

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℃ ～ +70℃		
Capacitance Tolerance	±10% (K)		(25℃)
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 40℃ and 90 to 95%RH for 500 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	

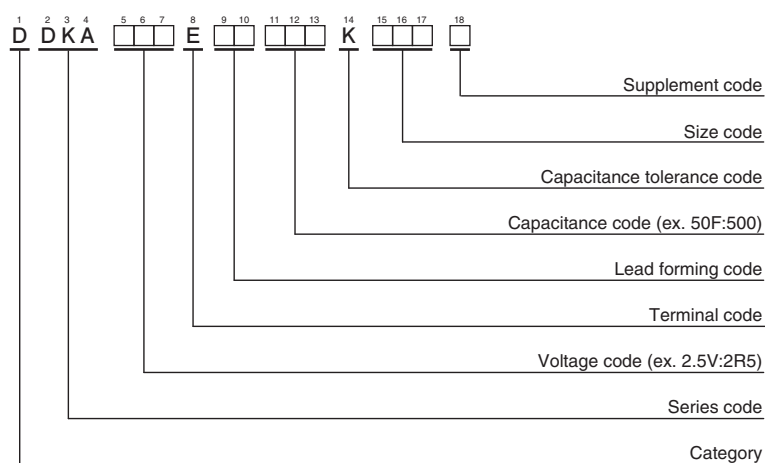
◆ STANDARD RATINGS

● DKA series

Rated Voltage [V]	Capacitance	Nominal Case Size		Internal Resistance		Weight*1 [g]	Energy Storage [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

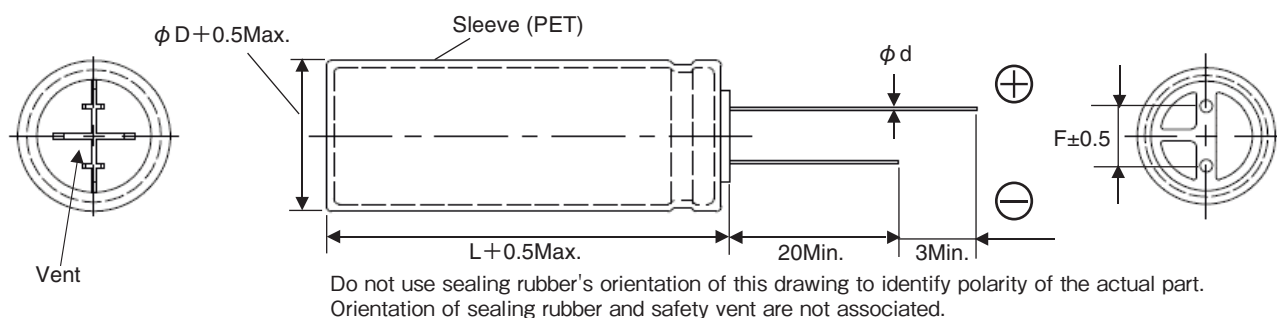
* 1 Reference data

◆ PART NUMBERING SYSTEM



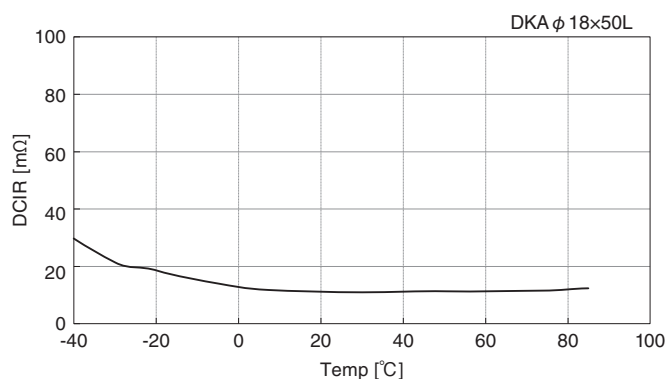
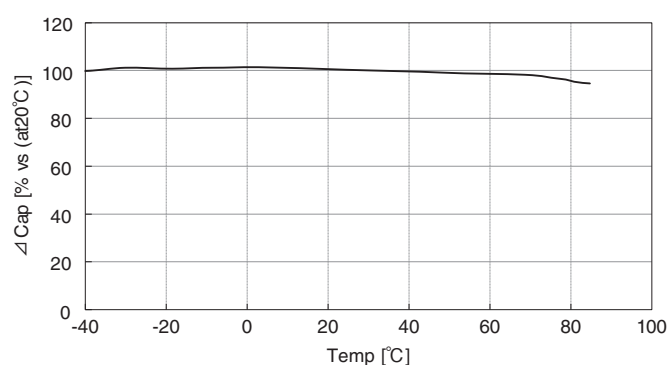
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◆ DIMENSIONS [mm]

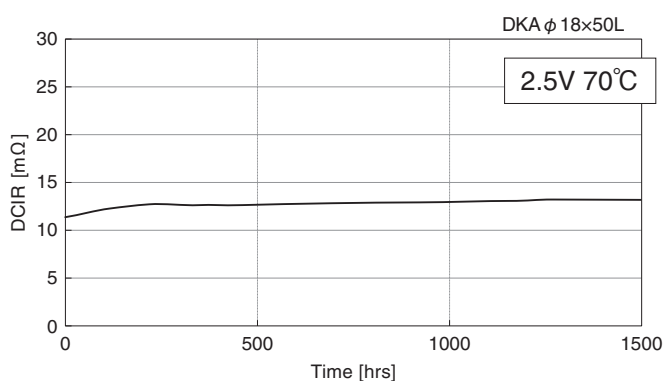
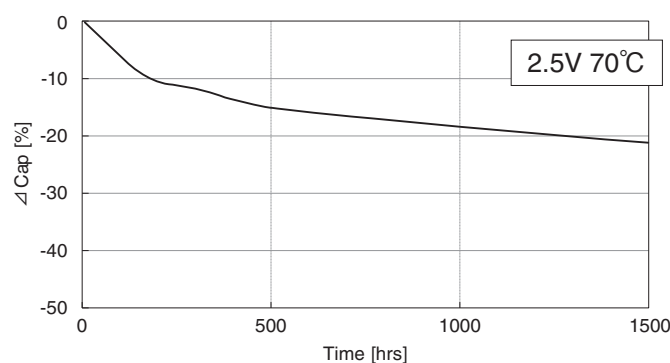


Part No.	ϕD [mm]	L [mm]	F [mm]	ϕd [mm]
DDKA2R5ELL500KM50S	18	50	7.5	0.8

◆ Temperature Dependence of Capacitance & DCIR



◆ 70°C Load Life Test



◆ 60°C Load Life Test

