



Product/Process Change Notice - PCN 10_0147 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: AD7656, AD7656-1, AD7657-1, AD7658-1 Datasheet FSR definition clarification

Publication Date: 09-Jun-2010

Effectivity Date: 09-Jun-2010 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

Clarification of terminology to aid with ADC error budget analysis.
%FS updated to %FSR to reflect bipolar ADC operation.
% FSR is calculated using the full theoretical span of a bipolar ADC.
Example:
+/- 10 V range:
Error calculated in volts: $(\text{ADC error V}/20\text{V}) \times 100 = \text{ADC error in \%FSR}$
+/- 5V range:
Error calculated in volts: $(\text{ADC error V}/10\text{V}) \times 100 = \text{ADC error in \%FSR}$

Reason For Change

Definition of FSR unclear

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

There is no change in the product design or operation of the device therefore there will be no impact on the fit, form, function and reliability of the device.

Summary of Supporting Information

This clarification is reflected in Rev B of the AD7656 datasheet and Rev B of the AD7656-1/AD7657-1/AD7658-1 datasheet both of which are available online at ADI.com

Supporting Documents None

For questions on this PCN, send email to the regional contacts below or contact your local ADI sales representative

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 (16)**

AD7656 / AD7656BSTZ	AD7656 / AD7656BSTZ-REEL	AD7656 / AD7656YSTZ	AD7656 / AD7656YSTZ-REEL	AD7656-1 / AD7656BSTZ-1	AD7656-1 / AD7656BSTZ-1-RL
AD7656-1 / AD7656YSTZ-1	AD7656-1 / AD7656YSTZ-1-RL	AD7657-1 / AD7657BSTZ-1	AD7657-1 / AD7657BSTZ-1-RL	AD7657-1 / AD7657YSTZ-1	AD7657-1 / AD7657YSTZ-1-RL
AD7658-1 / AD7658BSTZ-1	AD7658-1 / AD7658BSTZ-1-RL	AD7658-1 / AD7658YSTZ-1	AD7658-1 / AD7658YSTZ-1-RL		

Appendix B - Revision History

Rev	Publish Date	Rev Description
Rev. -	09-Jun-2010	Initial Release

Analog Devices, Inc.

DocId:1145 Parent DocId:None Layout Rev:3