



Product/Process Change Notice - PCN 14_0158 Rev. -

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This notice is to inform you of a change that will be made to certain ADI products (see Material Report). Any issues with this PCN or requirements to qualify the change (additional data or samples) must be sent to ADI within 30 days of publication date. ADI contact information is listed below.

PCN Title: AD8422 Die Revision and Datasheet Change
Publication Date: 15-Dec-2014
Effectivity Date: 01-Feb-2015 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

The die revision changes the amplifier's input stage circuitry to improve power-up performance with very large source impedances.

The datasheet will need to change accordingly to the die revision. These changes apply to all grades and packages.

The minimum power supply will change from 3.6 V to 4.6 V for single supply and from +/-1.8 V to +/-2.3 V for dual supply.

All specifications with the test condition of $V_s = 3.6\text{ V}$ will now be specified at $V_s = 4.6\text{ V}$.

All specifications with the test condition of $V_s = +/-1.8\text{ V}$ will now be specified at $V_s = +/-2.3\text{ V}$.

The CMRR at 7 kHz specification will change to CMRR at 10 kHz.

The Input Operating Voltage Range maximum will change from $+V_s - 1.1\text{ V}$ to $+V_s - 1.2\text{ V}$. Over temperature it will change from $+V_s - 1.2\text{ V}$ to $+V_s - 1.3\text{ V}$.

The Output Swing with 2 kOhms load and $V_s = +/-2.3\text{ V}$ will change from $-V_s + 0.15\text{ V}$ and $+V_s - 0.15\text{ V}$ to $-V_s + 0.16\text{ V}$ and $+V_s - 0.16\text{ V}$, respectively.

The Human Body Model ESD performance will change from 3 kV to 2.5 kV.

Reason For Change

To improve the power-up performance with large source impedances.

Impact of the change (positive or negative) on fit, form, function & reliability

No changes to fit, form, function, or reliability.

Summary of Supporting Information

Qualification has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Results Summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_14_0158_Rev_-_Qual_Summary.pdf

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

Americas: PCN_Americas@analog.com

Europe: PCN_Europe@analog.com

Japan: PCN_Japan@analog.com

Rest of Asia: PCN_ROA@analog.com

Appendix A - Affected ADI Models**Added Parts On This Revision - Product Family / Model Number (12)**

AD8422 / AD8422ARMZ	AD8422 / AD8422ARMZ-R7	AD8422 / AD8422ARMZ-RL	AD8422 / AD8422ARZ	AD8422 / AD8422ARZ-R7
AD8422 / AD8422ARZ-RL	AD8422 / AD8422BRMZ	AD8422 / AD8422BRMZ-R7	AD8422 / AD8422BRMZ-RL	AD8422 / AD8422BRZ
AD8422 / AD8422BRZ-R7	AD8422 / AD8422BRZ-RL			

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	15-Dec-2014	01-Feb-2015	Initial Release

Analog Devices, Inc.

DocId:2967 Parent DocId:None Layout Rev:7