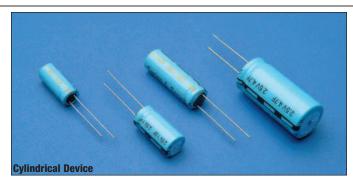


Supercapacitors A Series



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

Specifications						
Working Voltage	2.5V					
Surge Voltage	3.0V					
Nominal Capacitance Range	0.47 to 4.7F					
Capacitance Tolerance	-20% to +80% (20°C)					
Operating Temperature Range	-25°C to 70°C					

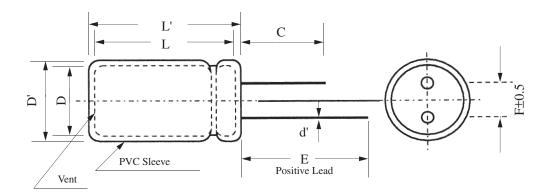
	Standard Products									
Nominal	Part	Nominal ESR (Ω)	Nominal Dim	Typical Mass						
Capacitance (E)	Number	(Equivalent Series Resistance) Measured @ 1kHz	Diameter	Length	(grams/1 piece)					
(F)	40000 ODE 474 D		Diameter		4.0					
0.47	A0820-2R5474-R	0.150	8	20	1.8					
1.0	A1020-2R5105-R	0.090	10	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	L'	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											
A				-	2	R	5				
Series Code	Dimer	nsions (mm	ons (mm)		Voltage (V) R is decimal		Capacitance (μF)				
B = Very	Diameter	L	ength.					Va	lue	Multiplier	
Low ESR					2R5 = 2.5V		2R5 = 2.5V		47		mple: 10⁵µF 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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