

Description

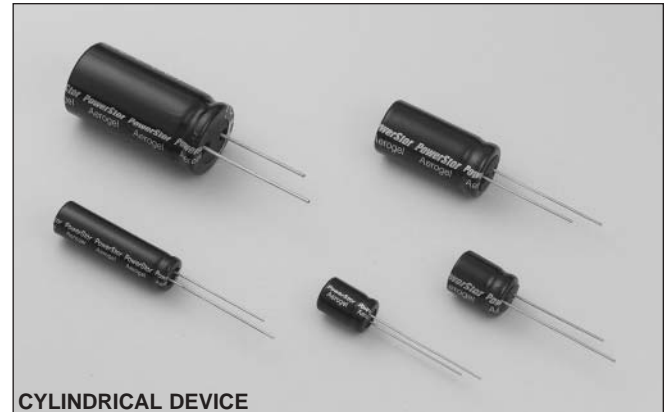
The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to supercapacitors, ultracapacitors and electrochemical double layer capacitors (EDLCs) with the added benefit of low ESR (Equivalent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

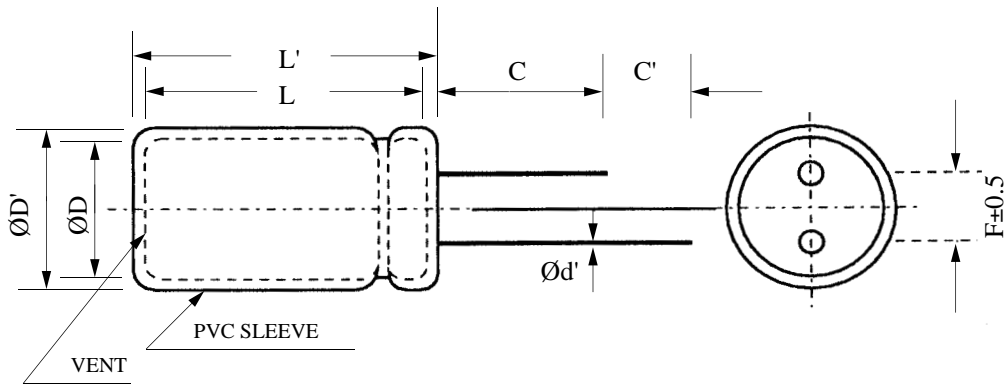
Nominal Capacitance (F)	Part Number	Nominal ESR (Equivalent Series Resistance) Measured @ 1kHz (Ω)	Nominal Dimensions
0.22	B0510-2R5224	3	Ø = 5 mm; L = 11 mm
1.0	B0810-2R5105	0.400	Ø = 8 mm; L = 13 mm
1.5	B1010-2R5155	0.300	Ø = 10 mm; L = 12.5 mm
2.2	B0820-2R5225	0.200	Ø = 8 mm; L = 20 mm
3.3	B1020-2R5335	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 (% of initial measured value)	ESR (% of initial specified value)
Life (1000 hrs @ 70°C @ 2.5 volts DC)	≤ 30	≤ 300
Storage - low and high temperature (1000 hrs @ -25°C and 70°C)	≤ 30	≤ 300

DIMENSIONS (mm)								
Part Number	D	D'	L	L'	F	d'	C	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
Maximum					± 0.5	± 0.02	Minimum	

Note: Longer lead is positive



PART NUMBERING SYSTEM											
B	□	□	□	□	-	2	R	5	□	□	□
Series Code	Dimensions (mm)					Voltage (V) R is decimal		Capacitance			
B = High Capacitance	Diameter	Length			2R5 = 2.5V		Value	Multiplier			
							Example: 475 = 47 x 10 ⁵ 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

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