

Supercapacitors

PB Series







Description

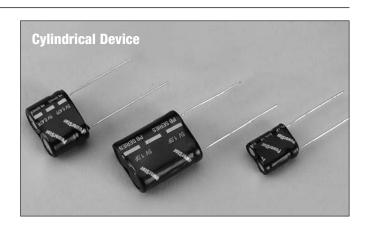
Cooper Bussmann PowerStor supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor 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
- UL Recognized

Applications

- Bridge or hold-up power
- Memory backup
- 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 Maximum ESR (Ω) Nominal Leakage									
Capacitance	Part Numbers		(Equivalent Series Resistanc)	Current (µA) After		Typical Mass			
(F)	Vertical	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 %	≤ 300 %						
Storage - Low and High Temperature (1000 hrs @ -25°C and 70°C)	≤ 30 %	≤ 300 %						

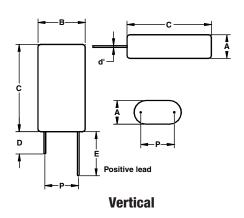


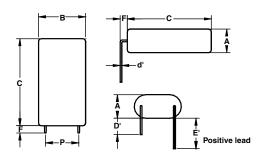
Data Sheet: 4393

1211 BU-SB111358 Page 1 of 2

Dimensions (mm)											
Vertical Part #	Horizontal Part #	А	В	С	ď'	D	D'	Е	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	Minimum			±	0.5		

Note: Longer lead is positive.





Horizontal

Part Numbering System									
Р	В	_	5	R 0					
Series			Voltage (V)			Capacitance (μF)			
Code	Version		R = Decimal		Configuration	Va	lue	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				

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

North America

Cooper Bussmann 1225 Broken Sound Parkway NW Suite F Boca Raton, FL 33487-3533 Tel: 1-561-998-4100 Fax: 1-561-241-6640 Toll 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

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Life Support Policy: Cooper Bussmann does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

©.2011 Cooper Bussmann www.cooperbussmann.com







Data Sheet: 4393



1211 BU-SB111358 Page 2 of 2

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cooper Bussmann:

PB-5R0H105-R PB-5R0V474-R PB-5R0V105-R PB-5R0H474-R PB-5R0H104-R PB-5R0V104-R