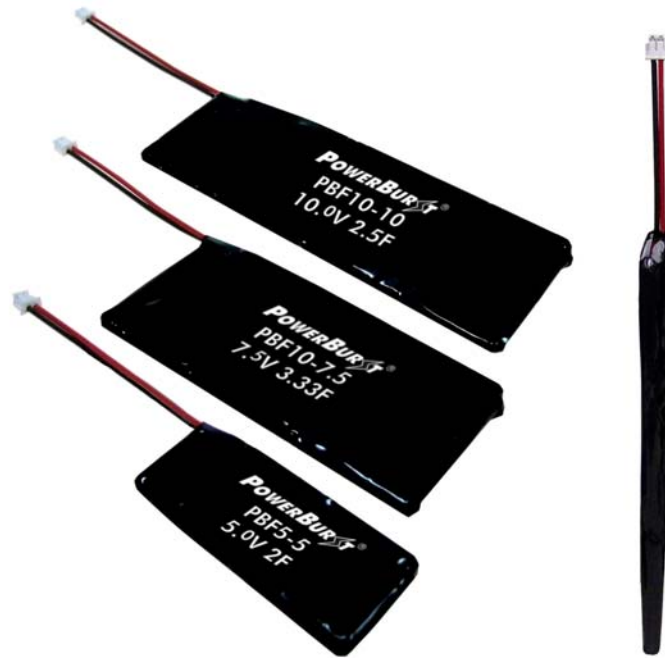


## ELECTRIC DOUBLE LAYER CAPACITOR MODULES



### FEATURES

- Ultra low profile (5.7 mm max).
- 5, 7.5 and 10V modules. Customs available.
- Active linear voltage balanced cells.
- Over 500,000 duty cycles.
- 10 year life capability.
- Hermetically sealed, thin prismatic cell design.
- Higher energy vs. electrolytic.
- Higher power vs. batteries.
- UL recognized capacitors.
- JST ZHR-2 quick connect.



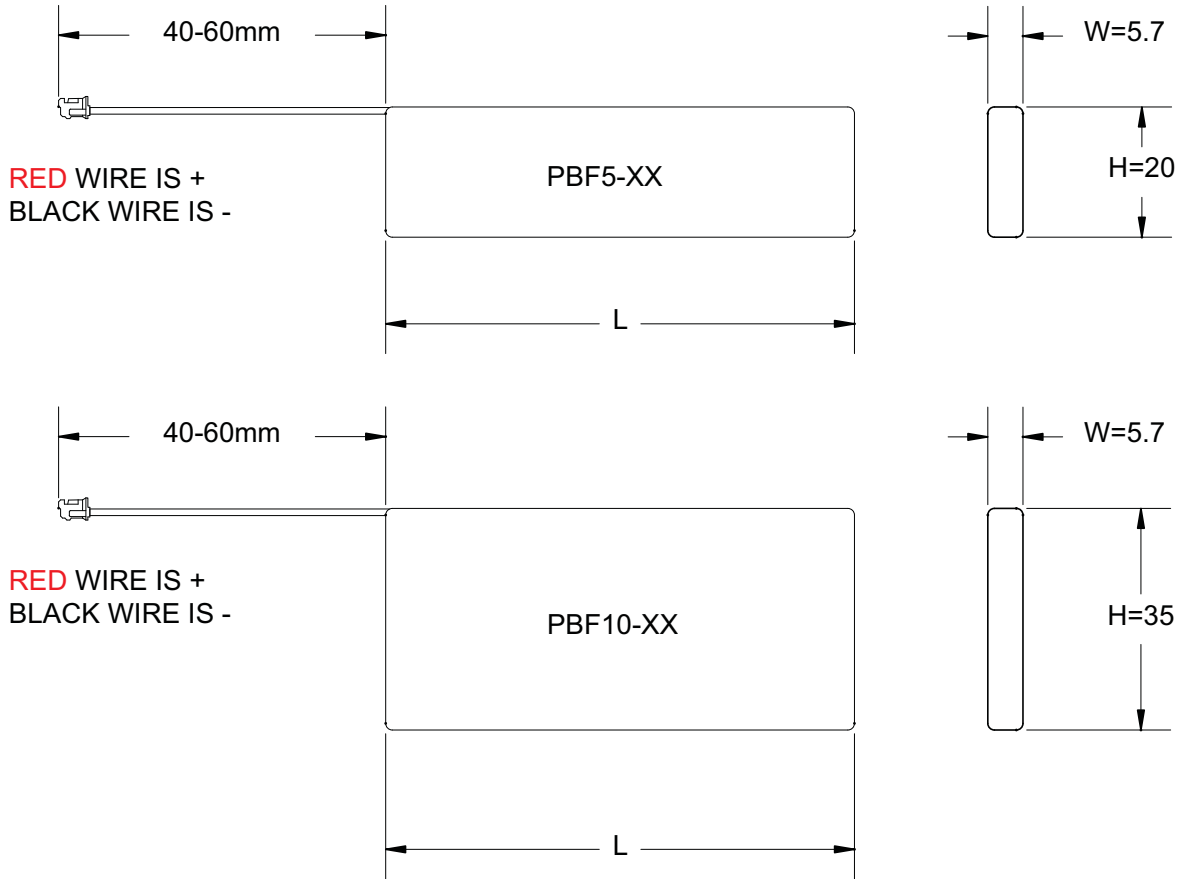
### APPLICATIONS

- Automatic meter readers.
- Solid state drives.
- Back up power for soft shut down requirements.
- Handheld electronic devices.
- Medical devices.
- Wireless transmission.

### SPECIFICATIONS

Item	Performance	
Operating Temperature Range	-40°C ~ +70°C	
Storage Temperature Range	-40°C ~ +85°C	
Rated Voltage	5, 7.5 and 10 VDC	
Capacitance	1.0F ~ 5F	
Capacitance Tolerance	±20%	
Leakage Current	PBF5 Module	0.02mA measured after 72 hours at 25°C
	PBF10 Module	0.04mA measured after 72 hours at 25°C
Temperature Characteristics	Capacitance Change	Within ±10% of initial measured value at 25°C (-40°C ~ +70°C)
	Internal Resistance	Within 2 times of initial measured value at 25°C (at -40°C)
Endurance	After 1000 hours application of rated voltage at +70°C, the capacitor shall meet the following limits:	
	Capacitance Change	Within 30% of initial measured value
	Internal Resistance	Within 2 times of initial specified value
Shelf Life	After 1000 hours storage at +70°C without load, the capacitor shall meet the specified limits for Endurance.	
Cycle Test	Modules are cycled between rated voltage and half rated voltage under constant current at 25°C (500,000 cycles)	
	Capacitance Change	Within 30% of initial measured value
	Internal Resistance	Within 2 times of initial specified value
Humidity Test	After 500 hours storage at +40 ± 2°C, 90-95% R.H., the capacitor shall meet the specified limits for Endurance	

DIMENSIONS



AVAILABLE MODULES

Module	Rated Voltage (VDC)	Capacitance (F)	ESR DC ( $\Omega$ )	ESR AC, 1KHz ( $\Omega$ )	Max Dimensions (mm)		
					L	W	H
PBF5-5	5	2.00	0.80	0.58	48	5.7	20
PBF10-5	5	5.00	0.36	0.25	48	5.7	35
PBF5-7.5	7.5	1.33	1.20	0.84	72	5.7	20
PBF10-7.5	7.5	3.33	0.54	0.38	72	5.7	35
PBF5-10	10	1.00	1.60	1.12	96	5.7	20
PBF10-10	10	2.50	0.72	0.50	96	5.7	35