

# **Supercapacitors**

# **B** 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.

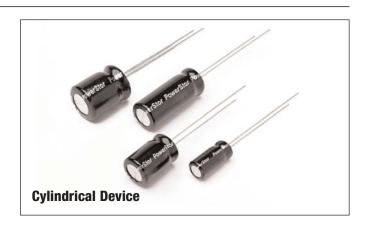
# **Features & Benefits**

- High specific capacitance
- Very low ESR
- Low leakage currents
- Long cycle life
- UL Recognized



# **Applications**

- Main power
- Hybrid battery packs
- Hold-up power
- Pulse power



Specifications					
Working Voltage	2.5V				
Surge Voltage	3.0V				
Capacitance	0.22F to 2.2F				
Capacitance Tolerance	-20% to +80% (20°C)				
Operating Temperature Range	-25°C to 70°C				

Standard Product									
Nominal Maximum ESR (Ω) Nominal Leakage									
Capacitance	(Equivalent Series Resistance)   Current (μA) After   Nominal Dimensions (mm)   Typical Ma								
(F)	Part Number	Measured @ 100Hz	72 Hours @ 20°C	Diameter	Length	(grams/piece)			
0.22	B0510-2R5224-R	2.00	2	5	11	0.54			
1.0	B0810-2R5105-R	0.50	4	8	13	1.2			
1.5	B1010-2R5155-R	0.30	7	10	14	1.9			
2.2	B0820-2R5225-R	0.20	9	8	20	1.5			

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

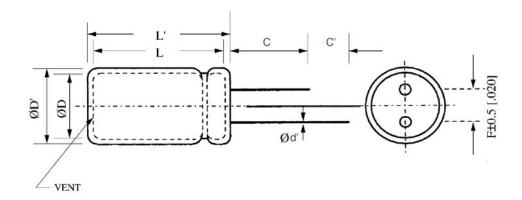


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Dimensions (mm)								
Part Number	D	D'	L	Ľ	F	ď'	С	C'
B0510-2R5224-R	5.0	5.5	11.5	12.0	2.0	0.50	20.0	5.0
B0810-2R5105-R	8.0	8.5	13.0	13.5	3.5	0.50	20.0	5.0
B1010-2R5155-R	10.0	10.5	14.3	14.8	5.0	0.60	20.0	5.0
B0820-2R5225-R	8.0	8.5	20.5	21.0	3.5	0.50	20.0	5.0
Tolerances Maximum			± 0.5	± 0.02	Mini	imum		

Note: Longer lead is positive.



Part Numbering System									
В			_	2 R 5 🗆 🗆					
Series	5:			Voltage (V)			Capacitance (μF)		
Code	Dimensi	ons (mm)		R is Decimal		Va	alue	Multiplier	
B Series	Diameter	Length		2R5 = 2.5V		Example: 155 = 15 x 10⁵µF or 1.5F			

### **Packaging Information**

# Packaging:

- Standard packaging: Bulk, 100 units per bag.
- · Larger bulk packages available on request.

### **Part Marking**

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

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