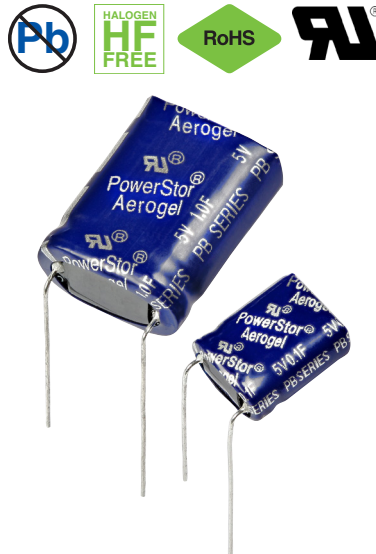


# PowerStor PB Family

## 5.0 volt cylindrical supercapacitors



### Description

Eaton 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 Eaton 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

- 5.0 volts
- Low Equivalent Series Resistance (ESR)
- High capacitance
- Long cycle life
- Low leakage currents
- UL recognized

### Applications

- Bridge or hold-up power
- Memory backup
- Battery swap out

### General 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 extended to 85°C

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**Specifications**

Nominal Capacitance (F)	Vertical Part Number	Horizontal Part Number	Maximum Initial ESR (Ω) (Equivalent Series Resistance) Measured @ 100Hz	Nominal leakage current (μA) after 72 hours @ 20°C	Nominal dimensions (mm)	Typical mass (grams/piece)
0.1	PB-5ROV104-R	PB-5ROH104-R	4.0	3	5.5 x 10.8 x 12.5	1.1
0.47	PB-5ROV474-R	PB-5ROH474-R	1.0	7	8.5 x 16.8 x 14.0	2.4
1.0	PB-5ROV105-R	PB-5ROH105-R	0.5	12	8.5 x 16.8 x 21.5	3.5

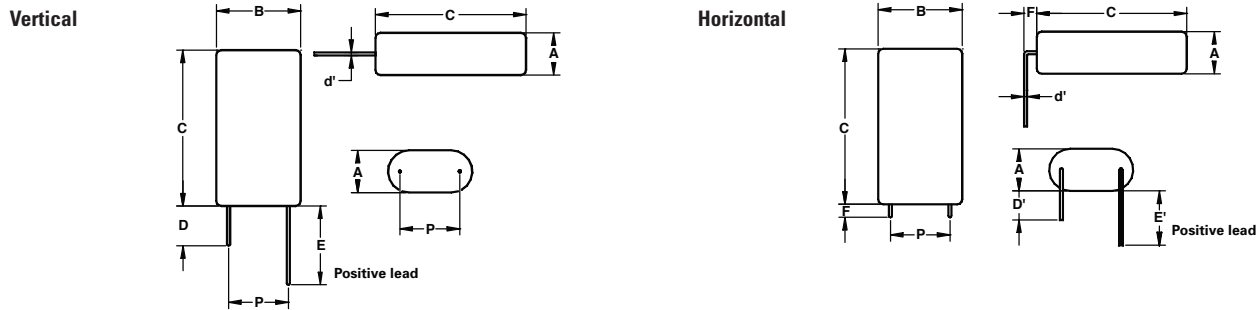
**Performance**

Parameter	Capacitance change (% of initial value)	ESR (% of max. initial value)
Life (1000 hours @ 70°C, 5.0Vdc or 85°C, 4.2Vdc)	≤ 30%	≤ 300%
Storage - Low and High Temperature (1000 hours @ -25°C to +70°C)	≤ 30%	≤ 300%

**Dimensions (mm)**

Vertical Part Number	Horizontal Part Number	A	B	C	d'	D	D'	E	E'	F	P
PB-5ROV104-R	PB-5ROH104-R	6.0	11.3	13.0	0.5	20	15	25	20	2.0	7.3
PB-5ROV474-R	PB-5ROH474-R	9.0	17.3	14.5	0.5	20	15	25	20	2.0	11.8
PB-5ROV105-R	PB-5ROH105-R	9.0	17.3	22.0	0.5	20	15	25	20	2.0	11.8
<b>Tolerances</b>		<b>Maximum</b>			± 0.02	<b>Minimum</b>				± 0.5	

Note: Longer lead is positive.



**Part numbering system**

P	B	—	5	R	0	□	□	□	□	—	R
Family Code	Version		Voltage (V) R = Decimal		Configuration		Capacitance (μF) Value		Multiplier		Option
P Family	High capacitance		5R0 = 5.0V		V = Vertical H = Horizontal		Example: 474 = 47 x 104μF or 0.47F				RoHS Compliant

**Packaging information**

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

**Part marking**

- Manufacturer
- Capacitance (F)
- Max operating voltage (V)
- Family code (or part number)
- Polarity

Life Support Policy: Eaton 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.

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