



# NESSCAP® Ultracapacitor Products

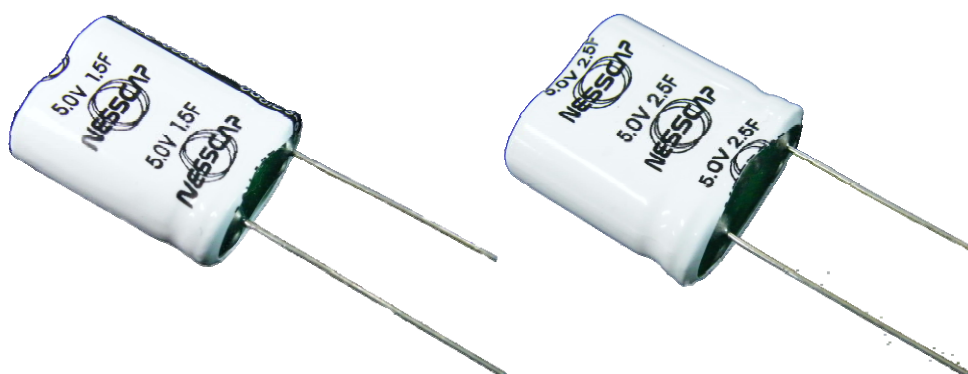
## Features

### Module

- Two lead terminals and radial design
- Compliant with RoHS requirement ( Ex : Cd, Pb)
- 2 serial connection of 2.7V/3F, or 2.7V/5F cells

## Dimension

Dimension in mm (not to scale)



Capacitance (F)	Dimension (mm)		
	D (max)	L (max)	W (max)
1.5	9.5	23	17.5
2.5	12	23	21.5

## Product & Spec.

Rated Capacitance (F)	Internal Resistance (mΩ)		Max. Current (A)	Leakage Current (mA)	Stored Energy (Wh)	Specific Energy (Wh/kg)	Weight (g)	Part Number
	AC(1kHz)	DC						
Discharge with constant current at 25°C			1 sec discharge rate to 1/2V <sub>R</sub>	72hours, 25°C	at V <sub>R</sub>	Gravimetric		
1.5	< 110	< 143	2.2	< 0.02	0.005	1.47	3.4	EMHSR-0001C5-005R0
2.5	< 53	< 69	4.4	< 0.04	0.009	1.80	5.0	EMHSR-0002C5-005R0

Rated Voltage, V <sub>R</sub>	5.0 V	
Surge Voltage	5.4 V	
Capacitance Tolerance	-10% / +20%	
Operating Temperature Range	-40 ~ 65 °C	ΔC   < 5% and ΔESR < 0.5 times of initially measured value at 25°C, respectively
Storage Temperature Range	-40 ~ 70 °C	
Life Time at RT <sup>(1)</sup>	10 years	(1)   ΔC   < 30% and ΔESR < 1 times of initially specified value, respectively and LC < specified value
Cycle Life (25°C) <sup>(1)(2)</sup>	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

※ Life time is provisional value

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