

New!

DLCAP™ DKA series

Low
Resistance

-40°C

+70°C

RoHS2
Compliant



- Increase flexibility of module design.
- 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 60°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
	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°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	≤ 200% of the internal resistance maximum value given in the ratings tables

◆ STANDARD RATINGS

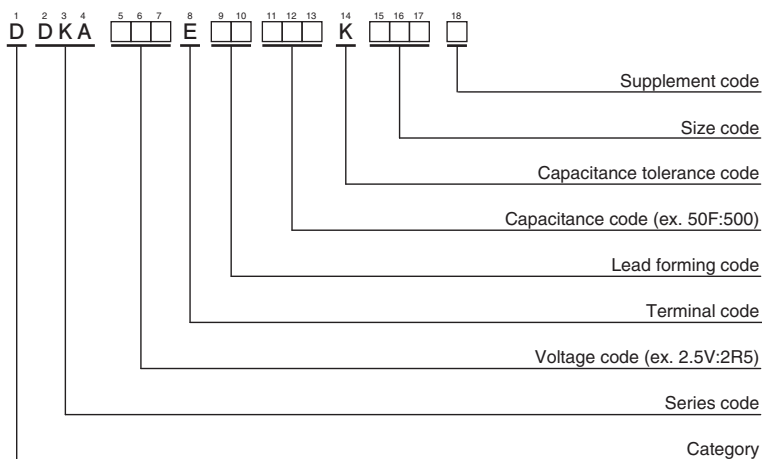
● DKA series

Rated Voltage [V]	Capacitance	Nominal Case Size		Internal Resistance		Weight* ¹ [g]	Energy Storage* ² [Wh]	Part No.
	Typ. (rated) [F]	φ D [mm]	L [mm]	Typ. [mΩ]	Max. [mΩ]			
2.5	50	18	50	11.0	13.2	18	0.04	DDKA2R5ELL500KM50S

* 1 Reference data

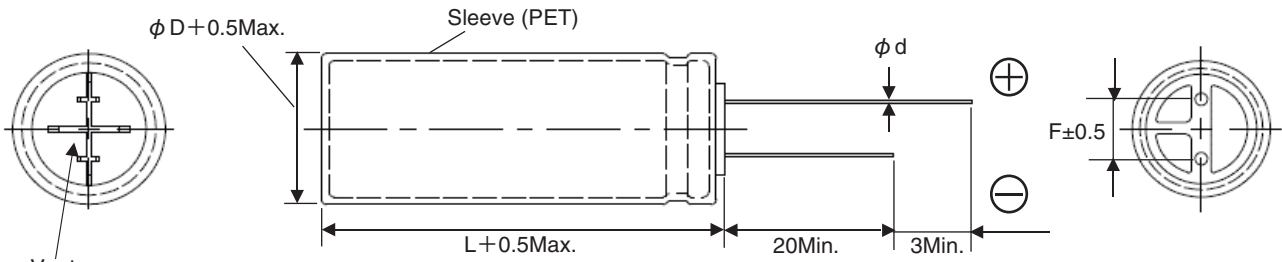
* 2 The energy storage capacity (Wh) described in this product is calculated based on "Guidebook on Transportation of Electric Double Layer Capacitors for Electrical and Electronic Equipment (JEITA)".

◆ PART NUMBERING SYSTEM



DLCAP™ DKA series

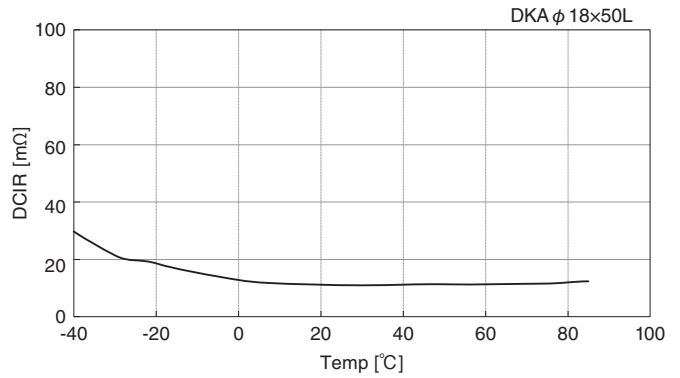
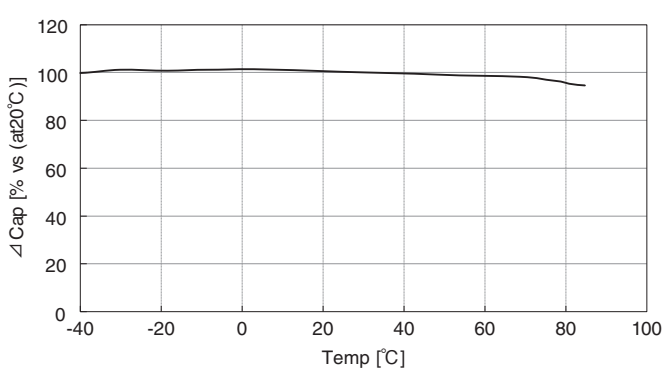
◆ DIMENSIONS (CE331) [mm]



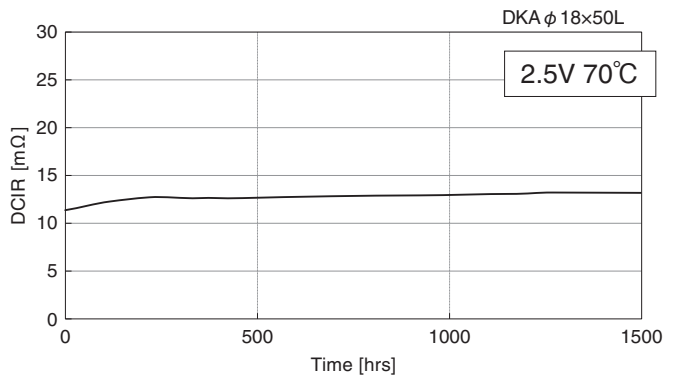
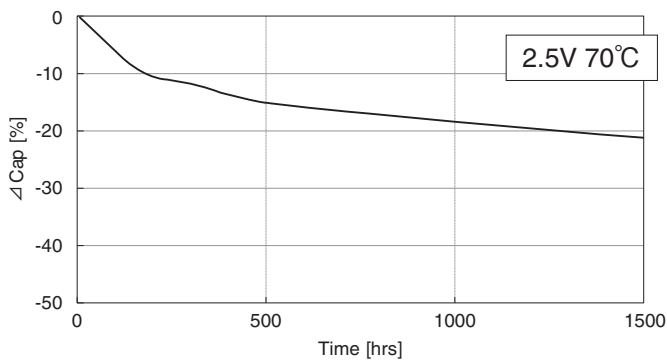
Do not use sealing rubber's orientation of this drawing to identify polarity of the actual part.
Orientation of sealing rubber and safety vent are not associated.

Part No.	ϕD [mm]	L [mm]	F [mm]	ϕd [mm]
DDKA2R5ELL500KM50S	18	50	7.5	0.8

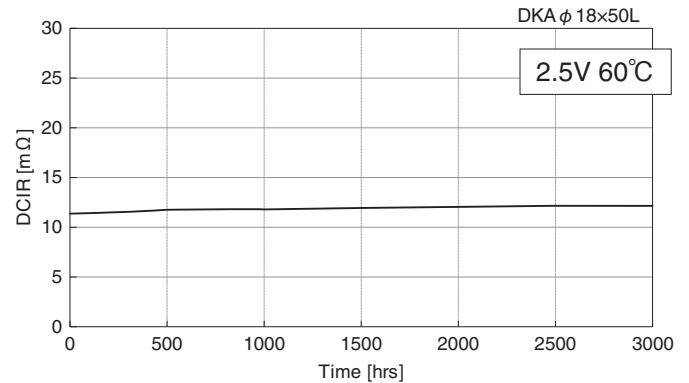
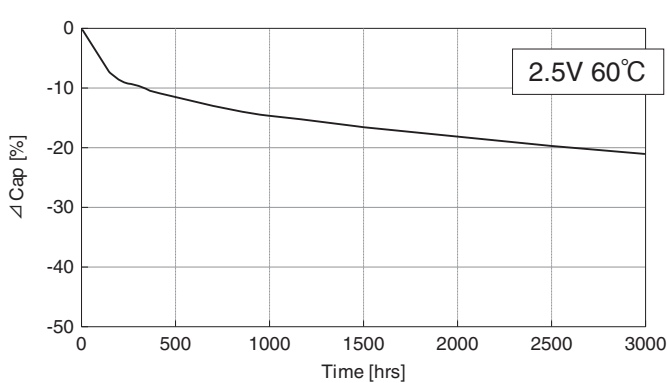
◆ Temperature Dependence of Capacitance & DCIR



◆ 70°C Load Life Test



◆ 60°C Load Life Test



Mouser Electronics

Authorized Distributor

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