

PASSIVELY BALANCED ULTRACAPACITOR MODULES WITH LEADS AND CONNECTOR

# FEATURES

- Small size and low resistance
- Passive linear voltage balanced cells
- Quick charge and discharge
- JST ZHR-2 quick connect
- RoHS compliant
- UL recognized

#### **APPLICATIONS**

- Pulse power demand
- Hybrid battery packs
- Portable electronic devices

# TECATE PALL S.A.V. SF

**TYPE PBLL** 

### **GENERAL SPECIFICATIONS**

Item	Performance					
Operating temperature	-40°C to +65°C @ 5.4V					
	-40°C to +85°C @ 4.6V					
Storage temperature	-40°C to +70°C					
Capacitance	11F					
Rated voltage	5.4 VDC / 4.6 VDC					
Surge voltage	5.7 VDC					
Temperature characteristics	Capacitance change: Within ±5% of initial measured value at +25°C (-40°C to +65°C)					
	Internal resistance: Within $\pm$ 50% of initial measured value at +25°C (at -40°C)					
Endurance	After 1000 hours:					
(At rated voltage & max. operating	Capacitance change: within ±30% of initial rated value					
temp)	Internal resistance: Within 2 times of initial specified value					
Draighted Load life	After 10 years:					
Projected Load life	Capacitance change: Within ±30 % of initial rated value					
(At rated voltage & 25°C)	Internal resistance: Within 2 times of initial specified value					
Projected cycle life	After 500,000 cycles:					
(From rated voltage to 1/2 rated	Capacitance change: Within ±30 % of initial rated value					
voltage at 25°C)	Internal resistance: Within 2 times of initial specified value					
Shelf life	After 2 years at 25°C without load, the capacitor shall meet the specified endurance limits.					

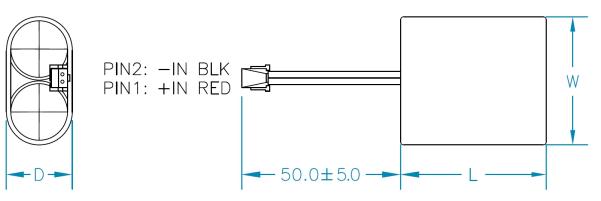
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#### DIMENSIONS



## **STANDARD PRODUCTS**

Part Number	Nom. Cap. (F)	GMV (F)*	ESR DC (mΩ)	ESR AC (mΩ) (1 KHz)	Leakage Current (mA) (72 hrs @ 25C)	Dimensions (mm)			Rated		
						D	L	W	Current (A)		
PBLL-11.0/5.4	11	9.9	160	130	0.58	13.5	38.5	26	10		
*NOTE: CMV - Cuaranteed Minimum Value											

\*NOTE: GMV = Guaranteed Minimum Value.