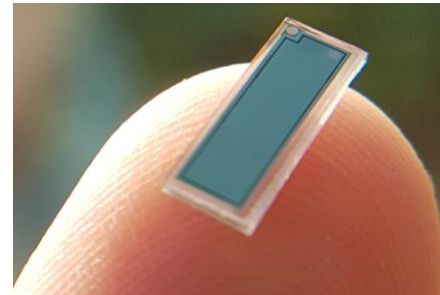


Stereax[®] M50 Summary – Miniature Solid State Battery for MedTech

Features

- ▲ Dedicated to the Needs of MedTech
- ▲ Ultra-Thin Form factor
- ▲ Miniature Footprint
- ▲ Stackable for Increased Energy Density
- ▲ Customisable Shape and Size
- ▲ All Solid-State Construction
- ▲ Fast Charge
- ▲ Thousands of Cycles
- ▲ Low Self-discharge
- ▲ No Free Lithium



Physical Properties

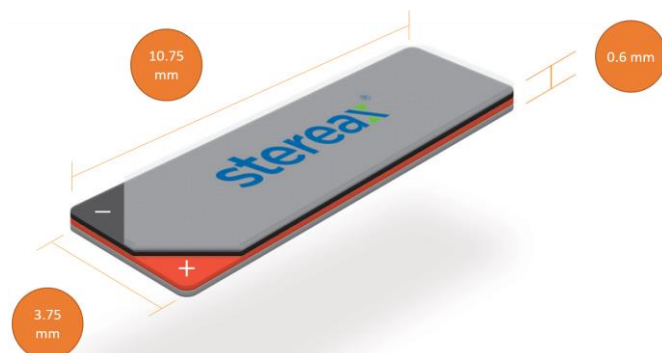
- ▲ Footprint: 10.75 x 3.75 mm
- ▲ Thickness ^a: 0.6 mm

Electrical Properties at 37°C

- ▲ Output Voltage (nominal): 3.4 V
- ▲ Capacity (nominal): 50 µAh
- ▲ Charging time to 80%: < 10 minutes
- ▲ Peak current ^b: 1 mA

a: Thickness value includes substrate. Thinner substrates are available.

b: 5% DoD; c: 0.5 ms, 3 pulses every second.



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General Description

The Stereax[®] M50 is Ilika's first solid state battery designed especially for the need of MedTech. The M50 is Ilika's smallest form factor solid state battery to date. At less than 1mm thick, it is ideal for medical applications where size and safety are critical. The M50 is built on Stereax low leakage, reliable technology, but is up to 70% smaller than other batteries in the range. The M50 is customizable to a wide range of shapes and sizes, responding to the energy density and cost constraints of the target application. Devices implanted using our safe technology benefit from a battery life of up to 10 years.

The Stereax technology platform is developed by Ilika who licenses its IP portfolio and know-how based on deposition processes and materials to systems and components OEMs and manufacturers. This format allows Ilika to respond to partners' requirements more efficiently than manufacturing standardized product lines, for an optimal outcome and greater flexibility in terms of shape, capacity, life cycle ...

Applications

- ▲ Medical implantable devices
- ▲ On-the-body devices
- ▲ Wearables
- ▲ Back-up electronics
- ▲ IoT sensors

To download the full specification, please subscribe at www.ilika.com/sign-up