

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 |