



Product/Process Change Notice - PCN 09_0027 Rev. -

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 receiving this notification. The information contained within this PCN is considered proprietary and should not be shared outside of your company. ADI contact information is listed below.

PCN Title: Conversion to Laser Mark for the LQFP Packages (Single Grades)
Publication Date: 16-Jun-2009
Samples Available Date:
Effectivity Date: 13-Sep-2009 *(the earliest date that a customer could expect to receive changed material)*

Description Of Change

ADI will be converting the package top mark (or brand) from ink mark to laser mark for all lead counts and body sizes of the LQFP packages.

Transition to laser mark will commence on or after the specified effectivity date and the receipt of laser marked units will be dependent on inventory depletion of ink marked material and/or production release requirements. Other QFP package types will be converted to laser mark at a later date. Additional packages such as BGA and Multi-grade parts still with ink mark will also be converted throughout 2009 and updated change notices will be published, as required.

Reason For Change

ADI is already in production with laser mark for many package families i.e. Low pin counts. The industry trend is toward ink mark elimination in favor of laser mark. This aligns with supplier direction and industry environmental initiatives.

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

N/A

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

Changed material can be identified by the top laser marking.

Summary of Supporting Information

ADI has used laser mark in production for many years. Samples were obtained and evaluated for marking contrast using an Agilent MV8000 contrast measurement tool and also on tape and reel vision system performance based on current test site/s. See attached photo for an ink vs. laser marked product.

Supporting Documents

Attachment 1: ADI_PCN_09_0027_Rev_-_adi48lqfp.JPG

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 (320)

AD1991 / AD1991ASV	AD1991 / AD1991ASVRL	AD1991 / AD1991ASVZ	AD1991 / AD1991ASVZRL	AD53105 / AD53105-03JSV	AD53105 / AD53105-04JSV
AD53509G / AD53509JSW	AD53509G / AD53509JSWZ	AD53564 / AD53564JSW	AD53564 / AD53564JSWZ	AD53566 / AD53566BSVZ	AD5360 / AD5360BSTZ
AD5360 / AD5360BSTZ-REEL	AD5361 / AD5361BSTZ	AD5361 / AD5361BSTZ-REEL	AD5362 / AD5362BSTZ	AD5362 / AD5362BSTZ-REEL	AD5363 / AD5363BSTZ
AD5363 / AD5363BSTZ-REEL	AD5522 / AD5522JSVDZ	AD5522 / AD5522JSVUZ	AD5560 / AD11/2052-0	AD5560 / AD11/2052X-0	AD5560 / AD11/2059Z-1
AD5560 / AD5560JSVUZ	AD5560 / AD5560JSVUZ-REEL	AD5560 / AD5560XSVUZ-1	AD5560 / AD5560XSVUZ-3	AD6645 / AD6645ASQ-105	AD6645 / AD6645ASQ-80
AD6645 / AD6645ASQZ-105	AD6645 / AD6645ASQZ-80	AD6645 / AD6645ASVZ-105	AD6645 / AD6645ASVZ-80	AD6645 / AD80100	AD6645 / AD80100ASQZ-80
AD6645 / AD80100ASVZ-80	AD6645 / AD80101	AD6645 / AD80101ASQZ-80	AD6645 / AD80111	AD6645 / AD80111ASQZ-80	AD6645 / AD80112
AD6645 / AD80113	AD7294 / AD7294BSUZ	AD7294 / AD7294BSUZRL	AD7760 / AD7760BSVZ	AD7760 / AD7760BSVZ-REEL	AD7762 / AD7762BSVZ
AD7762 / AD7762BSVZ-REEL	AD7763 / AD7763BSVZ	AD7763 / AD7763BSVZ-REEL	AD8159 / AD8159ASVZ	AD8280 / AD8280WASTZ	AD8280 / AD8280WASTZ-RL
AD8280 / AD8280WXSTZ	AD8381 / AD45021	AD8381 / AD8381JST	AD8381 / AD8381JSTZ	AD8384 / AD45033	AD8384 / AD45051
AD8384 / AD8384ASVZ	AD8387 / AD8387JSVZ	AD9218 / AD9218BST-105	AD9218 / AD9218BST-40	AD9218 / AD9218BST-65	AD9218 / AD9218BST-80
AD9218 / AD9218BST-RL105	AD9218 / AD9218BST-RL40	AD9218 / AD9218BST-RL65	AD9218 / AD9218BST-RL80	AD9218 / AD9218BSTZ-105	AD9218 / AD9218BSTZ-40
AD9218 / AD9218BSTZ-65	AD9218 / AD9218BSTZ-80	AD9218 / AD9218BSTZ-RL105	AD9218 / AD9218BSTZ-RL40	AD9218 / AD9218BSTZ-RL65	AD9218 / AD9218BSTZ-RL80
AD9226 / AD80065	AD9226 / AD9226AST	AD9226 / AD9226ASTRL	AD9226 / AD9226ASTZ	AD9226 / AD9226ASTZRL	AD9238 / AD80078BSTRL
AD9238 / AD9238BST-20	AD9238 / AD9238BST-40	AD9238 / AD9238BST-65	AD9238 / AD9238BSTRL-20	AD9238 / AD9238BSTRL-40	AD9238 / AD9238BSTRL-65
AD9238 / AD9238BSTZ-20	AD9238 / AD9238BSTZ-40	AD9238 / AD9238BSTZ-65	AD9238 / AD9238BSTZRL-20	AD9238 / AD9238BSTZRL-40	AD9238 / AD9238BSTZRL-65
AD9244 / AD9244BSTZ-40KLI	AD9248 / AD9248BSTZ-20	AD9248 / AD9248BSTZ-40	AD9248 / AD9248BSTZ-65	AD9248 / AD9248BSTZRL-20	AD9248 / AD9248BSTZRL-40
AD9248 / AD9248BSTZRL-65	AD9271 / AD9271BSVZ-25	AD9271 / AD9271BSVZ-40	AD9271 / AD9271BSVZ-50	AD9271 / AD9271BSVZRL-25	AD9271 / AD9271BSVZRL-40
AD9271 / AD9271BSVZRL-50	AD9272 / AD9272BSVZ-40	AD9272 / AD9272BSVZ-65	AD9272 / AD9272BSVZ-80	AD9272 / AD9272BSVZRL-40	AD9272 / AD9272BSVZRL-65
AD9272 / AD9272BSVZRL-80	AD9272 / AD9272XSVZ-65	AD9272 / AD9272XSVZ-80	AD9273 / AD9273BSVZ-25	AD9273 / AD9273BSVZ-40	AD9273 / AD9273BSVZ-50
AD9273 / AD9273BSVZRL-25	AD9273 / AD9273BSVZRL-40	AD9273 / AD9273BSVZRL-50	AD9273 / AD9273XSVZ-25	AD9273 / AD9273XSVZ-40	AD9273 / AD9273XSVZ-50
AD9288 / AD9288BSTZ-40KLI	AD9288 / AD9288BSTZ-80KLI	AD9380 / AD9380KSTZ-100	AD9380 / AD9380KSTZ-150	AD9381 / AD9381KSTZ-100	AD9381 / AD9381KSTZ-150
AD9397 / AD9397KSTZ-100	AD9410 / AD9410BSVZ	AD9411 / AD9411BSV-170	AD9411 / AD9411BSV-200	AD9411 / AD9411BSVZ-170	AD9411 / AD9411BSVZ-200
AD9430 / AD80107Z	AD9430 / AD80142BSVZ-200	AD9430 / AD80205BSVZ-200	AD9430 / AD80215BSVZ-185	AD9430 / AD9430BSV-170	AD9430 / AD9430BSV-210
AD9430 / AD9430BSVZ-170	AD9430 / AD9430BSVZ-210	AD9432 / AD9432BSQ-105	AD9432 / AD9432BSQ-80	AD9432 / AD9432BSQZ-105	AD9432 / AD9432BSQZ-80
AD9432 / AD9432BSVZ-105	AD9432 / AD9432BSVZ-80	AD9433 / AD80117	AD9433 / AD80117Z	AD9433 / AD9433BSQ-105	AD9433 / AD9433BSQ-125
AD9433 / AD9433BSQZ-105	AD9433 / AD9433BSQZ-125	AD9433 / AD9433BSVZ-105	AD9433 / AD9433BSVZ-125	AD9444 / AD9444BSVZ-80	AD9445 / AD9445BSVZ-105
AD9445 / AD9445BSVZ-125	AD9446 / AD9446BSVZ-100	AD9446 / AD9446BSVZ-80	AD9447 / AD9447BSVZ-250	AD9460 / AD9460BSVZ-105	AD9460 / AD9460BSVZ-80
AD9461 / AD9461BSVZ	AD9461 / AD9461XSVZ-130	AD9467 / AD9467BSVZ-250	AD9726 / AD9726BSVZ	AD9726 / AD9726BSVZRL	AD9773 / AD9773BSV
AD9773 / AD9773BSVRL	AD9773 / AD9773BSVZ	AD9773 / AD9773BSVZRL	AD9775 / AD9775BSV	AD9775 / AD9775BSVRL	AD9775 / AD9775BSVZ
AD9775 / AD9775BSVZRL	AD9776 / AD9776BSVZ	AD9776 / AD9776BSVZRL	AD9776A / AD9776ABSVZ	AD9776A / AD9776ABSVZRL	AD9777 / AD9777BSV
AD9777 / AD9777BSVRL	AD9777 / AD9777BSVZ	AD9777 / AD9777BSVZRL	AD9778 / AD80164BSVZ	AD9778 / AD9778BSVZ	AD9778 / AD9778BSVZRL
AD9778A / AD80164ABSVZ	AD9778A / AD9778ABSVZ	AD9778A / AD9778ABSVZRL	AD9779 / AD80182BSVZ	AD9779 / AD9779BSVZ	AD9779 / AD9779BSVZRL
AD9779A / AD80182ABSVZ	AD9779A / AD80219ABSVZ	AD9779A / AD9779ABSVZ	AD9779A / AD9779ABSVZRL	AD9785 / AD9785BSVZ	AD9785 / AD9785BSVZRL
AD9786 / AD80104BSVZ	AD9786 / AD9786BSV	AD9786 / AD9786BSVRL	AD9786 / AD9786BSVZ	AD9786 / AD9786BSVZRL	AD9787 / AD9787BSVZ
AD9787 / AD9787BSVZRL	AD9788 / AD9788BSVZ	AD9788 / AD9788BSVZRL	AD9804 / AD9804AJST	AD9804 / AD9804AJSTRL	AD9804 / AD9804AJSTZ
AD9804 / AD9804AJSTZRL	AD9806 / AD9806KST	AD9806 / AD9806KSTRL	AD9806 / AD9806KSTZ	AD9806 / AD9806KSTZRL	AD9821 / AD9821KST
AD9821 / AD9821KSTRL	AD9821 / AD9821KSTZ	AD9821 / AD9821KSTZRL7	AD9846A / AD9846AJSTZ	AD9846A / AD9846AJSTZRL	AD9852 / AD9852ASVZ
AD9854 / AD9854ASVZ	AD9858 / AD9858BSV	AD9858 / AD9858BSVZ	AD9859 / AD9859YSV	AD9859 / AD9859YSV-REEL7	AD9859 / AD9859YSVZ
AD9859 / AD9859YSVZ-REEL7	AD9910 / AD9910BSVZ	AD9910 / AD9910BSVZ-REEL	AD9940 / AD9940BSTZ	AD9940 / AD9940BSTZRL	AD9941 / AD9941BSTZ
AD9941 / AD9941BSTZRL	AD9951 / AD9951YSV	AD9951 / AD9951YSV-REEL7	AD9951 / AD9951YSVZ	AD9951 / AD9951YSVZ-REEL7	AD9952 / AD9952YSV
AD9952 / AD9952YSV-REEL7	AD9952 / AD9952YSVZ	AD9952 / AD9952YSVZ-REEL7	AD9953 / AD9953YSV	AD9953 / AD9953YSV-REEL7	AD9953 / AD9953YSVZ
AD9953 / AD9953YSVZ-REEL7	AD9954 / AD80176YSVZ	AD9954 / AD9954YSV	AD9954 / AD9954YSV-REEL7	AD9954 / AD9954YSVZ	AD9954 / AD9954YSVZ-REEL7
AD9957 / AD80150BSVZ	AD9957 / AD80150BSVZ-REEL	AD9957 / AD9957BSVZ	AD9957 / AD9957BSVZ-REEL	ADATE205 / ADATE205BSV	ADATE205 / ADATE205BSVZ
ADATE206 / ADATE206BSV	ADATE206 / ADATE206BSVZ	ADATE302-02 / ADATE302-02BSVZ	ADATE305 / ADATE305BSVZ	ADATE305 / ADATE305XSVZ	ADAU1445 / ADW80001YSVZ-RLKLI
ADM1026 / ADM1026JSTZ-REEL	ADM1068 / ADW30001Z-ORL7KLI	ADN4604 / ADN4604ASVZ	ADSP-21060 / AD90682	ADSP-21060 / AD90772	ADSP-21060 / ADSP-21060CW-133
ADSP-21060 / ADSP-21060CZ-133	ADSP-21060 / ADSP-21060KS-133	ADSP-21060 / ADSP-21060KS-160	ADSP-21060 / ADSP-21060KSZ-133	ADSP-21060 / ADSP-21060KSZ-160	ADSP-21060L / ADSP-21060LCW-160
ADSP-21060L / ADSP-21060LKS-133	ADSP-21060L / ADSP-21060LKS-160	ADSP-21060L / ADSP-21060LKSZ-160	ADSP-21061 / ADSP-21061KS-133	ADSP-21061 / ADSP-21061KS-160	ADSP-21061 / ADSP-21061KS-200
ADSP-21061 / ADSP-21061KSZ-133	ADSP-21061 / ADSP-21061KSZ-160	ADSP-21061 / ADSP-21061KSZ-200	ADSP-21062 / ADSP-21062CS-160	ADSP-21062 / ADSP-21062CSZ-160	ADSP-21062 / ADSP-21062KS-133
ADSP-21062 / ADSP-21062KS-160	ADSP-21062 / ADSP-21062KSZ-133	ADSP-21062 / ADSP-21062KSZ-160	ADSP-21062L / ADSP-21062LCS-160	ADSP-21062L / ADSP-21062LCSZ-160	ADSP-21062L / ADSP-21062LKS-133
ADSP-21062L / ADSP-21062LKS-160	ADSP-21062L / ADSP-21062LKSZ-133	ADSP-21062L / ADSP-21062LKSZ-160	ADSP-21367 / ADSP-21367BBP-2A	ADUC7032-8L / ADUC7032BSTZ-88	ADUC7032-8L / ADUC7032BSTZ-88-RL
ADV7120 / ADV7120KST30	ADV7120 / ADV7120KST30-REEL	ADV7120 / ADV7120KSTZ30	ADV7120 / ADV7120KSTZ30-REEL	ADV7160 / AD55/014-0	ADV7160 / ADV7160KS170
			SST-21062 / ADSST-21062KSZ-	SST-21062L / ADSST-21062LKS-	

ADV7183 / ADV7183KST	ADV7185 / ADV7185KST	SST-21062 / ADSST-21062KS-160	160	160	SST-AUDIO / ADSST-AUDIO-3000
SST-WLL / ADSST-DS-1002	SST-WLL / ADSST-DS10002				

Appendix B - Revision History

Rev	Publish Date	Rev Description
Rev. -	16-Jun-2009	Initial Release

Analog Devices, Inc.

DocId:644 Parent DocId:None