ELNA

Electric Double Layer Capacitors "DYNACAP" DUK series

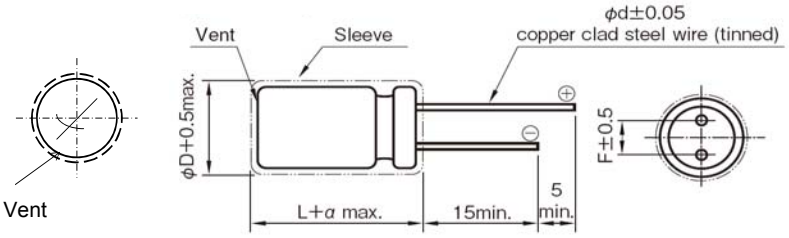
ED-8205

- **For Low Temperature (-40deg.C) & High voltage (3.0V).**
- **Low internal resistance allows boosting charge and heavy-current discharge. (ampere level).**
- **Environmentally Friendly ; without environmentally hazardous substances such as Cd or Pb.**
- **Unlike batteries ; excellent charge and discharge characteristics with no chemical reaction.**

■ Specifications

Item		Performance	
Max. operating voltage (V)		3.0	
Category temperature range (deg. C)		-40 to +65	
Extended category temperature range (deg. C)		-40 to +85 (with Linear voltage derating to 2.5V @ 85deg. C)	
Tolerance at rated capacitance (%)		-20 to +20	
Characteristics at high and low temperature	Percentage of capacitance change	-40 to +85deg. C	Within ±30% of the value at 20deg. C
	Internal resistance	-40 to +85deg. C	Less than 3 times of the value at 20deg. C
Endurance	Test temperature	65deg. C	85deg. C
	Operating voltage	3.0V	2.5V
	Test time	1000hours	1000hours
	Percentage of capacitance change	Within ±30% of the initial value	Within ±30% of the initial value
	Internal resistance	Less than 3 times of the initial specified value	Less than 3 times of the initial specified value
Shelf life	Test temperature	85deg. C	
	Test time	1000hours	
	Percentage of capacitance change	Within ±30% of the initial value	
	Internal resistance	Less than 3 times of the initial specified value	
Applicable standards		Conforms to JIS C-5160-1,-2 2009 (IEC 62391-1,-2 2006)	

■ Outline drawing



Unit : mm

D	8.0	10.0
F	3.5	5.0
d	0.6	
α	2.0	

■ Part numbering system

DUK	–	3	D	105	G3	T
series code		Max. operating voltage symbol		Rated capacitance symbol	Casing symbol	Pb-free symbol (Sn 100% finish)

■ Standard Ratings

Max. operating voltage (V)	Rated capacitance (F)	ELNA Parts No.	D×L (mm)	Internal resistance (mOhm Max.) at 1kHz	Internal DC resistance (mOhm Max.)
3	1	DUK-3D105G3T	8×12	300	1500
3	3.3	DUK-3D335G5T	8×20	90	500
3	6.8	DUK-3D685H5T	10×20	70	250
3	10	DUK-3D106H7T	10×30	55	150

(Note) Design, Specifications are subject to change without notice.
(Note) It is recommended that you shall obtain technical specifications from ELNA CO.,LTD. to ensure that the component is suitable for your intended use.
(Note) See the cautions for using of ELNA web. (http://www.elna.co.jp/en/capacitor/double_layer/attention/index.html)

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