ANALOG Product/Process Change Notice - PCN 11_0262 Rev. A

Analog Devices, Inc. Three Technology Way Norwood, Massachusetts 02062-9106

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.

Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

PCN Title:	AD5380 and AD5382 Redesign and Fab Process Change		
Publication Date:	11-May-2012		
Effectivity Date:	11-May-2012	(the earliest date that a customer could expect to receive changed material)	

Revision Description:

Include effectivity date code

Description Of Change

Wafer fabrication change from the 6" 0.5um process at Taiwan Semiconductor Manufacturing Company (TSMC), to the 8" 0.35um process at Analog Devices Limerick Ireland, involving an all-layer change/redesign. This redesign will result in the following data sheet specification changes: Change in Gain Error spec from +/-0.024 % FSR max to +/-0.05 % FSR max Change in DC Crosstalk spec from 0.5 LSB max to 1 LSB max Change in Reference Output Impedance spec from 2.2kohm typ to 800ohm typ Change in DC Output Impedance spec from 0.5ohm max to 0.6ohm max Change in Vil input low voltage spec for logic inputs as follows: From 0.8V max at DVdd = 2.7V to 5.5V to 0.6V max at DVdd <= 3.6V and 0.8V max at DVdd > 3.6V Change in Aldd Power-Down spec from 2uA max to 20uA max Change in Output Voltage Settling Time spec from 8us typ and 10us max, to 3us typ and 8us max Change in Slew Rate spec as follows: From: 2 V/us typ (Boost mode off) and 3 V/us typ (Boost mode on) To: 1.5 V/us typ (Boost mode off) and 2.5 V/us typ (Boost mode on) Change in t14 /BUSY rising edge to DAC output response time spec from 100ns max to 2us max Change in t19 /CLR pulse activation time spec from 35us max to 40us max

Reason For Change

Increased manufacturing flexibility and capacity.

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

No impact on fit, form, function & reliability of the AD5380 or AD5382.

Product Identification (this section will describe how to identify the changed material)

Switch-over to new silicon can be traced by means of the assembly date-code branded on the package as follows: All AD5380 models: date-code 1217 or later (with the exception of date-code 1203) All AD5382 models: date-code 1217 or later

Summary of Supporting Information

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

Supporting Documents

Attachment 1: Type: Qualification Report Summary ADI_PCN_11_0262_Rev_A_QUALIFICATION DATA.pdf

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: Rest of Asia:	PCN_Japan@analog.com PCN_ROA@analog.com

Appendix A - Affected ADI Models						
Existing Parts - Product Family / Model Number (4)						
AD5380 / AD5380BSTZ-3	AD5380 / AD5380BSTZ-5	AD5382 / AD5382BSTZ-3	AD5382 / AD5382BSTZ-5			
Appendix B - Revision History						

Appendix B - Revision History		
Rev	Publish Date	Rev Description
Rev	01-Nov-2011	Initial Release
Rev. A	11-May-2012	Include effectivity date code
	·	

Analog Devices, Inc.

Docld:1951 Parent Docld:None Layout Rev.6