

Supercapacitors

PB Series



Description

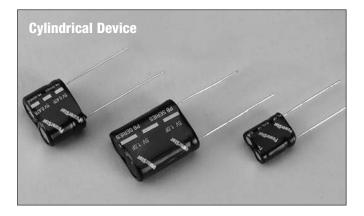
Cooper Bussmann PowerStor[®] supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor solutions tailored to specific applications that range from a few micro-amps for several days to several amps for milliseconds.

Features & Benefits

- 5.0 Volts
- Low ESR
- High capacitance
- Long cycle life
- · Low leakage currents
- Bridge or hold-up power
- Memory backup

Applications

Battery swap out



Specifications							
Working Voltage	5.0V						
Surge Voltage	6.0V						
Capacitance	0.1F to 1.0F						
Capacitance Tolerance	-20% to +80% (20°C)						
Operating Temperature Range	-25°C to 70°C						

Standard Product										
Nominal	Nominal Maximum ESR (Ω) Nominal Leakage									
Capacitance	Part Ni	umbers	(Equivalent Series Resistanc)	Current (µA) After		Typical Mass				
(F)	Vertical	Horizontal	Measured @ 100Hz	72 Hours @ 20°C	Nominal Dimensions (mm)	(grams/piece)				
0.1	PB-5R0V104-R	PB-5R0H104-R	4.0	3	5.5 x 10.8 x 12.5	1.1				
0.47	PB-5R0V474-R	PB-5R0H474-R	1.0	7	8.5 x 16.8 x 14.0	2.4				
1.0	PB-5R0V105-R	PB-5R0H105-R	0.5	12	8.5 x 16.8 x 21.5	3.5				

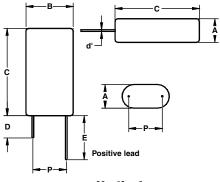
Performance							
Capacitance Change ESR							
Parameter	(% of initial measured value)	(% of initial specified value)					
Life (1000 hrs @ 70°C @ 5.0Vdc)	≤ 30 %	<u>≤</u> 300 %					
Storage - Low and High Temperature (1000 hrs @ -25°C and 70°C)	≤ 30 %	<u>≤</u> 300 %					

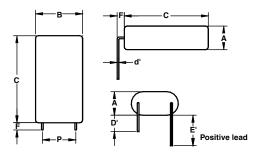
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	Dimensions (mm)										
Vertical Part #	Horizontal Part #	А	В	С	ď	D	D'	E	E'	F	Р
PB-5R0V104-R	PB-5R0H104-R	6.0	11.3	13.0	0.5	20	15	25	20	2.0	7.3
PB-5R0V474-R	PB-5R0H474-R	9.0	17.3	14.5	0.5	20	15	25	20	2.0	11.8
PB-5R0V105-R	PB-5R0H105-R	9.0	17.3	22.0	0.5	20	15	25	20	2.0	11.8
Tolerances			Maximum		± 0.02		Miniı	num		±	0.5

Note: Longer lead is positive.





Vertical

Horizontal

Part Numbering System									
Р	В	_	5	R	0				
Series			Voltage (V)			Capacitance (µF)			
Code	Version		R = Decimal		Configuration	Va	alue	Multiplier	
P Series	High Capacitance		5R0 = 5.0V		V = Vertical	Example: 474 = 47 x 10 ⁴ µF or 0.47F		or 0.47F	
						H = Horizontal			

Pac	ckaging Information		Part Marking				
•	iging: Bulk, 100 units per bag. kages available on request.		Manufacturer Capacitance (F) Max Operating Voltage (V) Series Code (or part number) Polarity				
North America 200per Bussmann 225 Broken Sound Parkway NW 2010 PF 30ca Raton, FL 33487-3533 7ei: 1-561-998-4100 7eix: 1-561-241-6640 7oll Free: 1-888-414-2645	Cooper Bussmann P.O. Box 14460 St. Louis, MO 63178-4460 Tel: 1-636-394-2877 Fax: 1-636-527-1607	Europe Cooper Bussmann Cooper (UK) Limited Burton-on-the-Wolds Leicestershire • LE12 5TH UK Tel: +44 (0) 1509 882 737 Fax: +44 (0) 1509 882 786	Cooper Bussmann Avda. Santa Eulalia, 290 08223 Terrassa, (Barcelona), Spain Tel: +34 937 362 812 +34 937 362 813 Fax: +34 937 362 719	Asia Pacific Cooper Bussmann 1 Jalan Kilang Timor #06-01 Pacific Tech Centre Singapore 159303 Tel: +65 278 6151 Fax: +65 270 4160			
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