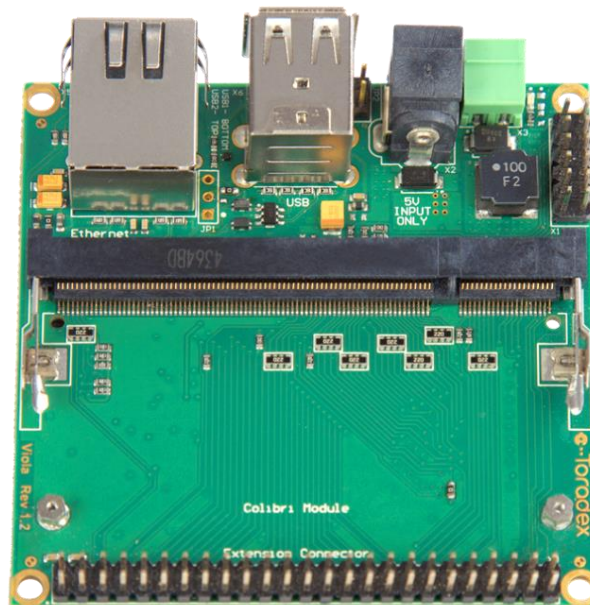




Viola Carrier Board Errata Document



Document Revision History

Date	Doc. Rev.	Notes
2017-01-25	Rev. 1.0	Initial Release
2017-08-30	Rev. 1.1	Added note regarding battery holder spring contact

Overview

Errata #1: Battery Holder: Negative terminal of the coin cell does not make contact with the Ground (GND) pad of the battery holder (BAT1)	4
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Errata #1: Battery Holder: Negative terminal of the coin cell does not make contact with the Ground (GND) pad of the battery holder (BAT1)

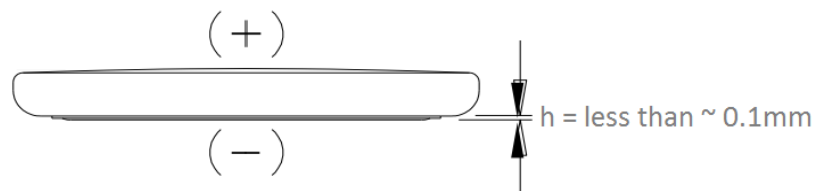
Affected Version: **Viola Carrier Board V1.2A**
Viola Plus Carrier Board V1.2A

Fixed in: **Viola Carrier Board V1.2B**
Viola Plus Carrier Board V1.2B
Please note that the next product revision is not scheduled.

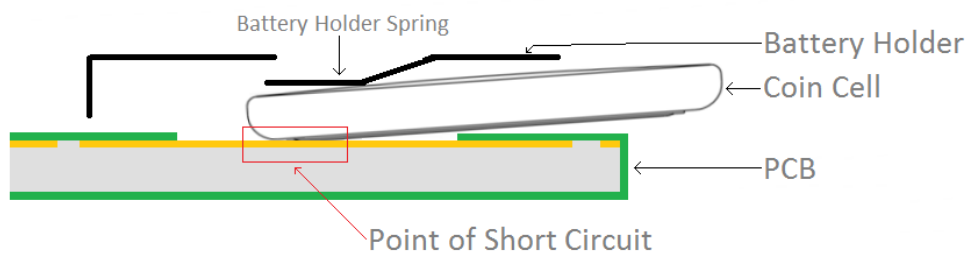
1.1 Description

The diameter of the Ground (GND) pad of the battery holder is 8mm. If a coin cell with negative terminal diameter larger than ~ 8.5mm is inserted into the battery holder (BAT1) on the Viola carrier board, the negative terminal of the coin cell does not make contact with the Ground (GND) pad of the battery holder (BAT1) due to the solder mask thickness.

With few batteries in which the gap/clearance between battery negative terminal contact and positive terminal contact on the bottom side of the battery is too small (as shown in figure 1), the battery may tilt and cause short-circuits if the battery is not inserted completely (as shown in figure 2).



(Figure 1)

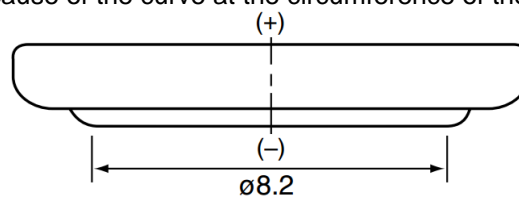


(Figure 2)

1.2 Workaround

Following are the possible workaround:

- 1) Use Maxell CR1220 coin cell: Coin cell negative terminal diameter is 8.2mm. Even though the negative terminal diameter of the coin cell is large than the diameter of the Ground (GND) pad of the battery holder, the negative terminal of the coin cell makes contact with the Ground (GND) pad of the battery holder because of the curve at the circumference of the coin cell negative terminal.



(Figure 3)

- 2) Carefully add solder paste to the Ground (GND) pad of the battery holder (BAT1).

Note:

The spring contact on the top side of the battery holder sets/bends based on the battery thickness.

In case a thicker battery (like BR1225, 2.5mm thickness) is inserted first, the spring contact will set and later if the battery is replaced by a thinner battery (like BR1220, 2.0mm thickness). The battery holder will not hold the replacement battery firmly.

Customers are advised to not to use thinner battery after using the thicker battery with the battery holder (BAT1).

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