Product Change Notification

PCN #: 9A-2020 *DATE: 14th September 2020*

1 Products Affected

Laird Part Number	Description
451-00001	Module, BL654 Series, Integrated Antenna – Tape / reel
451-00002	Module, BL654 Series, External Antenna – Tape / reel
451-00001C	Module, BL654 Series, Integrated Antenna – Cut tape
451-00002C	Module, BL654 Series, External Antenna – Cut tape
455-00001	Development Kit, BL654 Series, Integrated Antenna
455-00002	Development Kit, BL654 Series, External Antenna

2 Description of Changes

The BL654 Series of modules and associated development kits utilise the Nordic Semiconductor nRF52840-QFAA silicon. Starting from hardware revision code R3.0 listed on each Laird Connectivity module's product label, Laird will be implementing a new shield can design on all modules in the series.

The new shield can has been implemented to improve potential depression of the shield can onto two components located on the edge of the module, in lower clearance enclosure designs.

There is no Form, Fit, Function, Quality or Reliability change in this PCN.

3 Reason for Change

The BL654 Series has been modified to improve potential depression of the shield can onto two components located on the edge of the module, in lower clearance enclosure designs.

4 Anticipated Impact of the Change

- None

5 Method of Identifying the Changed Product

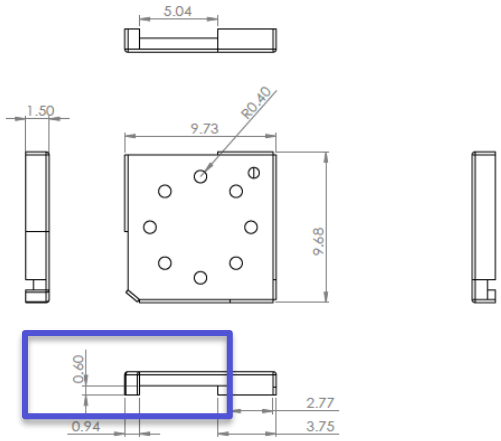
The change can be identified by reviewing the *Hardware Revision Code* number that is present on the individual module, reel label and carton label. The images below identify where this 'Hardware Revision Code' is located on each of those labels.

A Hardware Revision Code that shows as R2.0 indicates that the initial shield can design was utilised in manufacturing.

A Hardware Revision Code that shows as R3.0 indicates that a new shield can design was utilised in manufacturing

5.1 Shield Can Change

When the module is orientated vertically, with the antenna / antenna port at the top of the module, the shield can change is along the right-hand side of the shield can wall. Only one section of the shield can wall has been changed to increase clearance by 0.4mm, as highlighted below.



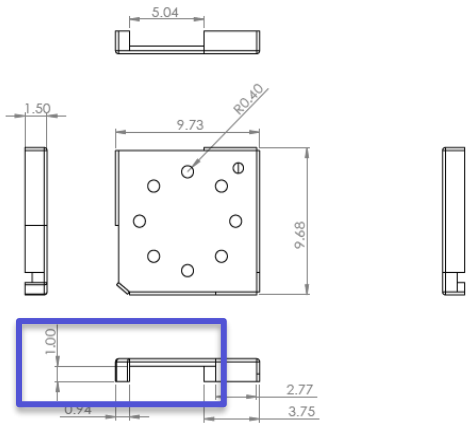


Figure 1: Shield Can Drawing (Old) ***Shield Can Drawing (new)***

5.2 Module Label

The labelling imagery used below is for the 451-00001 sku, as an example of where the revision number is located on all sku variants.

Figure 2: Current Module label ***Module label after PCN#9A-2020***

5.3 Reel Label

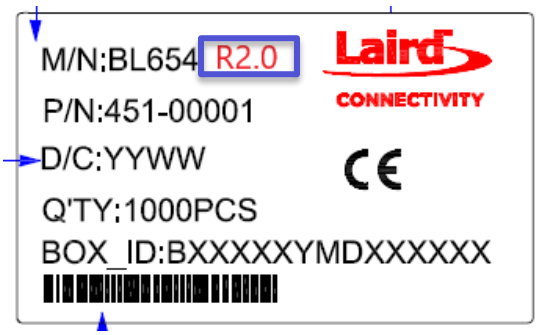
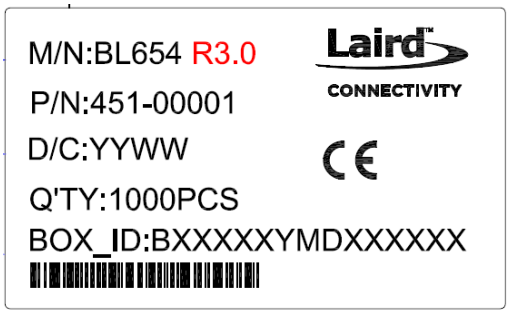


Figure 3: Current Reel label



Reel label after PCN#9A-2020

5.4 Carton Label

Figure 4: Master carton package label (current)

Master carton package label (new)

6 Factory Effectivity Date

This change has been affected as a running change into Laird manufacturing of all the BL654 Series products and production utilizing the new shield can can be clearly identified from the hardware control code “R3.0” on products labels. It is envisaged it will take some months for these products to proliferate out into the global distribution channels.

7 CONTACT INFORMATION:

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