

# Product Change Notification (PCN)

PCN #: 7B-2022

DATE: 10<sup>th</sup> August 2022

## 1 PRODUCTS AFFECTED

Laird Part Number	Description
AC4490-1000M-01	902 - 928 MHz FHSS, 0 - 1 W, MMCX
AC4790-1000M-01	902 - 928 MHz FHSS, 0 - 1 W, MMCX
AC4490LR-1000M-01	902 - 928 MHz FHSS, 0 - 1 W, MMCX, Long Range
AC4790LR-1000M-01	902 - 928 MHz FHSS, 0 - 1 W, MMCX, Long Range
AC4790LR-1000M-02	902 - 928 MHz FHSS, 0 - 1 W, MMCX, Long Range (Custom)
DVK-AC4490LR-1000M	Development Kit for AC4490LR-100M / AC4490-1000M Modules

## 2 DESCRIPTION OF CHANGES

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

- Changed Qorvo RF power amplifier (RF6886)
- Changed RF filters (LPF ceramic and BPF SAW) but with similar specifications.
- 14.7456MHz crystal changed and body size reduction, but with similar specification.
- Passive component body size reduction
- and therefore, PCB layout changed

## 3 REASON FOR CHANGE

The Qorvo RF power amplifier (RF2173) used on old pre-revision 2.0 hardware is now EOL (End of Life). Improve manufacturing processes and supply chain capability for required components.

## 4 ANTICIPATED IMPACT OF THE CHANGE:

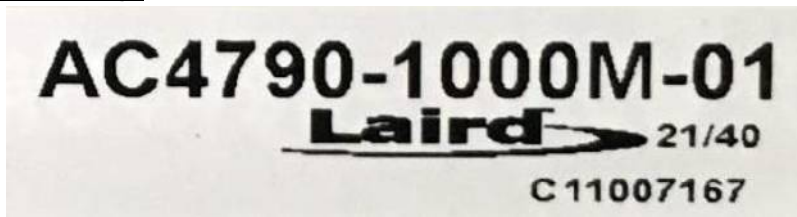
- Regulatory Test and resubmission for Permissive Class 2 change under the same FCC and ISED IDs
- Updated labelling
- RF performance maintained from prior hardware revisions
- No software changes.
- No form, fit or function changes.

## 5 METHOD OF IDENTIFYING THE CHANGED PRODUCT

### 5.1 Product Label (on device)

- AC4490-1000M-01 / AC4790-1000M-01 / AC4490LR-1000M-01 / AC4790LR-1000M-01 / AC4790LR-1000M-02
- - Label dimensions change from 35mm x 20mm to include FCC/ISED ID
  - Replace with Laird Connectivity Logo
  - Add Hardware revision code "R2" as an identifier.
  - Change date code rule to 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)

#### Before Change



#### After Change



### 5.2 Bag Label for Revision 2.0 Hardware

- Replace with Laird Connectivity Logo
- Add Revision Control code
- Change date code rule to SSYYWWD



### 5.3 Carton Label for Revision 2.0 Hardware

- Replace with Laird Connectivity Logo
- Add Revision Control code
- Change date code rule to SSYYWWD



## 6 FACTORY EFFECTIVITY DATE

The hardware revision 2.0 and label changes will be implemented into manufacturing starting from the end of Q4 2022.

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
AC4490-1000M-01	1722482
AC4790-1000M-01	1722482
AC4490LR-1000M-01	1722482
AC4790LR-1000M-01	1722482
AC4790LR-1000M-02	1722482
DVK-AC4490LR-1000M	1722482

## 7 CONTACT INFORMATION:

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*Product Change Notices (PCNs) will be distributed at the discretion of Laird Connectivity. Occasionally, Laird Connectivity may adjust product revision levels for internal tracking purposes only, and customers may not receive formal notifications associated with those revision changes.*