

Murata WLAN Module Application Note

P/N: LBWB1ZZYDZ-683

The revision history of the product specification

Issued Date	Revision Code	Revision Page	Changed Items	Change Reason
Apr.18.2014			First Issue	

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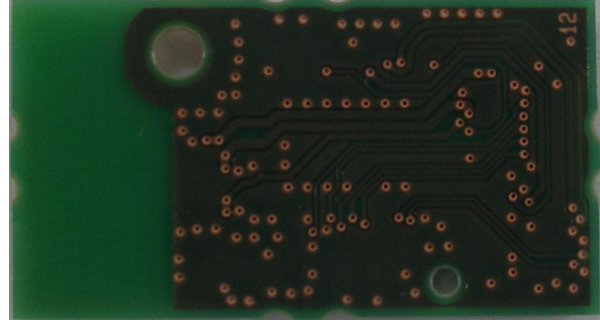
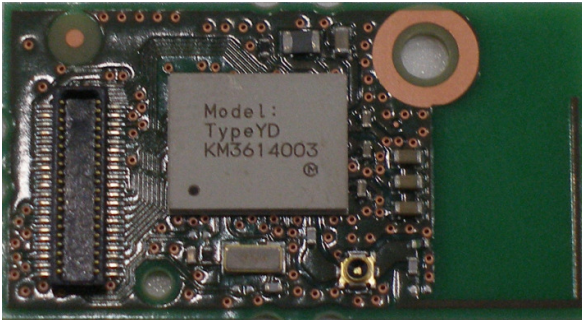
Please be aware that an important notice concerning availability, standard warranty and use in critical applications of Murata products and disclaimers thereto appears at the end of this specification sheet.

1. Introduction

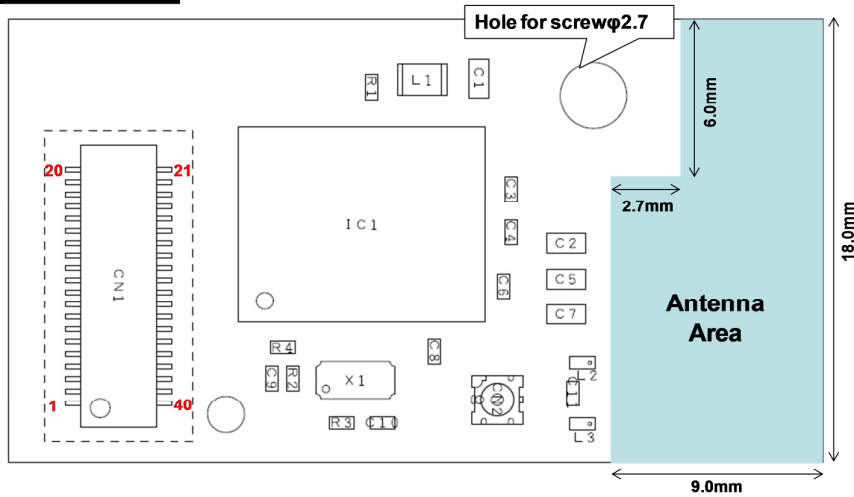
This document details the layout and design guidelines to be used by customers who selected the LBWB1ZZYZDZ.

2. Module Structure

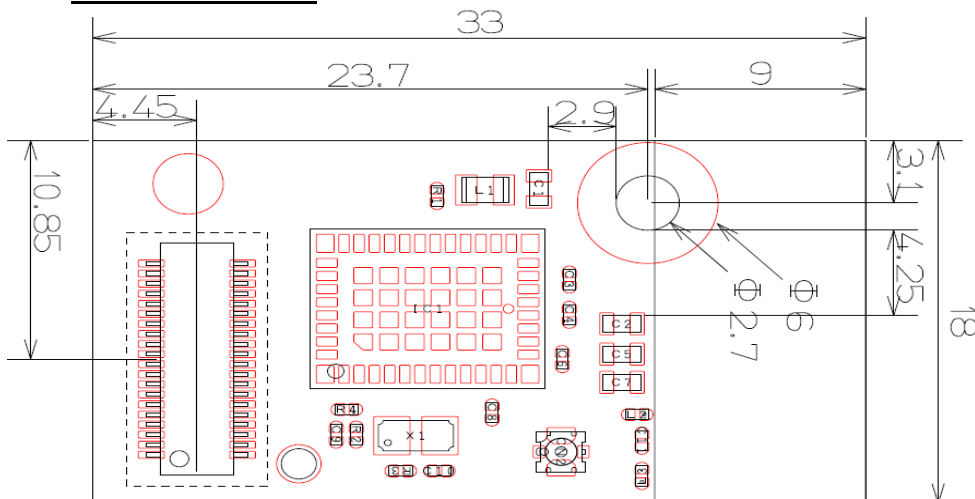
2.1. Module appearance



2.2. Module layout



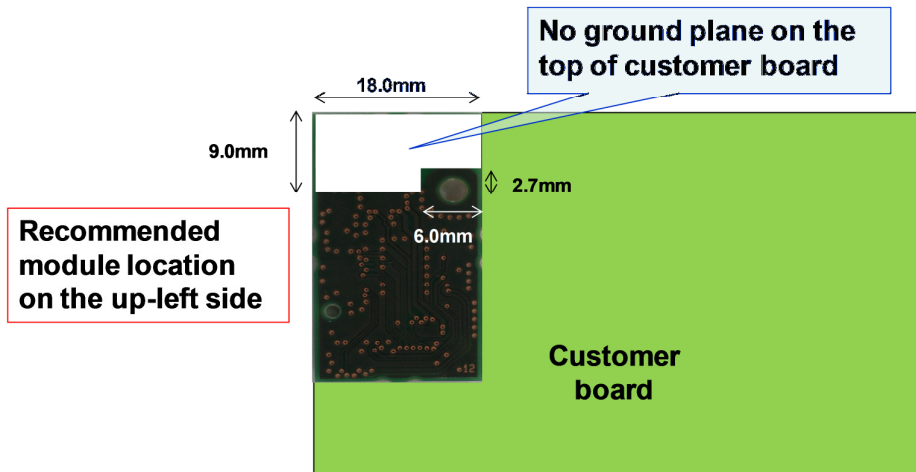
2.3. Module Dimension



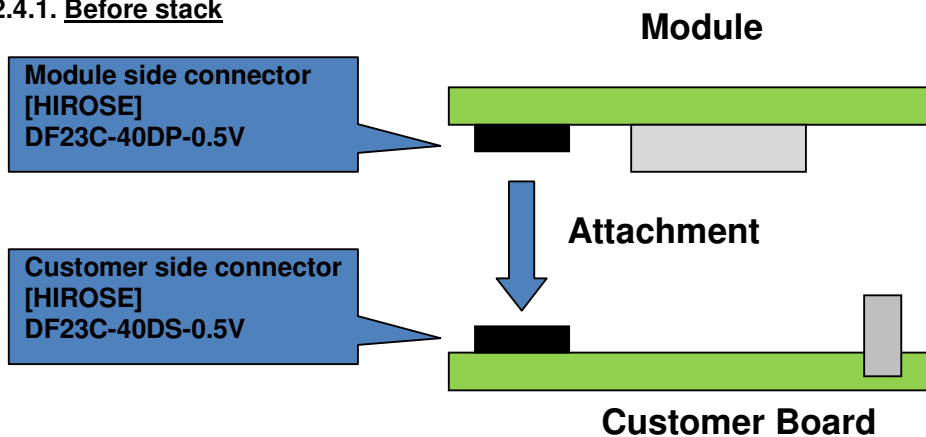
2.4. Module arrangement

We recommend the following for the layout.

- Place the module on the left-up side corner of board.
- Any components and traces should not be placed under the module area
- Do not place metal components around antenna.
- No pattern on the top of customer board side of module antenna as below picture.
- Keep more than 3mm between antenna and frame of your product, even it is plastic

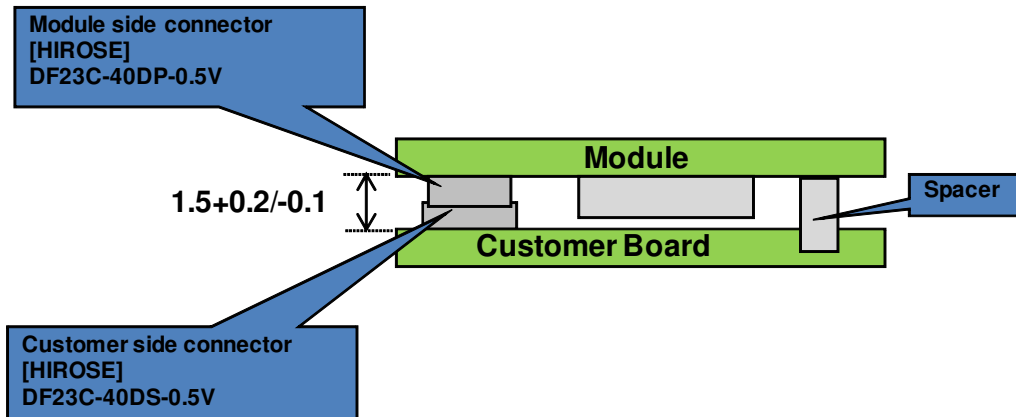


2.4.1. Before stack



2.4.2. After stack

Stacking height is 1.5mm typical.



2.4.3. Spacer Information

In the case of substrate thickness over 0.8mm

- P/N:TH-0.8-1.5-M2.
- <http://www.mac8sdk.co.jp/mac8/parts/TTT/th08.html>

In the case of substrate thickness over 1.6mm

- P/N:TH-1.6-1.5-M2 or TH-1.6-1.5-M2.5
- <http://www.mac8sdk.co.jp/mac8/parts/TTT/th16.html>

If have no mac8 spacer, any 1.5mm height's spacer. is available to use