

Features

- Higher voltage
- Higher energy density
- RoHS compliant
- More safe than LiB
- Energy regeneration
- Vehicle and rail transport



Items	Characteristics		
Rated Voltage	3.8 ~ 2.2 V		
Operating Temperature Range	-30 ~ +60 °C		
Surge Voltage	4.0 V		
Capacitance Range	1000 ~ 5000 F		
Capacitance Tolerance (25°C)	-20 ~ +20%		
Temperature Characteristics	The specifications shall be met at category temperature range from -30°C to 60°C	Capacitance Change	Within 30% of the value at 25°C
		ESR	Less than 4 times of the initial specified value
High Temperature Loaded	The specifications shall be met after rated voltage applied at 60°C for 1000 hours	Capacitance Change	Within 20% of the initial value
		ESR	Less than 2 times of the initial specified value
High Temperature Storage	The specifications shall be met after storage at 60°C for 1000 hours	Capacitance Change	Within 20% of the initial value
		ESR	Less than 2 times of the initial specified value
Cycle Life	The specifications shall be met after 500,000 cycles at 25°C, cycle of charge/discharge from 3.8~2.2V	Capacitance Change	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value

Dimensions

mm

Type	A	B	C	D	E	F	G	H
A	153	136	122	55	33.5	13.5	8	5.5
B	153	136	82	35	23.5	13.5	8	5.5

Standard Ratings for HCC Series

U _R (Surge Voltage) Code	Rated Capacitance 25°C	Impedance		Self Discharge	Type	Size C×A×T	Weight	P/N
		ESR _{DC}	ESR _{AC} 1KHz					
(V)	(F)	(mΩ)	(mΩ)	(72hrs)	-	(mm)	(g)	-
3.8 (410) 3R8	1000	5.0	2.5	≥3.7	B	82×136×11	120	SCCHCC3R8108M
	2000	3.0	1.5	≥3.7	A	122×136×12	220	SCCHCC3R8208M
	3000	2.0	1.0	≥3.7	A	122×136×18	330	SCCHCC3R8308M
	5000	5.0	2.5	≥3.7	A	122×136×21	370	SCCHCC3R8508M