

## 5.5V SMD, Wide Temperature range Capacitors

GREEN CAP

SMD

85°C

- Size :  $\phi 12.5 \times 10.5$ mm, compatible with surface mounting.
- Wide temperature range ( $-40$  to  $+85^\circ\text{C}$ ), 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  $260^\circ\text{C}$  during the reflow peak.
- Ideal for industrial, smart meter, backing up of RTC's for surveillance camera, momentary power assistance of a battery, automotive etc.



Marking color : White print on an brown sleeve

Convert to chip

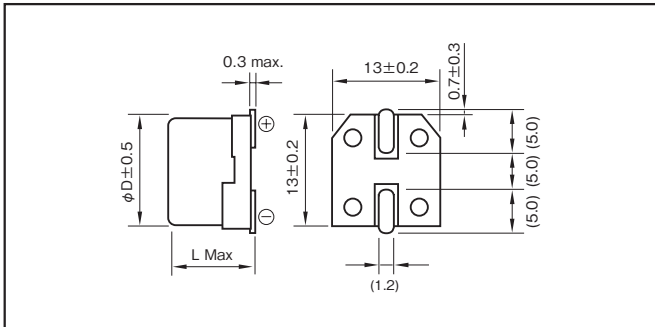


### Specifications

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 ( $\Omega$ 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	$-40^\circ\text{C}$ : Less than seven times of the value at $20^\circ\text{C}$ $85^\circ\text{C}$ : Less than five times of the value at $20^\circ\text{C}$		
Endurance ( $85^\circ\text{C}$ )	Test time	1000 hours		
	Percentage of capacitance change	Within $\pm 30\%$ of the initial measured value		
	Internal resistance	Less than four times of the initial specified value		
Shelf life ( $85^\circ\text{C}$ )	Test time : 1000 hours ; Same as endurance.			
Applicable standards	Conforms to JIS C5160-1 2009 (IEC 62391-1 2006)			

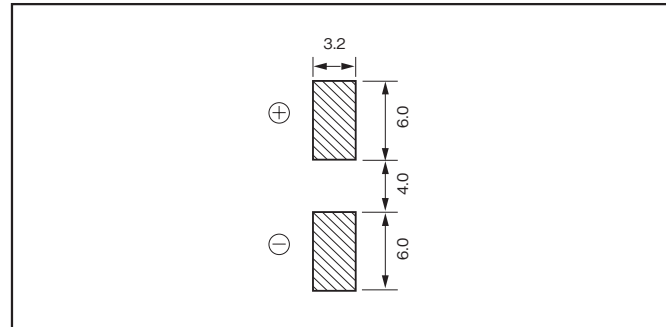
### Outline Drawing

Unit : mm



### Recommended land pattern size

Unit : mm



### Part numbering system (example : 5.5V0.22F)

DVL	—	5R5	D	224	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.	$\phi D \times L$ (mm)
5.5	0.047	DVL-5R5D473T-R5	$12.5 \times 10.5$
5.5	0.1	DVL-5R5D104T-R5	$12.5 \times 10.5$
5.5	0.22	DVL-5R5D224T-R5	$12.5 \times 10.5$

\*soldering conditions are described on page 207.