# ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

DHL



# 5.5V SMD, Wide Temperature range Capacitors

GREEN CAP

- Size :  $\phi$ 12.5×10.5mm, compatible with surface mounting.
- $\bullet$  Wide temperature range (-40 to 85°C), Low ESR.
- Unlike batteries, safe and high reliability without containing active and hazardous substance.
- Unlike batteries, excellent charge and discharge characteristics with no chemical reactions.
- Responds to temperature 260°C during the reflow peek.



Marking color : White print on an brown sleeve

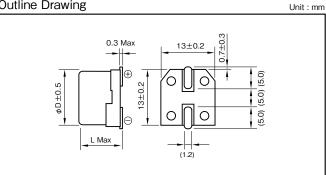
### Convert to chip

#### Specifications

Item	Performance				
Category temperature range (°C)	- 40 to +85				
Tolerance at rated capacitance (%)	- 20 to +80				
Internal resistance at 1 kHz	Rated capacitance (F)	0.047	0.1	0.22	
	Internal resistance (Ω Max.)	45	45	45	
Characteristics at high and low temperature	Percentage of capacitance change	Within $\pm 30\%$ of the value at $20^{\circ}\text{C}$			
	Internal resistance	−40°C : Less than seven times of the value at 20°C 85°C : Less than five times of the value at 20°C			
Endurance (85℃)	Test time	1000 hours			
	Percentage of capacitance change	Within ±30% of the initial measured value			
	Internal resistance	Less than four times of the initial specified value			
Shelf life (85°C)	Test time: 1000 hours; Same as endurance.				
Applicable standards	Conforms to JIS C5160-1 2009 (IEC 62391-1 2006)				

DVL

## **Outline Drawing**



Recommended land pattern size	Unit : mm
3.2   <del>◀ ▶</del>	
⊕ <b>(</b> 0°9	
4,00	

Part numbering system (example : 5.5V0.1F)						
DVL -	– 5R5	D	104	T —	R5	
Series code	Max. operating voltage symbol	Terminal code	Rated capacitance symbol		Taping symbol	

Part number is refer to following table.

## Standard Ratings

Max. operating voltage (V)	Rated capacitance (F)	ELNA Parts No.	φD×L (mm)
5.5	0.047	DVL-5R5D473T-R5	12.5×10.5
5.5	0.1	DVL-5R5D104T-R5	12.5×10.5
5.5	0.22	DVL-5R5D224T-R5	12.5×10.5

<sup>\*</sup>soldering conditions are described on page 191.