

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  |   |
|------------------------------------|---|---|
| <b>Operating Temperature</b>       | -40°C ~ +70°C   |   |
| <b>Capacitance Tolerance</b>       | ±10% (K) (25°C)   |   |
| <b>Temperature Characteristics</b> | 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) |
| <b>Load Life Test</b>              | 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         |
| <b>Bias Humidity Test</b>          | 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

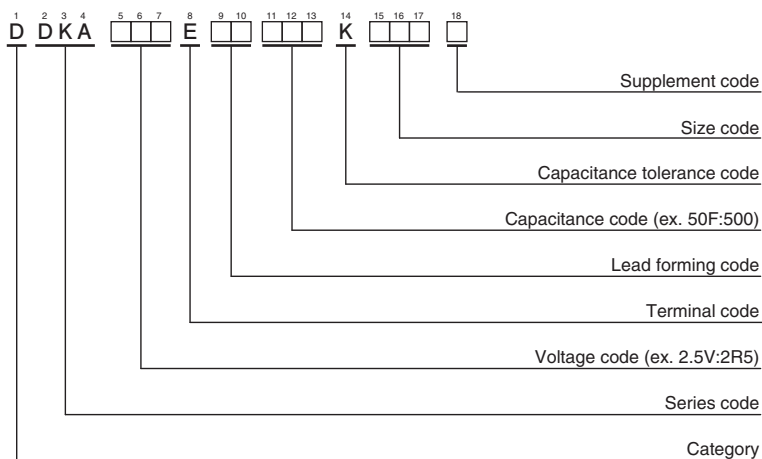
#### ● DKA series

| Rated Voltage<br>[V] | Capacitance      | Nominal Case Size |        | Internal Resistance |           | Weight* <sup>1</sup><br>[g] | Energy Storage* <sup>2</sup><br>[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

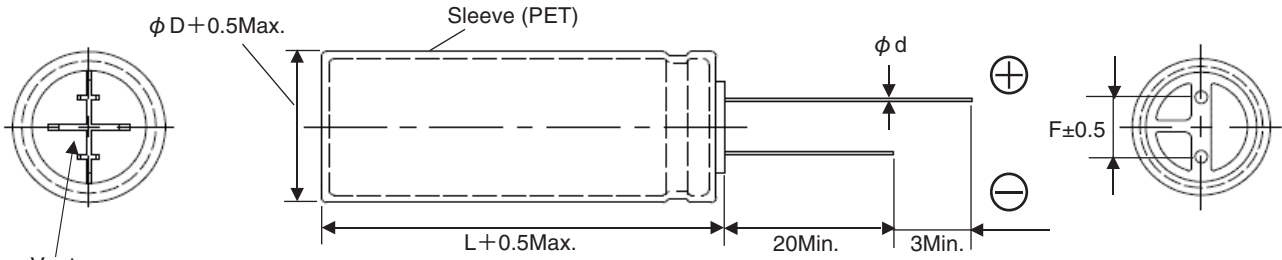
\* 2 The energy storage capacity (Wh) described in this product is calculated based on "Guidebook on Transportation of Electric Double Layer Capacitors for Electrical and Electronic Equipment (JEITA)".

### ◆ PART NUMBERING SYSTEM



DLCAP™ DKA series

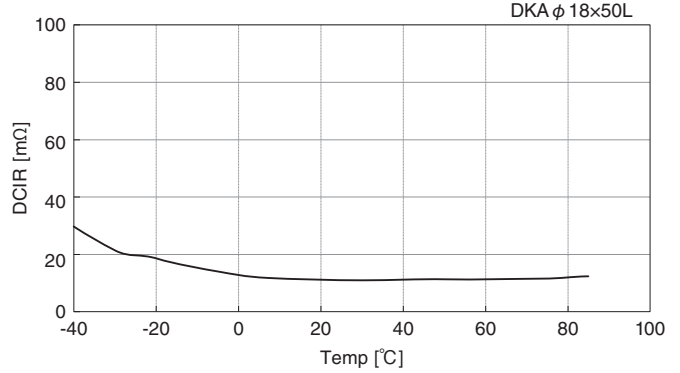
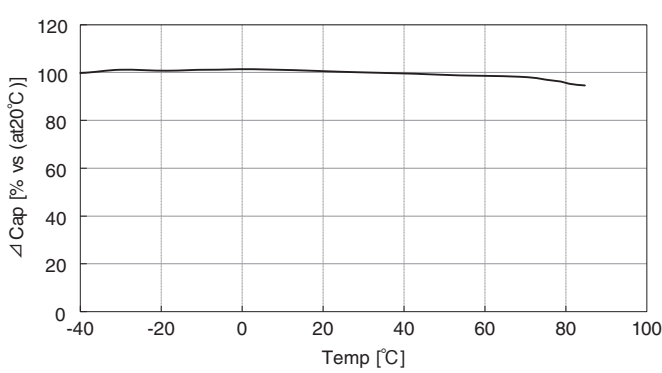
◆ DIMENSIONS (CE331) [mm]



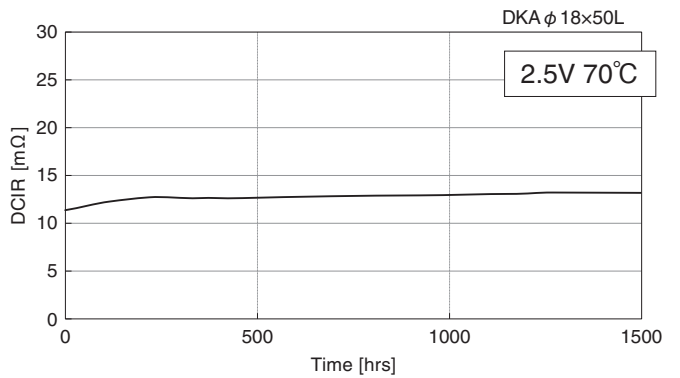
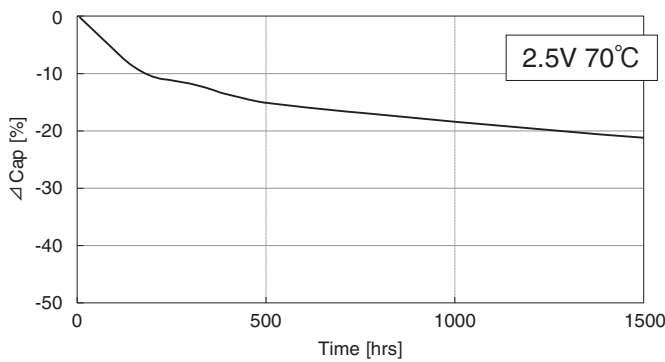
Do not use sealing rubber's orientation of this drawing to identify polarity of the actual part.  
Orientation of sealing rubber and safety vent are not associated.

| Part No.           | $\phi D$ [mm] | L [mm] | F [mm] | $\phi d$ [mm] |
|--------------------|---------------|--------|--------|---------------|
| DDKA2R5ELL500KM50S | 18            | 50     | 7.5    | 0.8           |

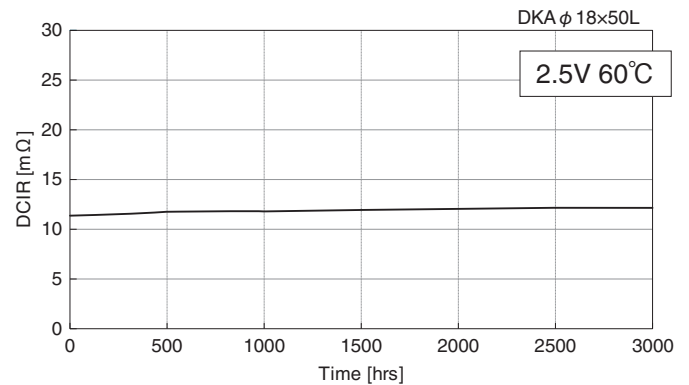
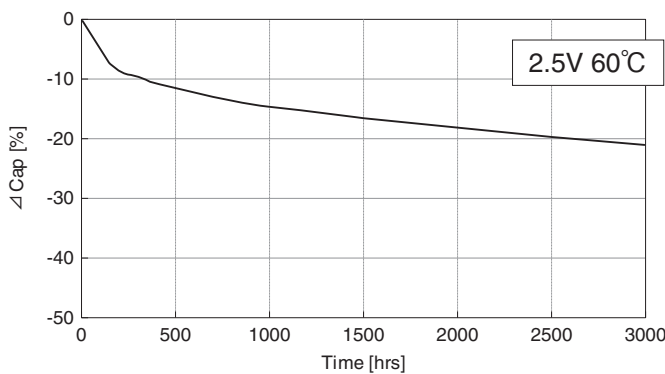
◆ Temperature Dependence of Capacitance & DCIR



◆ 70°C Load Life Test



◆ 60°C Load Life Test



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[DGH335Q2R7](#)