

## **ELECTRIC DOUBLE LAYER CAPACITOR**

# **DKA series**









- · Increase flexibility of module design.
- $\cdot$  Space saving with smaller volume when moduled.
- · Very low DCIR even at low and high temperature.



## **♦** SPECIFICATIONS

Items	Specifications						
Operating Temperature	-40°C ∼ +70°C						
Capacitance Tolerance	±10% (K)		(25°C)				
Temperature Characteristics	Capacitance Change ≤±30% of the measured value at 20°C						
	Internal Resistance Change	≤ 600% of the internal resistance maximum value given in the ratings tables	(-40°C)				
Load Life Test	After the capacitors are subjected to the rated DC voltage at 70°C for 1000 hours, the following specifications shall be satisfied when they are restored to 20°C.						
	Capacitance Change ≤±30% of the initial measured value at 20°C						
	≤ 200% of the internal resistance maximum value given in the ratings tables						
	After the capacitors are subjected to the rated DC voltage at 60°C for 2000 hours, the following specifications shall be satisfied when they are restored to 20°C.						
	Capacitance Change ≤±30% of the initial measured value at 20°C						
	Internal Resistance Change ≤ 200% of the internal resistance maximum value given in the ratings tables						
Bias Humidity Test	After the capacitors are left at 40°C and 90 to 95%RH for 500 hours, the following specifications shall be satisfied when they are restored to 20°C.						
	Capacitance Change ≤±30% of the initial measured value at 20°C						
	Internal Resistance Change	ternal Resistance Change ≤ 200% of the internal resistance maximum value given in the ratings tables					

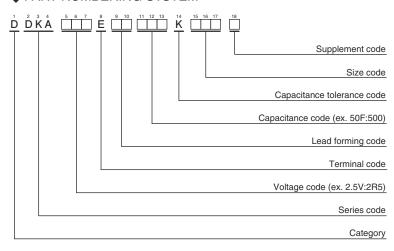
#### ◆ STANDARD RATINGS

## DKA series

Rated Voltage	Capacitance Nominal Case Size		Internal Resistance		Weight*1	<b>Energy Storage</b>	Part No.	
[V]	Typ. (rated) [F]	φ D [mm]	L [mm]	Typ. [mΩ]	Max. [mΩ]	[g]	[Wh]	Part No.
2.5	50	18	50	11.0	13.2	18	0.04	DDKA2R5ELL500KM50S

<sup>\* 1</sup> Reference data

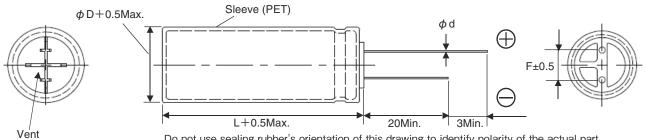
## **◆ PART NUMBERING SYSTEM**



## **ELECTRIC DOUBLE LAYER CAPACITOR**

## **DKA series**

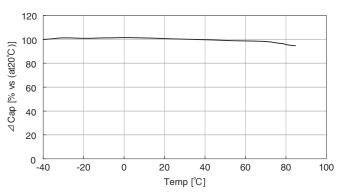
## **◆ DIMENSIONS [mm]**

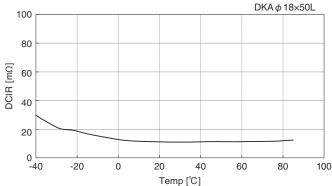


Do not use sealing rubber's orientation of this drawing to identify polarity of the actual part. Orientation of sealing rubber and safety vent are not associated.

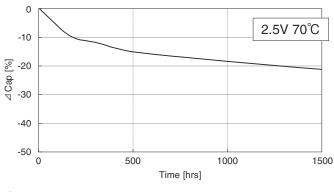
Part No.	φ	D [mm]	L [mm]	F [mm]	φd [mm]
DDKA2R5ELL500KM	50S	18	50	7.5	0.8

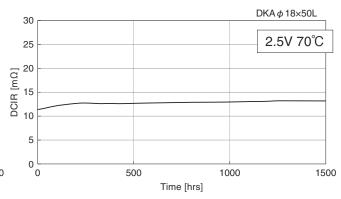
## ◆ Temperature Dependance of Capacitance & DCIR





## ♦70°C Load Life Test





#### ♠60°C Load Life Test

