



## ELECTRIC DOUBLE LAYER CAPACITOR MODULES

### FEATURES

- Active 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.
- 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.



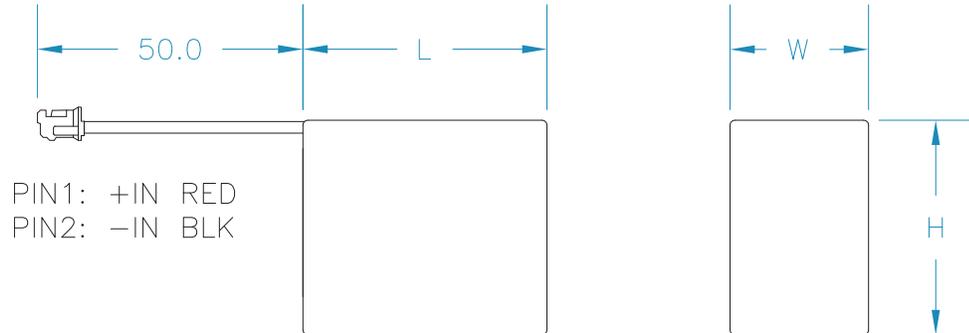
### SPECIFICATIONS

Item	Performance	
Operating Temperature Range	-40°C ~ +70°C	
Storage Temperature Range	-40°C ~ +85°C	
Rated Voltage	5 ~ 25VDC	
Capacitance	0.4F ~ 1.33F	
Capacitance Tolerance	±20%	
Leakage Current	PB5 Module	0.02mA 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
Storage Life	2 years at 25°C	

DIMENSIONS



Units = mm



AVAILABLE MODULES

Module	Rated Voltage (VDC)	Capacitance (F)	ESR DC (mΩ)	ESR AC, 1KHz (mΩ)	Dimensions (mm)			Weight/unit (grams)
					L (max)	W (max)	H (max)	
PB5-7.5	7.5	1.33	1550	1136	25	17	21	13
PB5-10	10	1.00	2050	1498	25	22	21	17
PB5-12.5	12.5	0.80	2550	1860	25	27	21	22
PB5-15	15	0.67	3050	2222	50	17	21	25
PB5-20	20	0.50	4050	2946	50	22	21	34
PB5-25	25	0.40	5050	3670	50	27	21	41