

Vinatech



VinaTech, based in Korea, is a fast growing manufacturer of Electric Double Layer Capacitor (EDLC) and Hybrid Capacitor (P-EDLC) HY-CAP brand of Super Capacitors. The HY-CAP series offers high capacitance ranges from 500mF to 3000 Farad in EDLC and the Hybrid P-EDLC technology doubles the capacitance density to 800F.

Product Range

EDLCs are passive electronic components that, unlike batteries, store energy by physically separating positive and negative charges. These Low ESR capacitors may have 1/10th of the energy but deliver 10x the Power of a standard battery.

Advantages

- Low impedance, better load handling when paralleled with battery.
- Rapid charging -EDLCs charge in seconds.
- Simple charge methods - no full-charge detection is needed

EDLC Characteristics

- Rated 2.5V/2.7V/3V/5V/5.4V/6V (0.5F – 500F)
- 500,000 cycle life
- Operating Temperature
 - 2.7V: -40°C to 65°C
 - 2.5V: -25°C to 70°C

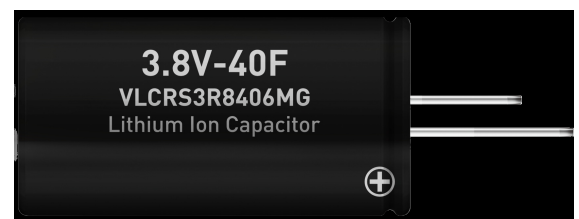


PEDLC Characteristics

- Rated 2.3V (10F – 800F)
- High power density (2 time that of EDLC)
- 100,000 cycle life
- Low current & long time backup applications

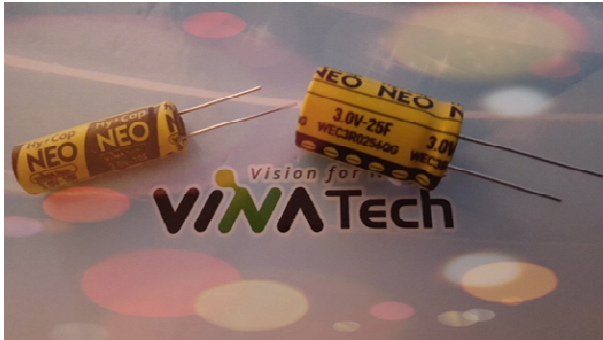
Hybrid Lithium Ion Capacitors

The Vinatech VLC ultra low ESR series offers high density and extremely low Self Discharge characteristics. Rated at 3.8V (Min 2.2V) and available in 20F, 40F, 100F & 270F. Ideally suited to Wireless sensing; RFID devices; Energy harvesting; AMR; Automotive applications; Beacons and Buoys; Medical applications and pumps.



NEW Anti-Wetting Neo Series

VINATech are rolling out a proven solution to combat effects of Extreme environments



Radial EDLCs are facing challenges when installed in equipment that regularly exceeds the recommended +65°C temperature, especially when combined with high humidity conditions.

A growing number of applications from around the globe are realising this “Wetting Phenomenon” when products in the field are returned, especially areas like the Middle East, West Africa, Central America and parts of Asia.

Applications include Automotive and Tracking, UPS, HVA, SSD and numerous AMR solutions.

VINATech’s development engineers have re-invented the EDLC technology in the 2.7V and their popular 3V series to overcome this Industry wide Wetting Phenomenon and have now exceeded over a year of constant trials with 30 second cycling at 65°C, 90%RH with no effects of Wetting. The NEO series is ready to combat affects of extreme environments.

The new series is being promoted will cover 0.5F to 100F in Radial options

- Pin for Pin compatible with standard series
- Temperature range -40~65°C (extended to 85°C when de-rated)
- Low ESR
- 2.7V and 3V options
- 500,000 cycle life
- First real Anti Wetting solution

