

Stereax[®] M250 Rechargeable Solid State Battery: 250 μ Ah, 3.5 V

Features

- ▲ Thin Form factor
- ▲ All Solid State Construction
- ▲ Fast Charge
- ▲ High Current Pulses
- ▲ High Energy Density per Footprint
- ▲ Thousands of Cycles
- ▲ Low Self-discharge
- ▲ High Operating Temperatures
- ▲ No Free Lithium: Moisture Resistant
- ▲ Eco-friendly

Physical Properties

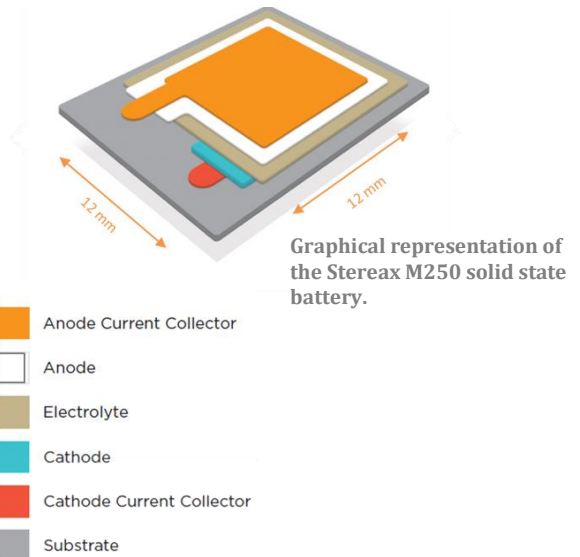
Active Area: 12 mm x 12 mm
Operating temperature: -20°C to +100°C

Electrical Properties

Output Voltage (nominal): 3.5 V
Capacity (nominal): 250 μ Ah

Applications

- ▲ Autonomous Sensor Devices
- ▲ Smart Homes (HVAC, Security, Light)
- ▲ Automotive (Infotainment, Sensors)
- ▲ Logistics (Asset Tracking)
- ▲ Medical devices (Biometric Monitoring)
- ▲ Wearables



General Description

The Stereax[®] M250 is the first of a family of solid state, rechargeable, thin film batteries developed by Ilika. It contains no liquid or polymer components and is the only solid state battery available without free lithium, either in the charged or discharged state, making it moisture resistant and appropriate for medical applications. Its low self-discharge allows it to be trickle-charged by an energy harvesting source such as vibration or a PV panel. Its high peak current enables the transmission of data using protocols such as Bluetooth Low Energy. The combination of energy harvester, transmitter, sensor and the M250 is ideal for integration into small, “fit and forget” autonomous sensor devices with multiple applications including Smart Homes, Vehicles and medical devices. The M250 is provided on a rigid substrate (650 μ m) whilst thinner substrates may also be used.

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

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