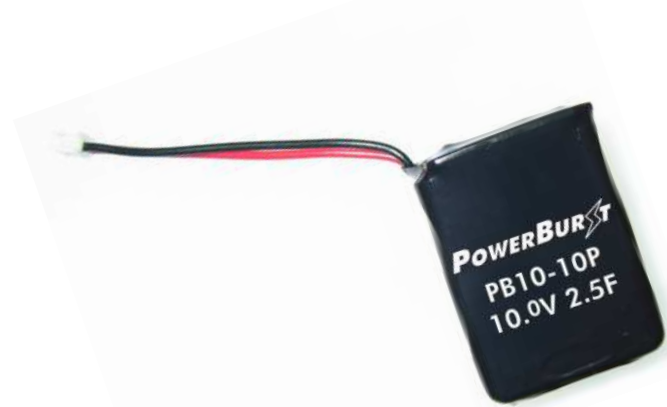


## ELECTRIC DOUBLE LAYER CAPACITOR MODULES



### FEATURES

- Passive linear voltage balanced cells.
- Over 500,000 duty cycles.
- 10 year life capability.
- Hermetically sealed, stainless steel construction.
- Higher energy vs. electrolytic.
- Higher power vs. batteries.
- UL recognized cells.
- JST ZHR-2 quick connect.
- RoHS compliant.



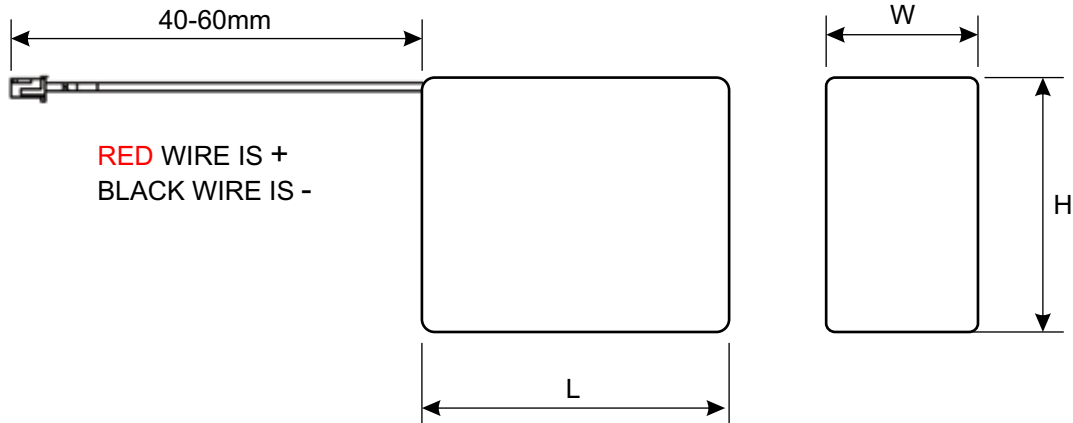
### APPLICATIONS

- Automatic meter readers.
- Automotive subsystems.
- Back up power for soft shut down requirements.
- Battery powered tools and handheld electronic devices.
- Digital cameras and other consumer electronics.
- Medical devices.
- Motor peak power shaving.
- Solar charged devices.
- Wireless transmission.

### SPECIFICATIONS

Item	Performance	
Operating Temperature Range	-40°C ~ +70°C	
Storage Temperature Range	-40°C ~ +85°C	
Rated Voltage	5 ~ 25VDC	
Capacitance	0.4F ~ 5F	
Capacitance Tolerance	±20%	
Leakage Current	PB5 Module	0.53mA measured after 72 hours at 25°C
	PB10 Module	1.00mA measured after 72 hours at 25°C
Life (at rated voltage & max operating temperature)	After 3000 hours, the capacitor shall meet the following limits:	
	Capacitance Change	20% decrease from rated value
	ESR Change	100% increase from rated value
Life (at rated voltage & 25°C)	After 10 years, the capacitor shall meet the following limits:	
	Capacitance Change	20% decrease from rated value
	ESR Change	100% increase from rated value
Cycle Life	After 500,000 cycles, the capacitor shall meet the following limits:	
	Capacitance Change	20% decrease from rated value
	ESR Change	100% increase from rated value
Shelf Life	2 years stored uncharged up to a maximum storage temperature	

DIMENSIONS



AVAILABLE MODULES

Module	Rated Voltage (VDC)	Capacitance (F)	ESR DC (mΩ)	ESR AC, 1KHz (mΩ)	Dimensions (mm)			Weight/unit (grams)
					L	W	H	
PB5-5P	5	2.00	1050	774	24	12	20	9
PB10-5P	5	5.00	410	310	24	12	34	15
PB5-7.5P	7.5	1.33	1550	1136	24	16	20	13
PB10-7.5P	7.5	3.33	590	440	24	16	34	21
PB5-10P	10	1.00	2050	1498	24	21	20	17
PB10-10P	10	2.50	770	570	24	21	34	28
PB10-12.5P	12.5	2.00	950	700	24	25	34	35
PB5-15P	15	0.67	3050	2222	48	16	20	25
PB10-15P	15	1.67	1130	830	48	16	34	41
PB5-20P	20	0.50	4050	2946	48	21	20	34
PB10-20P	20	1.25	1490	1090	48	21	34	55
PB5-25P	25	0.40	5050	3670	48	25	20	41
PB10-25P	25	1.00	2000	1500	48	25	34	68