

CR2032

Coin cell connection guide

DESIGN GUIDE

A large number of today's electronics devices use coin cell batteries (aka push-button batteries). These batteries act as the main power source for small, slim portable applications, safety and alarm systems, or other electronic equipment where low wattage (typically less than 2 Watts) is needed. Coin cell batteries are also used as backup power supplies in electronic devices to support the RTC (real time clock) and other CMOS RAM data when power is removed. Some typical applications are listed below.

TYPICAL COIN CELL APPLICATIONS

- » Alarm systems
- » GPS
- » Computers
- » Intelligent Tagging
- » Medical Devices
- » Vending Machine
- » Remote Controls
- » Mobile Radio
- » Metering Systems

Avnet Abacus offers a complete solution for this application by offering battery connectors from Tyco Electronics and CR2032 batteries from a variety of suppliers.



Tyco Electronics' Top Load Battery is a high reliable receptacle for coin-cell CR2032 batteries. These batteries are used as battery back-ups in computers to store the RTC (real time clock) and other CMOS RAM data when the computer is not turned on. It can also be used in a variety of other electronic equipment needing a compact low wattage (typically less than 2 Watts) battery source.

TYCO ELECTRONICS BATTERY CONNECTOR PRODUCT FACTS

- » Accepts CR2032 Lithium Ion Battery Cells
- » Low-profile horizontal or vertical orientation with solder tail or SMT terminations
- » Designed for plated through hole (PTH) soldering and surface mount (SMT) soldering
- » Self-ejecting design allows battery to be removed without tools
- » Available in tube, tray, or reel packaging options.



1775485-X BUTTON BATTERY HOLDER CONNECTOR

Product Highlights:

- » 3 Positions
- » Vertical Mount Angle
- » Through Hole on Printed Circuit Board
- » Height Above PC Board = 18.50 mm
- » Available in Black (1775485-1) or Blue (1775485-2)
- » Less PCB space than horizontal connectors



6339488-1 BATTERY INTERCONNECTION SYSTEM

Product Highlights:

- » 2 Positions
- » Vertical Mount Angle
- » Through Hole on Printed Circuit Board
- » With Mounting Holes
- » Height Above PC Board = 22.94 mm
- » Less PCB space than horizontal connectors

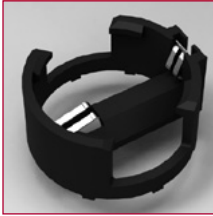
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796136-1 BATTERY INTERCONNECTION SYSTEM

Product Highlights:

- » 2 Positions
- » Horizontal Mount Angle
- » Surface Mount on Printed Circuit Board
- » Easier Battery Removal



1734178-1 BATTERY INTERCONNECTION SYSTEM

Product Highlights:

- » 2 Positions
- » Horizontal Mount Angle
- » Through Hole on Printed Circuit Board
- » Easier Battery Removal



120591-1 BATTERY INTERCONNECTION SYSTEM

Product Highlights:

- » 2 Positions
- » Horizontal Mount Angle
- » Through Hole on Printed Circuit Board
- » Easier battery removal



PRIMARY LITHIUM BUTTON CELL BATTERIES

Avnet Abacus offers CR2032 Button Cell Batteries from the following suppliers.



Product Highlights:

- » Industry standard UL recognition ensures safety
- » Operation over a wide temperature range
- » Flat discharge profile under low to medium rate applications
- » Low self discharge (less than 1% per year at RT)
- » Superior shelf life and operational life (Up to 10 years and more)

Manufacturer	Part Number	Dimension (mm)	Voltage (V)	Capacity (mAH)	Weight (g)
Dubilier	YOBCR2032	20 x 3.2	3.0	200	2.8
Panasonic	PICCR2032BN	20 x 3.2	3.0	220	3.1
Varta	VAR6032101501	20 x 3.2	3.0	230	2.8

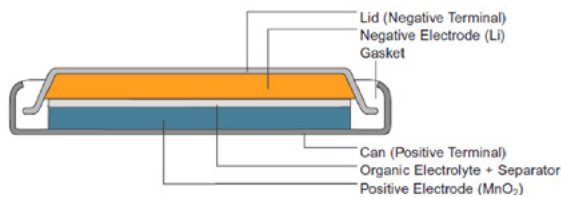


Figure 1 - Typical Construction of a Lithium Button Cell