

Mini Coin Cell Holders

New Ultra Low Profile Coin Cell Holders Introduced

MPD has invented another whole new category of coin cell battery holders called Minis, which drastically reduce the height of battery holders on PCBs. The first Mini being released is our BU2032SM-JJ-MINI-GTR, designed for use with CR2032 batteries. While other CR2032 holder solutions often rise almost 5 mm above the PCB, our new BU2032SM-JJ-MINI-GTR rises under 2 mm with an installed CR2032. This directly saves almost 3 mm in board height when compared to typical CR2032 battery holders available on the market.



A BU2032SM-JJ-MINI-GTR holding a CR2032 battery

These massive savings are achieved through putting a hole into the surface of the PCB, which allows the Mini coin cell holder to sit through the circuit board. The drastically reduced profile makes Minis the perfect solution wherever minimizing the populated board's height is a top priority. With supporting shoulders on both sides and terminals at each end, assembly is a quick, easy, and reliable process. The side shoulders also increase the grip on the coin cell, making Minis perfectly suited for portable and hand held devices.

Minis are built for reliability, with gold-flashed, nickel-plated phosphor bronze contacts that resist corrosion. The dual pressure contacts offer low electrical resistance and resistance to intermittent connections, while the recurved positive contacts provide extra retention on the coin cell battery. The lightweight LCP base piece of the holder is extremely strong, and can easily withstand temperatures of up to 280°C for modern, lead-



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an ISO 9001 manufacturer

free reflow soldering. Additionally, the LCP has excellent chemical resistance and can withstand repeated sterilizations by standard methods used in medical device assembly, including gamma and electron beam, ethylene oxide, and hot steam or hot air processes. The LCP used is also halogen-, PFOS-, and PFOA-free, as well as SVHC, REACH, RoHS, and WEEE compliant – meaning that Minis meet global environmental regulations.

While the BU2032SM-JJ-MINI-GTR only holds CR2032 batteries, design work has already begun on Minis for other coin cell sizes, and a full product line will soon be released. CR2032 batteries are extremely popular throughout the world, as they offer approximately 220 mAh of power and are quite small, making them perfect for circuits with low power requirements.

Minis are particularly suitable for automotive products, handheld electronics, key fobs, and medical products. Any applications which demand the highest reliability will find Minis to be more than up to the task, as we have tested them for 1 meter falls onto concrete with no battery ejection, as well as for a high resistance to shocks and vibrations. Minis amazingly do all of this while also providing the lowest profile CR2032 holder available on the market.

Quick Facts

- Packaged on tape and reel for automated systems
- Requires a hole in the PCB for holder to drop into
- Eliminates cost of dense foam above the battery and associated parts and labor through high grip contacts
- Lower profile than any other competing products
- Has less than a 2 mm height above the PCB
- List price for BU2032SM-JJ-MINI-GTR starts at \$0.47 per unit for 5,000 units, with volume discounts available
- Delivery is normally from distributor stock, or after a short waiting period

For More Information

www.batteryholders.com/minis.php

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