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### Description

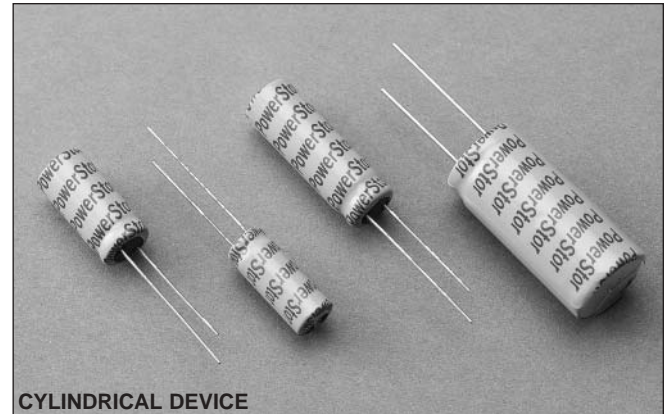
The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to supercapacitors, ultracapacitors and electrochemical double layer capacitors (EDLCs) with the added benefit of low ESR (Equivalent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

### Features & Benefits

- Very low ESR
- Low leakage current
- Long cycle life
- High useable capacity
- Very high specific capacitance also available (B Series)

### Applications

- Pulse power
- Hold-up power
- DC/DC converters
- Hybrid battery packs
- Valve / solenoid actuation



### SPECIFICATIONS

<b>Working Voltage</b>	2.5 volts
<b>Surge Voltage</b>	3.0 volts
<b>Nominal Capacitance Range</b>	0.47 to 4.7 F
<b>Capacitance Tolerance</b>	-20% to +80% (20°C)
<b>Operating Temperature Range</b>	-25°C to 70°C

### STANDARD PRODUCTS

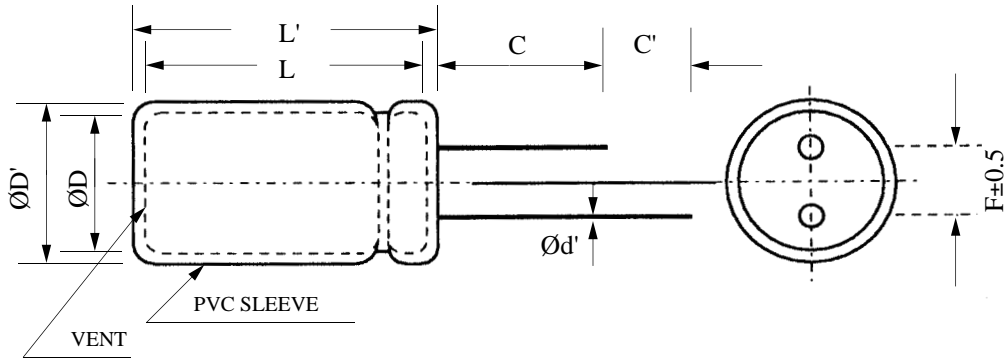
Nominal Capacitance (F)	Part Number	Nominal ESR (Equivalent Series Resistance) Measured @ 1kHz (Ω)	Nominal Dimensions
0.47	A0820-2R5474	0.150	Ø = 8 mm; L = 20 mm
1.0	A1020-2R5105	0.090	Ø = 10 mm; L = 20.5 mm
1.5	A1030-2R5155	0.060	Ø = 10 mm; L = 30 mm
4.7	A1635-2R5475	0.025	Ø = 16 mm; L = 35 mm

### 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'
A0820-2R5474	8.0	8.5	20.5	21.0	3.5	0.50	20.0	5.0
A1020-2R5105	10.0	10.5	21.8	22.3	5.0	0.60	20.0	5.0
A1030-2R5155	10.0	10.5	31.0	31.5	5.0	0.60	20.0	5.0
A1635-2R5475	16.0	16.5	37.5	38.0	7.5	0.80	20.0	5.0
Maximum					± 0.5	± 0.02	Minimum	

Note: Longer lead is positive



PART NUMBERING SYSTEM											
<b>A</b>	□	□	□	□	-	<b>2</b>	<b>R</b>	<b>5</b>	□	□	□
Series Code	Dimensions (mm)					Voltage (V) R is decimal		Capacitance (µF)			
B = Very Low ESR	Diameter		Length			2R5 = 2.5V		Value		Multiplier	
								Example: 475 = 47 x 10 <sup>5</sup> 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