

# DH-G series Electoric Double Layer Capacitor "DYNACAP"

ELNA®

5.5V Wider Temperature range Capacitors

GREEN

85° C

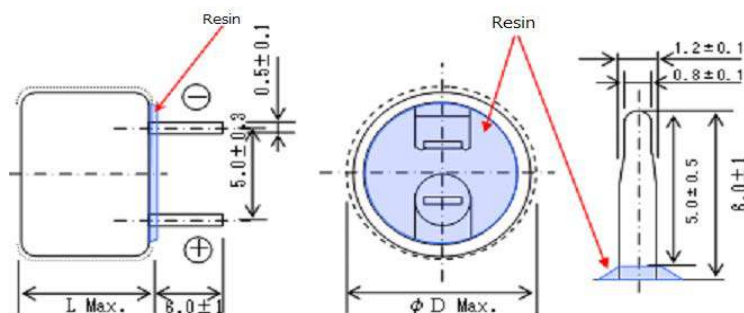
- The wetproofing is improved by wearing the resin court to the sealing part.
- Wider temperature range (-40°C to +85°C) than battery.
- $\phi 13.5 \times 9.8$  L size can encase up at 0.22F.
- Advanced in rapid charge and discharge.
- Ideal for backing up of CMOS IC's, microcomputers, RAM's, RTC's and the like used in Electric power meter, Outdoor installation equipment, Automotive applications, Industrial equipment



## Specifications

Item	Performance			
Category temperature range(°C)	-40 to +85			
Tolerance at rated capacitance(%)	-20 to +80			
Internal resistance at 1kHz( $\Omega$ )	Rated capacitance(F)	0.047	0.1	0.22
	Internal resistance ( $\Omega$ )	40	40	40
Characteristics at high and low temperature	Percentage of capacitance change	Within $\pm 30\%$ of the value at 20°C		
	Internal resistance	-40°C: Less than 7 times of the value at 20°C 85°C: Less than 5 times of the value at 20°C		
Endurance(85°C)	Test time	1000 hours		
	Percentage of capacitance change	Within $\pm 30\%$ of the initial measured value		
	Internal resistance	Within 4 times of the initial specified value		
Shelf life(85°C)	Test time:1000 hours;Same as endurance.			
Applicable standards	Conform to JIS C 5160-1 2009			

## Outline Drawing



## Part numbering system (example:5.5V0.1F)

DHL	—	5R5	D	104	GT
Series code		Max.operating voltage symbol		Rated capacitance symbol	

Part number is refer to below tabale.

## Caution for Cleaning after Soldering

- Recommended cleaning method

(1)cleaning solutions:

- CLEANTHROUGH 710M, 750H, 750L
- PINEALPHA ST-100S
- Techno Care FRW-4~17
- Isopropyl alcohol (2-propanol)

(2)Cleaning conditions:

- The temperature of cleaning solution shall be less than 60°C.
- Use immersion or ultrasonic waves within two minutes.
- After cleaning, capacitors and PCB's shall thoroughly be rinsed and dried with hot blast for more than 10 minutes. The temperature of such breeze should be less than the upper category temperature.
- After cleaning, do not keep capacitors in cleaning solution atmosphere or airtight containers.

- During cleaning, control the cleaning solution against contamination.

## Standard Ratings

Max operating voltage(V)	Rated capacitance(F)	ELNA Parts No.	$\phi D \times L$ (mm)
5.5	0.047	DHL-5R5D473GT	13.5×9.8
5.5	0.1	DHL-5R5D104GT	13.5×9.8
5.5	0.22	DHL-5R5D224GT	13.5×9.8

## NOTE

Design,Specifications are subject to change without notice.

Ask factory for technical specifications before purchase and/or use.

## ELNA CO., LTD.

3-8-11 Shin-yokohama,kouhoku-ku,yokohama-city,kanagawa,222-0033 JAPAN

TEL. +81-45-470-7254 FAX. +81-45-470-7260

# ELNA Co.,LTD.

<http://www.ena.co.jp/>