

# DLCAP™ Module (Radial Lead type)

Low  
Resistance

+70°C

RoHS2  
Compliant

For an easy usage of Electric Double Layer Capacitor DLCAP™, we have prepared modules (Radial lead type).

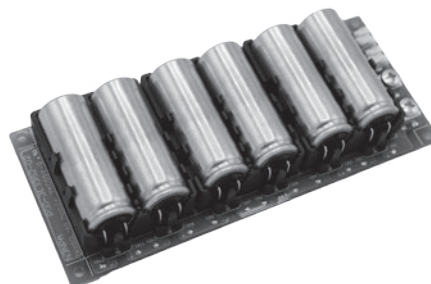
## ● Application Examples

- Electricity assist for battery
- Momentary power supply at power failure
- Back up for power source failure

## ● DLCAP™ Module

### ◆ FEATURES

- Voltage balancing circuit installed
- Over voltage detection circuit installed
- Equipped with six  $\Phi 18 \times 50\text{L}$  (50F) DKA series cells with sleeve



## ◆ SPECIFICATIONS

Items	Specifications		
Operating Temperature	-40℃ ～ +70℃		
Capacitance Tolerance	±10%, -15% (20℃)		
Temperature Characteristics	Capacitance Change	≤ ±30% of the measured value at 20℃	
	Internal Resistance Change	≤ 600% of the internal resistance maximum value given in the ratings tables (-40℃)	
Load Life Test	After the capacitors are subjected to the rated DC voltage at 70℃ for 1000 hours, the following specifications shall be satisfied when they are restored to 20℃ .		
	Capacitance Change	≤ ±30% of the initial measured value at 20℃	
	Internal Resistance Change	≤ 200% of the internal resistance maximum value given in the ratings tables	
	After the capacitors are subjected to the rated DC voltage at 60℃ for 2000 hours, the following specifications shall be satisfied when they are restored to 20℃ .		
	Capacitance Change	≤ ±30% of the initial measured value at 20℃	
	Internal Resistance Change	≤ 200% of the internal resistance maximum value given in the ratings tables	
	Bias Humidity Test	After the capacitors are left at 60℃ and 90 to 95%RH for 500 hours without voltage applied, the following specifications shall be satisfied when they are restored to 20℃ .	
Capacitance Change		≤ ±30% of the initial measured value at 20℃	
Internal Resistance Change		≤ 200% of the internal resistance maximum value given in the ratings tables	

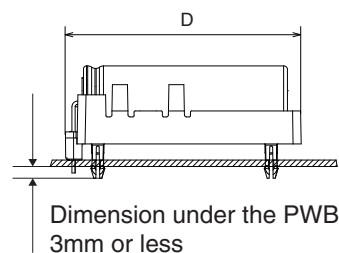
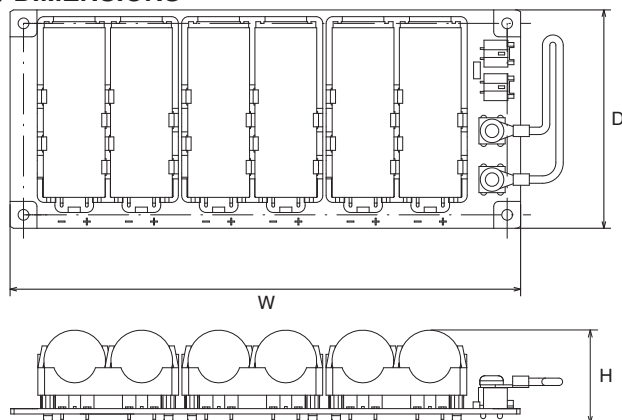
## ◆ STANDARD RATINGS

Rated Voltage [V]	Capacitance		Product Size			Internal Resistance		Weight* <sup>1</sup> [kg]	Energy Storage* <sup>2</sup> [Wh]	Part No.
	Typ. [F]	Min. [F]	W [mm]	D [mm]	H [mm]	Typ. [mΩ]	Max. [mΩ]			
15	8.3	7.1	152	65	28	74.2	87.4	0.2	0.26	MDKA150S8R3PE6111A

\* 1 Reference data

\* 2 Energy Storage (Wh) is calculated based on 「電気及び電子機器用電気二重層キャパシタの輸送に関する手引書」 (Japanese only) by JEITA.

## ◆ DIMENSIONS



## ◆ Screw Specification

Screw : M4

Tightning torque : 1.5 Nm $\pm$ 10%

## ● Series and or parallels connection of DLCAP™ Module

This module can be connected and used in series and parallel if necessary.  
If you need to connect more than 5 pieces in series please consult us.

## ● DLCAP™ Custom Module Acceptable

Customized designs for system integration are available upon request.

Please consult us for other special specifications.