

Coin Cell Battery Holder Clip Test Fixture

Item Number: JA02



Introduction

Engineered for precision electrochemical analysis, this coin cell battery clip delivers ultra-low contact resistance, exceptional thermal endurance from -55°C to +125°C, UL94V-0 flame retardance, and robust current capacity up to 10A across extensive cycling workflows.

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Application	Description	Key Benefit
High-Rate Battery Cycling & C-Rate Testing	High-current evaluation of prototype coin cells subjected to aggressive fast-charging and dynamic pulsed discharge profiles.	Handles steady-state 5A and transient 10A currents without resistive heating or signal loss.
Temperature-Dependent Electrochemical Profiling	Sub-zero and elevated-temperature electrochemical analysis conducted inside thermal and environmental chambers.	Broad -55°C to +125°C thermal tolerance guarantees stable physical clamping without mechanical warping.
Electrochemical Impedance Spectroscopy (EIS)	Precision high-frequency and low-frequency impedance measurements requiring absolute baseline electrical stability.	Sub-milliohm ($\leq 1\text{m}\Omega$) contact resistance prevents baseline distortion and ensures accurate interfacial charge-transfer readings.
Long-Term Formation & Degradation Studies	Multi-channel, continuous multi-month retention and capacity fade monitoring for novel electrode and electrolyte formulations.	Extended mechanical durability (20,000-50,000 cycles) delivers multi-year test repeatability without contact drift.
Solid-State & Lithium-Metal Cell Characterization	Testing pressure-sensitive advanced solid-state and lithium-metal coin cell architectures requiring uniform contact interfaces.	Consistent clamping mechanics prevent localized stress concentration and preserve internal cell layer contact.
Quality Assurance & Industrial Cell Screening	High-throughput incoming inspection and batch screening of commercially produced button and coin cells in pilot-line facilities.	Rapid cell insertion and removal with heavy-duty wear resistance accelerates routine QA/QC throughput.

Parameter	Specification (JA02)
Product Item Number	JA02
Housing Color	Grey
Operating Temperature Range	-55°C to +125°C
Continuous Current Rating (Steady State)	$\leq 5\text{ A}$
Peak Current Rating (Transient)	$\leq 10\text{ A}$
Contact Resistance	$\leq 1\text{ m}\Omega$
Insulation Resistance	500V DC $\leq 1 \times 10^9\ \Omega$
Mechanical Service Life	20,000 to 50,000 cycles
Flame Retardant Classification	UL94V-0