

PCN # 2230

DATE: March 7, 2022

EXPECTED PCN SHIP DATE: March 7, 2022



Quality Assurance
160 Rio Robles
San Jose, CA 95134

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PROCESS CHANGE NOTICE
 PRODUCT CHANGE NOTICE

ANALOG DEVICES HEREBY ISSUES NOTIFICATION OF CHANGE
THAT MAY AFFECT THE FOLLOWING CATEGORIES:

DESIGN WAFER FAB ASSEMBLY TEST ELEC/MECH SPECS

AFFECTED PRODUCT:

Ordering P/N: (See PN listing XLS in PCN ZIP file)

<p>CHANGE FROM: - Design revision change for MAX86178 (Ultra-Low-Power, Vital-Sign AFE IC) Current die revision OS65A-0D</p> <p>1. The input referred noise of the BIOZ receiver was high because offset chopping was not turned on in the PGA amplifier. This degrades the impedance repeatability of respiration measurements.</p> <p>2. When RLD is enabled at the same time as DC lead-off, the magnitude of the DC lead-off current reduces. This is because RLD and DC lead-off shared the same bias current.</p> <p>AFE: Analog Front-End; BIOZ: Bioimpedance PGA: Programmable Gain Amplifier; RLD: Right Leg Drive</p>	<p>CHANGE TO: - New revised die OS65A-0F</p> <p>1. Offset chopping is turned on in the BIOZ PGA. Resulting in lower input referred noise.</p> <p>2. The RLD amplifier and DC lead-off block are biased with independent currents.</p>
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JUSTIFICATION: -
This die revision change was necessary in order to fix the problems described above.

The Form/Fit/Function are unchanged.

TRACEABILITY: Analog Device maintains full traceability by device marking, packaging labels and shipment documents.

Analog Devices's Change Notification System is designed to keep our customer base apprised of major product, manufacturing, or facility improvements.

Nasser Ali Chaouche

Nasser AliChaouche / PCN Coordinator

For further information, please contact either of the people listed below.

Contact your local Analog Devices Company Representative or Nasser AliChaouche, PCN Coordinator
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