

Supercapacitors

PB Series







Description

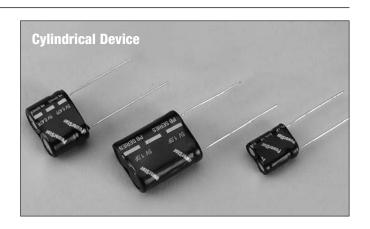
Cooper Bussmann PowerStor supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor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

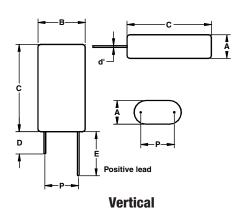


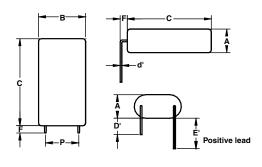
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Dimensions (mm)											
Vertical Part #	Horizontal Part #	А	В	С	ď'	D	D'	Е	E'	F	Р
PB-5R0V104-R	PB-5R0H104-R	6.0	11.3	13.0	0.5	20	15	25	20	2.0	7.3
PB-5R0V474-R	PB-5R0H474-R	9.0	17.3	14.5	0.5	20	15	25	20	2.0	11.8
PB-5R0V105-R	PB-5R0H105-R	9.0	17.3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

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