

Radial Lead type

# DLCAP<sup>™</sup> DKA series









- · Very low DCIR even at low and high temperature.
- · Uses highly safe electrolyte.
- · Ideal as a backup power supply for automotive electrical components.



# **SPECIFICATIONS**

Items	Specifications					
Operating Temperature	-40°C ∼ +70°C					
Capacitance Tolerance	$\phi$ 18×26L ±20%(M), $\phi$ 18×50L ±10%(K) (25					
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					
	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 s 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 60°C and 90 to 95%RH for 500 hours without voltage applied, the following specification 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	istance maximum value given in the ratings tables			

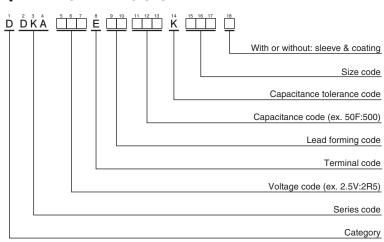
#### **♦ STANDARD RATINGS**

#### DKA series

					esistance		Energy Storage*2	Part No.	Note*3	
[V]	Typ. (rated) [F]	φ D [mm]	L [mm]	Typ. [mΩ]	Max. [mΩ]	[g]	[Wh]	Part No.	Note	
	21		26	24.8	30.0	0	0.02	DDKA2R5ELL210MM26S	with sleeve (PET)	
0.5	18	20	24.0	30.0	9	0.02	DDKA2R5ELL210MM26T	no sleeve, no coating		
2.5	50	10	50	11.0	13.2	18	0.04	DDKA2R5ELL500KM50S	with sleeve (PET)	
			50					DDKA2R5ELL500KM50T	no sleeve, no coating	

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

## **◆ PART NUMBERING SYSTEM**

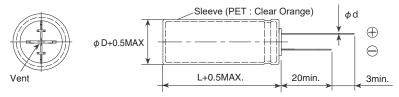


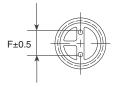
<sup>\*2</sup> Energy Storage (Wh) is calculated based on 「電気及び電子機器用電気二重層キャパシタの輸送に関する手引書」(Japanese only) by JEITA (It shows up to the second decimal place).

<sup>\* 3</sup> No sleeve no coating type and sleeve type are the basic specification.

## $\mathbf{DLCAP}^{^{\mathsf{TM}}}$ **DKA** series

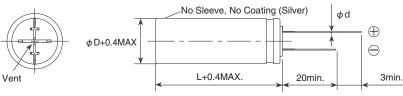
# **♦ DIMENSIONS [mm]**





F±0.5

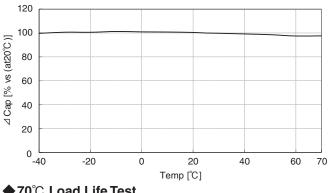
Part No.	L [mm]	F [mm]	φd [mm]
DDKA2R5ELL210MM26S	26	7.5	0.8
DDKA2R5ELL500KM50S	50	7.5	

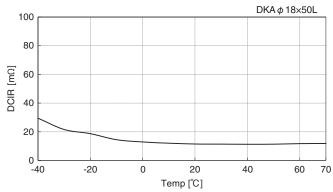


Do not use sealing rubber's orientation of this drawing to identify polarity of the actual part. Orientation of sealing rubber and safety vent are not associated.

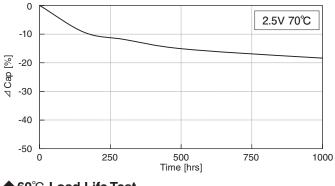
Part No.	∟[mm]	F [mm]	φd [mm]
DDKA2R5ELL210MM26T	26	7.5	0.8
DDKA2R5ELL500KM50T	50	7.5	0.0

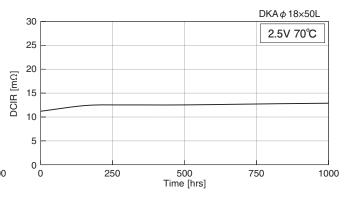
# ◆ Temperature Dependence of Capacitance & DCIR



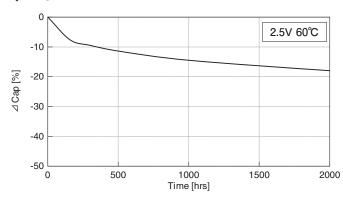


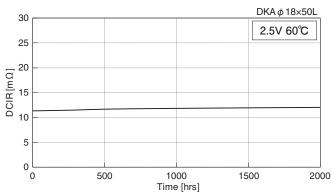
## ♦70°C Load Life Test





#### ♦60°C Load Life Test





- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.

  The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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  In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any

Introduction of Supercapacitors
Technical Notes
Precaution Statement

potential compensation.