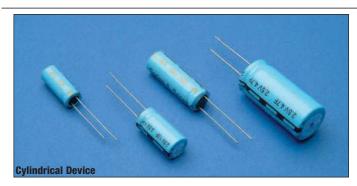


## **Supercapacitors**

#### **A 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**

- 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

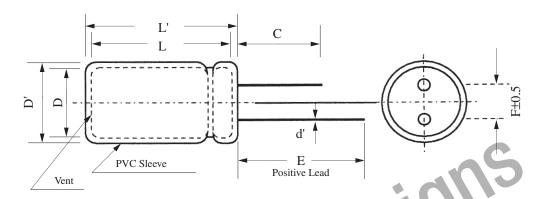


Standard Products							
Nominal	Part	Nominal ESR ( $\Omega$ )	Nominal Dimensions (mm)		Typical Mass		
Capacitance	Number	(Equivalent Series Resistance)	(Equivalent Series Resistance)		(grams/1 piece)		
(F)		Measured @ 1kHz	Diameter	Length			
0.47	A0820-2R5474-R	0.150	8	20	1.8		
1.0	A1020-2R5105-R	0.090	10	20.5	2.6		
1.5	A1030-2R5155-R	0.060	10	30	3.8		
4.7	A1635-2R5475-R	0.025	16	35	10.7		

Performance							
Parameter	Capacitance Change	ESR					
	(% of initial measured value)	(% of initial specified value)					
Life (1000 hrs @ 70°C @ 2.5Vdc)	≤ 30	≤ 300					
Storage - Low and High Temperature	≤ 30	≤ 300					
(1000 hrs @ -25°C and 70°C)							

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Dimensions (mm)								
Part Number	D	D'	L	Ľ	F	ď	C	E
A0820-2R5474-R	8.0	8.5	20.5	21.0	3.5	0.50	20.0	25.0
A1020-2R5105-R	10.0	10.5	21.8	22.3	5.0	0.60	20.0	25.0
A1030-2R5155-R	10.0	10.5	31.0	31.5	5.0	0.60	20.0	25.0
A1635-2R5475-R	16.0	16.5	37.5	38.0	7.5	0.80	20.0	25.0
Tolerances	Maximum			± 0.5	± 0.02	Mini	mum	



Part Numbering System								
Α			-	2 R 5				
Series	Dimensions (mm)			Voltage (V)	Capacitance (µF)			
Code	Difficusions (iffili)			R is decimal	бараблансе (µГ)			
B = Very	Diameter	Length			Value Multiplier			
Low ESR		-10		2R5 = 2.5V	Example: 475 = 47 x 10 <sup>5</sup> µF or 4.7F			

### **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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**Authorized Distributor** 

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