available upon request. Contact factory.

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### PART MARKING

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