

DLCAP™ DXE series

Low
Resistance

70°C

RoHS
Compliant

- Achieved low resistance and high energy density with our unique electrode process technology.
- Higher charge/discharge efficiency than batteries.
- Environment-friendly
- Suitable for electricity storage, battery assistance, short-term backups, etc.
- Also suitable for kinetic energy recapturing, start/stop application for automobile.



◆ SPECIFICATIONS

Items	Specifications		
Operating Temperature	-40℃ ~ +70℃		
Capacitance Tolerance	± 10% (K) (20℃)		
Temperature Characteristics	Capacitance Change	≤ ± 30% of the initial measured value at 20℃	
	Internal Resistance Change	≤ 1200% of the internal resistance actual value given in the ratings tables	
Load Life Test	After the capacitors are subjected to the rated DC voltage at 70℃ 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 actual value given in the ratings tables	
Bias Humidity Test	After the capacitors are left at 40℃ and 90 to 95%RH for 500 hours without voltage applied, 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 actual value given in the ratings tables	

◆ STANDARD RATINGS

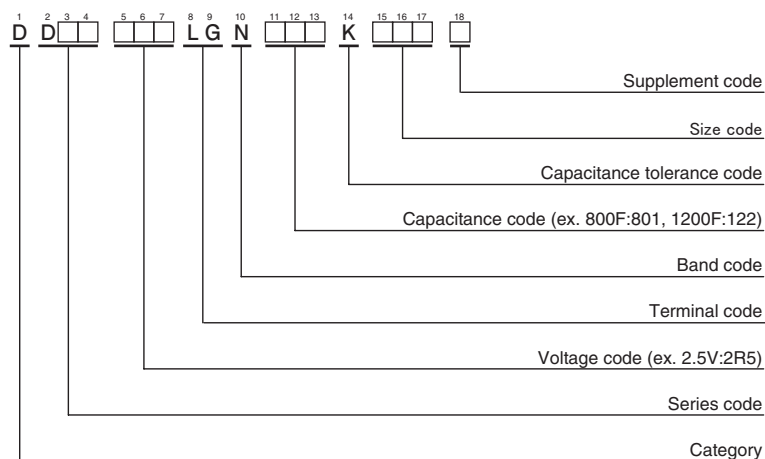
● DXE series

Rated Voltage [V]	Capacitance [F] (Min.)	Nominal Case Size		Internal Resistance		Weight* ¹ [g]	Energy Storage* ² [Wh]	Part No.
		φ D [mm]	L [mm]	Typical [mΩ]	Max. [mΩ]			
2.5	400 (360)	40	65	2.1	2.5	120	0.4	DDXE2R5LGN401KB65S
	800 (720)		105	1.1	1.3	200	0.7	DDXE2R5LGN801KBA5S
	1200 (1080)		150	0.8	1.0	280	1.1	DDXE2R5LGN122KBF0S
	1400 (1260)		150	1.1	1.3	280	1.3	DDXE2R5LGN142KBF0S

* 1 Reference data

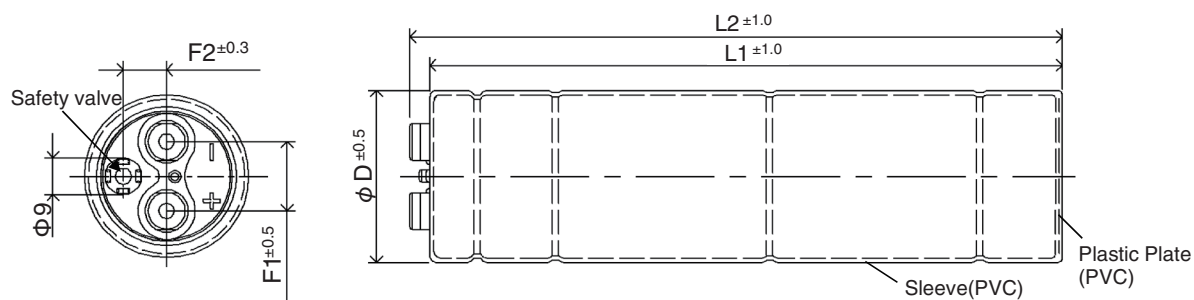
* 2 Energy storage capacity(Wh) in EDLC is indicated higher than the actual value because it is calculated based on "Guidelines for transportation of Electric double layer capacitors used in electronic and electric equipments (JEITA)".

◆ PART NUMBERING SYSTEM



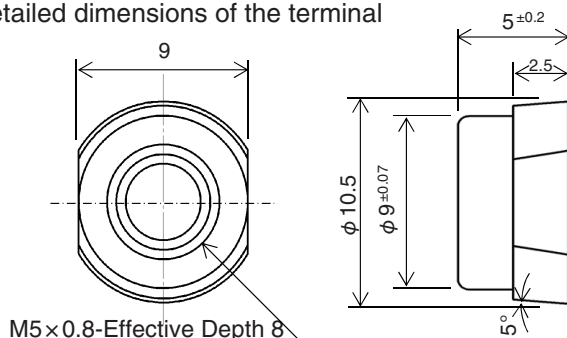
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◆ DIMENSIONS (CE331) [mm]



Part No.	φ D [mm]	L 1 [mm]	L 2 [mm]	F1 [mm]	F2 [mm]
DDXE2R5LGN401KB65S	40.4	66	71	17.0	10.5
DDXE2R5LGN801KBA5S		106	111		
DDXE2R5LGN122KBF0S		151	156		
DDXE2R5LGN142KBF0S					

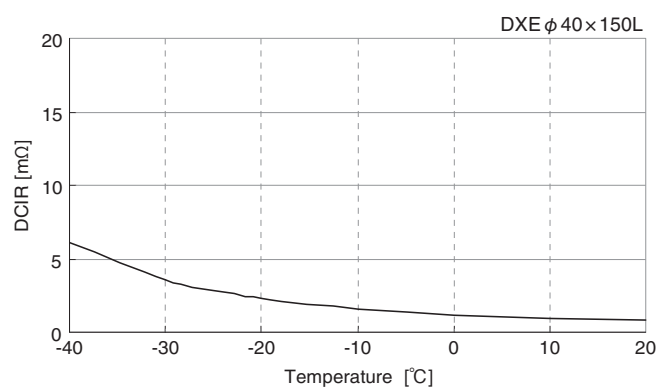
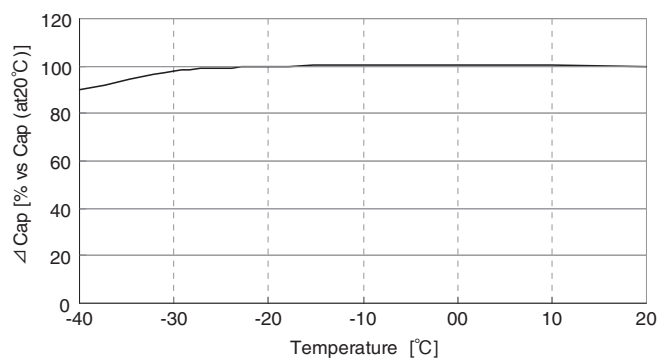
Detailed dimensions of the terminal



< Screw specification >

Plus hexagon-headed screw : M5×0.8×10
Maximum screw tightening torque : 3.23Nm

◆ Temperature Characteristics of Capacitance & DCIR



◆ 70°C Load Life Test

