

Product Change Notification (PCN)

PCN #: 7A-2023-R1

DATE: October 24, 2023

1 PRODUCTS AFFECTED

Laird Part Number	Description
450-0159R	Sterling-LWB base SiP module (Tape and Reel)
450-0159C	Sterling-LWB base SiP module (Cut Tape)
450-0148R	Sterling-LWB U.FL module (Tape and Reel)
450-0148C	Sterling-LWB U.FL module (Cut Tape)
450-0152R	Sterling-LWB chip antenna module (Tape and Reel)
450-0152C	Sterling-LWB chip antenna module (Cut Tape)
450-0155	Sterling-LWB SD development board, U.FL
450-0156	Sterling-LWB SD development board, chip antenna
450-0173	Sterling-LWB development board, WICED
453-00083R	Module, Sterling-LWB+, SIP, Tape and Reel
453-00083C	Module, Sterling-LWB+, SIP, Cut Tape
453-00084R	Module, Sterling-LWB+, MHF4, Tape and Reel
453-00084C	Module, Sterling-LWB+, MHF4, Cut Tape
453-00085R	Module, Sterling-LWB+, Chip Antenna, Tape and Reel
453-00085C	Module, Sterling-LWB+, Chip Antenna, Cut Tape
453-00141	Module, Sterling LWB+, M.2, Key E, SDIO, UART
453-00084-K1	Development Kit, Sterling-LWB+, MHF4
453-00085-K1	Development Kit, Sterling-LWB+, Chip Antenna
453-00012R	Sterling-EWB base SiP module (Tape and Reel)
453-00012C	Sterling-EWB base SiP module (Cut Tape)
453-00013R	Sterling-EWB U.FL module (Tape and Reel)
453-00013C	Sterling-EWB U.FL module (Cut Tape)
453-00014R	Sterling-EWB chip antenna module (Tape and Reel)
453-00014C	Sterling-EWB chip antenna module (Cut Tape)
455-00030	Dev Kit, Sterling-EWB Module, Chip Antenna
455-00031	Dev Kit, Sterling-EWB Module, FlexPIFA Antenna
450-0162R	Sterling-LWB5 Base SIP Module (Tape and Reel)
450-0162C	Sterling-LWB5 Base SIP Module (Cut Tape)
450-0168R	Sterling-LWB5 U.FL Module (Tape and Reel)
450-0168C	Sterling-LWB5 U.FL Module (Cut Tape)
450-0169R	Sterling-LWB5 Chip Antenna Module (Tape and Reel)
450-0169C	Sterling-LWB5 Chip Antenna Module (Cut Tape)
450-0171	Sterling-LWB5 SD Development Board, U.FL
450-0172	Sterling-LWB5 SD Development Board, Chip Antenna
453-00045R	Sterling LWB5+1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 - Integrated Antenna (Tape and Reel)

The information in this document is subject to change without notice.

Laird Part Number	Description
453-00045C	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 – Integrated Antenna (Cut Tape)
453-00046R	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 – MHF4 (Tape and Reel)
453-00046C	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 – MHF4 (Cut Tape)
453-00047R	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 – Trace Pin (Tape and Reel)
453-00047C	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 – Trace Pin (Tape and Reel)
453-00048	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 SDIO/UART M.2 Module
453-00049	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 USB/USB M.2 Module
453-00045-K1	Development Kit for Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 - Integrated Antenna
453-00046-K1	Development Kit for Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 – MHF4
453-00048-K1	Development Kit for Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 SDIO/UART M.2 Module
453-00049-K1	Development Kit for Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 USB/USB M.2 Module
450-00137	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 USB Adapter (Single Unit)
450-00137B	Sterling LWB5+ 1x1 802.11 a/b/g/n/ac + Bluetooth 5.2 USB Adapter (Bulk)
450-00179B	Assembly, PCBA, Sterling LWB5+, USB Adapter, Bulk

2 DESCRIPTION OF CHANGES

All changes have been applied to the part numbers listed above:

- Change the MAC OUI from C0EE40 to B0FB15.

3 REASON FOR CHANGE

As part of a normal consumption of MAC addresses for our connectivity products, available MAC addresses for a specific OUI are exhausted and a new OUI is required to allow continued supply of unique MAC addresses for Laird Connectivity products.

Our OUI C0EE40 is nearing the end of the available MAC addresses and a new OUI is needed to maintain supply of products without interruption.

4 ANTICIPATED IMPACT OF THE CHANGE:

The OUI change has no functional or electrical impact on the devices.

Labeling of the devices utilizing the new OUI (B0FB15) will change. The change is to replace the old OUI with the new one. Examples, by product, are shown in section 5 of the PCN.

5 METHOD OF IDENTIFYING THE CHANGED PRODUCT

5.1 Product Laser-etching

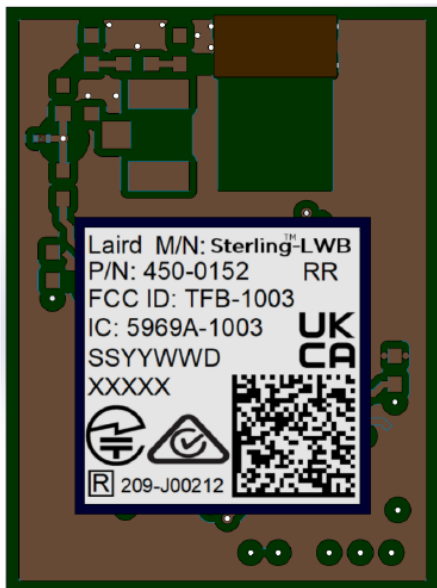
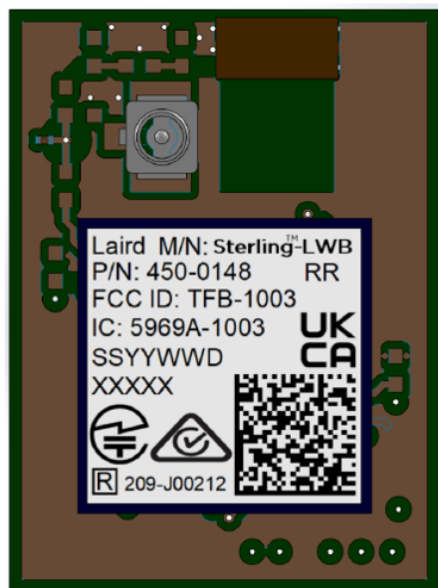
Laird Part Number: 450-0159R/450-0159C

The module with B0FB15 MAC OUI will have an example barcode readout such as “450-0159,1 ,0523302,00001”, indicating that modules with a date code of 0523302 or any date code later than week 30 of 2023 will possibly have B0FB15 MAC OUI.



Laird Part Number: 450-0148R/450-0148C/450-0152R/450-0152C

The module with B0FB15 MAC OUI will have an example barcode readout such as “450-0148,1 ,0523302,00001” or “450-0152,1 ,0523302,00001”, indicating that modules with a date code of 0523302 or any date code later than week 30 of 2023 will possibly have B0FB15 MAC OUI.

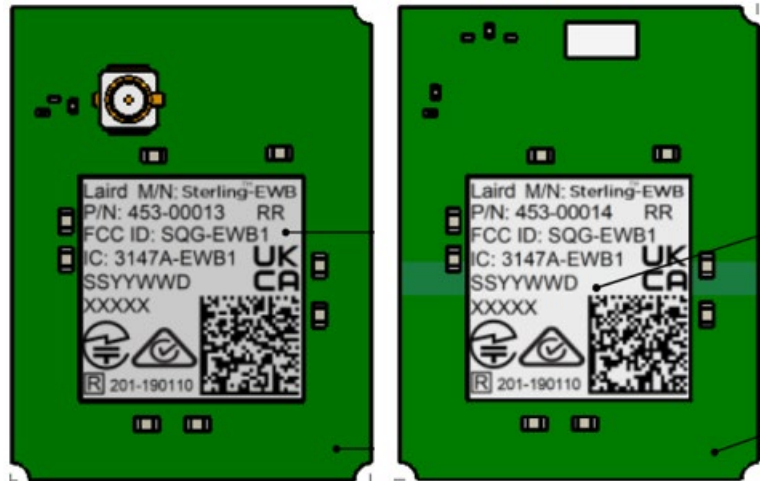


Laird Part Number: 453-00012R/453-00012C

The module with B0FB15 MAC OUI will have an example barcode readout such as “453-00012,1 ,0523302,00001”, indicating that modules with a date code of 0523302 or any date code later than week 30 of 2023 will possibly have B0FB15 MAC OUI.

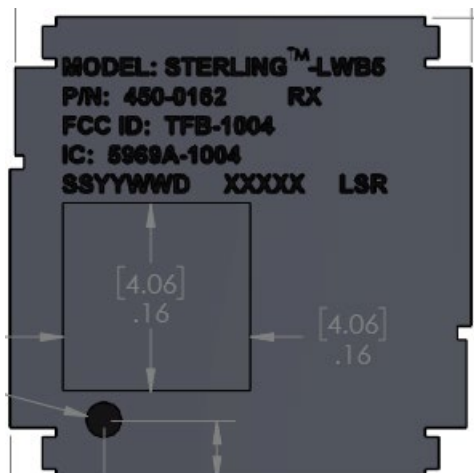
**Laird Part Number: 453-00013R/453-00013C/453-00014R/453-00014C**

The module with B0FB15 MAC OUI will have an example barcode readout such as “453-00013,1 ,0523302,00001” or “453-00014,1 ,0523302,00001”, indicating that modules with a date code of 0523302 or any date code later than week 30 of 2023 will possibly have B0FB15 MAC OUI.

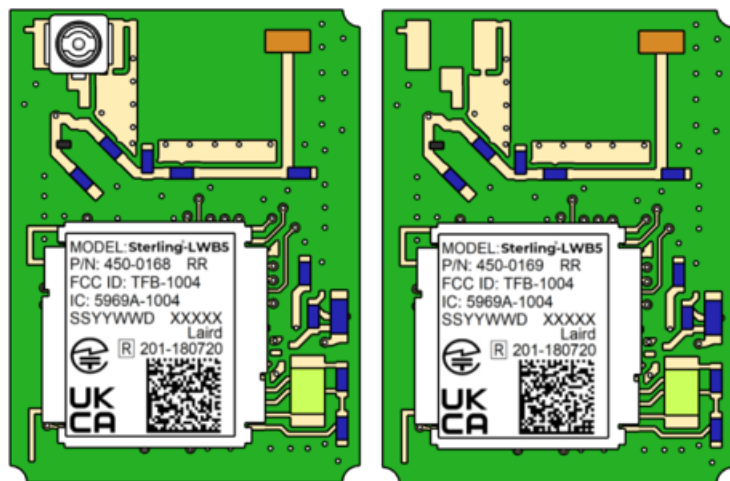


Laird Part Number: 450-0162R/450-0162C

The module with B0FB15 MAC OUI will have an example barcode readout such as “450-0162,1 ,0523302,00001”, indicating that modules with a date code of 0523302 or any date code later than week 30 of 2023 will possibly have B0FB15 MAC OUI.

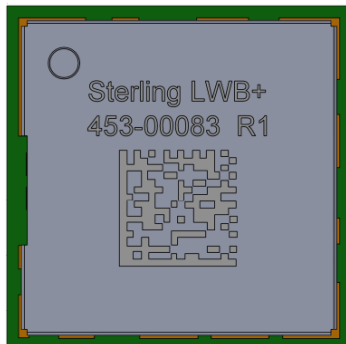
**Laird Part Number: 450-0168R/450-0168C/450-0169R/450/0169C**

The module with B0FB15 MAC OUI will have an example barcode readout such as “450-0168,1 ,0523302,00001” or “450-0169,1 ,0523302,00001”, indicating that modules with a date code of 0523302 or any date code later than week 30 of 2023 will possibly have B0FB15 MAC OUI.



Laird Part Number: 453-00083R/453-00083C

MAC OUI embedded in the barcode will change from C0EE40 to B0FB15

**Laird Part Number: 453-00084R/453-00084C/453-00084-K1**

MAC OUI embedded in the barcode will change from C0EE40 to B0FB15

**Laird Part Number: 453-00085R/453-00085C/453-00085-K1**

MAC OUI embedded in the barcode will change from C0EE40 to B0FB15

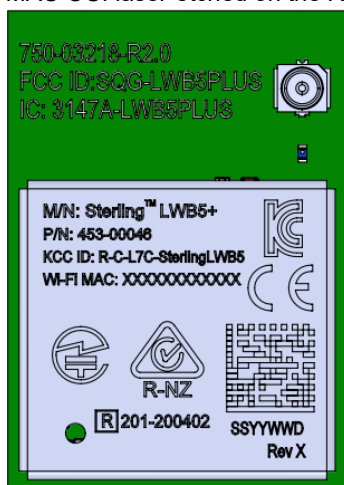


Laird Part Number: 453-00045R/453-00045C/453-00045-K1

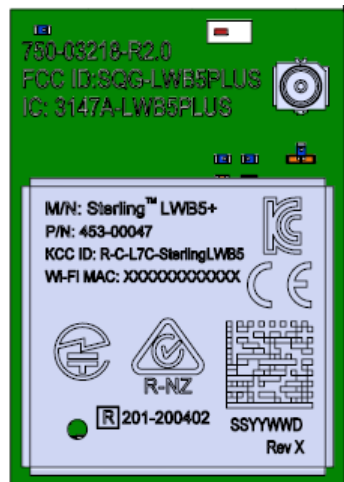
MAC OUI laser-etched on the RF shield and embedded in the barcode will change from C0EE40 to B0FB15

**Laird Part Number: 453-00046R/453-00046C/453-00046-K1**

MAC OUI laser-etched on the RF shield and embedded in the barcode will change from C0EE40 to B0FB15

**Laird Part Number: 453-00047R/453-00047C/453-00048/453-00049/453-00048-K1/453-00049-K1**

MAC OUI laser-etched on the RF shield and embedded in the barcode will change from C0EE40 to B0FB15



Laird Part Number: 450-00137/450-00137B

MAC OUI on the product label and embedded in the barcode will change from C0EE40 to B0FB15



6 FACTORY EFFECTIVITY DATE

These changes will be implemented into manufacturing starting from Date Codes, as outlined below for each product variant. The date code is shown on each label, as format SSYYWWD.

SS = Supplier code

YY = last two numbers of the year (ex: 18=2018, 19=2019)

WW = Week of the year

D = day of the week (ex: Sun=1, Mon=2, Tue=3, Wed=4, Thu=5, Fri=6, Sat=7)

Laird Part Number	Factory Effectivity – Date Codes
450-0159R	0523302
450-0159C	0523302
450-0148R	0223302
450-0148C	0223302
450-0152R	0223302
450-0152C	0223302
450-0155	0223302
450-0156	0223302
450-0173	0223302
453-00083R	1323302
453-00083C	1323302
453-00084R	1323302
453-00084C	1323302
453-00085R	1323302
453-00085C	1323302
453-00141	1323302
453-00084-K1	1323302
453-00085-K1	1323302
453-00012R	0523302
453-00012C	0523302
453-00013R	0223302
453-00013C	0223302
453-00014R	0223302
453-00014C	0223302
455-00030	0223302
455-00031	0223302
450-0162R	0623302
450-0162C	0623302
450-0168R	0223302
450-0168C	0223302
450-0169R	0223302
450-0169C	0223302

Laird Part Number	Factory Effectivity – Date Codes
450-0171	0223302
450-0172	0223302
453-00045R	1123302
453-00045C	1123302
453-00046R	1123302
453-00046C	1123302
453-00047R	1123302
453-00047C	1123302
453-00048	1123302
453-00049	1123302
453-00045-K1	1123302
453-00046-K1	1123302
453-00048-K1	1123302
453-00049-K1	1123302
450-00137	1223302
450-00137B	1223302

7 PCN REVISION HISTORY

Date	Description
7/28/2023	Initial Release
10/24/2023	Identify METHOD OF IDENTIFYING THE CHANGED PRODUCT section to add further details on distinguishing between old and new modules.

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