

## Product Change Notice

Issue Date: 12-September-2022

### Change Description:

- Implement new PCB for 1 x 9
- Replace all resistors by lead free resistors
- Remove internal 100 Ohm termination of Tx IC
- Add additional inductors to the power supply
- Add new 0 Ohm resistors in differential Rx Data\_Out
- Change of length and color of ST dust cap (AFBR-5813TQZ only)
- Change product label to Rev.3

### Parts Affected:

AFBR-5813TQZ  
AFBR-5813QZ

### Description and Extent of Change:

Changes:

- a. Shorten ST dust cap and change color to black
- b. Replace all passive resistors on PCB with lead-free components
- c. Remove internal 100 Ohm input termination in the IC
- d. Generate placeholder on PCB for optional Tx 100 Ohm termination and add 100 Ohm termination
- e. Generate placeholders on PCB for optional resistors in differential Rx data output lines and additional inductors in PCB power supply  
Remove three 0 Ohm placeholders and 3 0 Ohm resistors) at other positions which are not used  
Add two 0 Ohm resistors in differential Rx output data lines and two inductors in PCB power supply.
- f. Change Revision on product label to Rev. 3

### Reasons for Change:

- a. Length of current ST dust cap is slightly too long.
- b. Product has been designed according the EU exemption 7C-I which has expired already in July 2021. Therefore passive components with contain lead need to be replaced (all passive resistors on the PCB)
- c. (d + e) Provide option for flexible on-board Tx input termination and further improvement of output signal flexibility and EMI performance

### Effective Date of Change:

Product shipments which may contain changed material may begin on or after **2 January 2023, (WW2301)**, but the initiation of the change may be spread over approximately 6 months. Timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

### Qualification Data:

Characterization Report available.

---

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please acknowledge the receipt of the notice within 30 days of delivery. Lack of acknowledgement within 30 days constitutes acceptance of the change per JEDEC J-STD-046.