

 **National Products**
from Texas Instruments

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Dear Customer!

We are pleased to inform you that based on this notification you are now included in the new National Semiconductor Product / Process Change Notification Direct Mail Distribution. Based on contractual agreements between your company and National Semiconductor Corporation, you will be notified of changes affecting the products purchased from National Semiconductor Corporation.



FORECAST CHANGE NOTIFICATION

PCN # 20125301 Revision A

Title Of Change: Qualification of copper wire as alternate bonding material for selected products in MSOP Packages

Publish Date: 07/31/12

Revision History of PCN:

Rev	Action Date	User ID	Action Name	Action Comments
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A	07/30/2012	CJMKSC	Create PCN	

This is to inform you that a design and/or process change will be made to the following product(s). This notification is for your information and concurrence. This is a preliminary notification. A final PCN will be issued when qualification is complete and data is available.

If you require data or samples to qualify this change, please contact National Semiconductor within 30 days of receipt of this notification.

If you have any questions concerning this change, please contact:

For North America:

EMAIL : PCNAmericasContact@list.ti.com
PHONE : 1800-272-9959

For Europe :

EMAIL : PCNEuropeContact@list.ti.com
PHONE : 0800-676-2442

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PCN Requestor:

NAME : Hoe, TS

EMAIL : TS.Hoe@nsc.com

PHONE : 606-2515-116

CHANGE TYPE: Assy Direct Mat'l Standardization

PROPOSED 1st SHIP DATE

10/30/12

DESCRIPTION OF CHANGE AND PRODUCTS AFFECTED

The purpose of this Product Change Notification (PCN) is to inform you that copper wire is being qualified as an alternate bonding material for selected products in MSOP Packages:

Packages	Before	After
MSOP	Gold Wire (Au wire)	Gold and Copper Wire

This notification is another of several phases/customer notifications for Copper wire qualification that will occur in the coming year and contain selected products (non-military & non-automotive) from the MSOP package family. Refer to the part numbers affected section below for actual device listing.

REASON FOR CHANGE

The qualification of copper as an alternate bond wire 1) further supports the continuity of supply of all affected products and 2) serves to improve product performance through reduced bond wire impedance.

ANTICIPATED IMPACT ON FORM, FIT, FUNCTION, QUALITY, OR RELIABILITY (POSITIVE / NEGATIVE)

There is no change to the product quality or reliability. All current product specifications, performance parameters and characteristics will remain unchanged. The expectation is that there will not be an effect on customer applications.

Please note that the exact implementation date for each product will depend on a combination of the release schedule and inventory associated with the specific product.

SAMPLE AVAILABILITY DATE SCHEDULE

If you require samples or additional data to support your evaluation, please request within 30 days of this notification. The availability of samples will depend on the actual device(s) requested.

CHANGES TO PRODUCT IDENTIFICATION RESULTING FROM THIS PCN

Not applicable. After conversion, product may contain either Au or Cu bond wire with no discernable package or top marking for either.

During the customer qualification period for Cu bond wire conversion, Texas Instruments may switch customers to spec flow AULF (replace NOPB) and AUPB (replace standard PB plated) to assure product containing Au bond wire continues to be shipped until the customer qualification is complete.

QUALIFICATION PLAN NUMBERS

PART NUMBERS AFFECTED

LM2936MM-3.0	LM2936MM-3.3	LM2936MM-5.0
LM2936MMX-3.3	LM2936MMX-5.0	LM386MMX-1
LM555CMM	LM555CMMX	LM56BIMM
LM56BIMMX	LM56CIMM	LM56CIMMX
LM7322MM	LM7322MME	LM7322MMX
LM7332MM	LM7332MME	LM7332MMX
LM8262MM	LM8262MMX	LM8272MM
LM8272MMX	LM833MM	LM833MMX
LM9036MM-3.3	LM9036MM-5.0	LM9036MMX-3.3
LM9036MMX-5.0	LMC555CMM	LMC555CMMX
LMC6035IMM	LMC6035IMMX	LMC6482IMM
LMC6482IMMX	LMC6772AIMM	LMC6772AIMMX
LMC8101IMM	LMC8101IMMX	LP2951ACMM
LP2951ACMM-3.0	LP2951ACMM-3.3	LP2951ACMMX
LP2951ACMMX-3.0	LP2951ACMMX-3.3	LP2951CMM
LP2951CMM-3.0	LP2951CMM-3.3	LP2951CMMX
LP2951CMMX-3.0	LP2951CMMX-3.3	LP2975AIMM-3.3
LP2975AIMM-5.0	LP2975AIMMX-5.0	LP2975IMM-3.3
LP2975IMM-5.0	LP2975IMMX-5.0	

ATTACHMENTS

PCN MSOP_20120521-58641_20120525-59041.pdf

Customer	Spec	Cust Code	NSC Part	Customer Part
FUTURE ELECTRONICS CORP	NOPB	0003943942	LM56C1MM	LM56C1MM
FUTURE ELECTRONICS CORP	NOPB	0003943941	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943939	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP	NOPB	0003943938	LP2975AIMM-5.0	LP2975AIMM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943925	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943921	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943915	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943907	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943907	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943906	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM2936MM-5.0	LM2936MM-5.0
FUTURE ELECTRONICS CORP		0003943901	LM7322MME	LM7322MME
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7322MME	LM7322MME/NOPB
FUTURE ELECTRONICS CORP		0003943901	LM8262MM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM8272MM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM833MM	LM833MM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM9036MM-5.0	LM9036MM-5.0/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6482IMM	LMC6482IMM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP		0003943901	LMC6772AIMM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC8101MMX	LMC8101MMX
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM-3.0	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMM-3.3	LP2951CMM-3.3
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMMX	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMM-5.0	LP2975AIMM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943942	LMC8101MM	LMC8101MM
FUTURE ELECTRONICS CORP	NOPB	0003943939	LMC6772AIMMX	LMC6772AIMMX
FUTURE ELECTRONICS CORP	NOPB	0003943938	LMC8101MMX	LMC8101MMX
FUTURE ELECTRONICS CORP	NOPB	0003943932	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943910	LM2936MM-5.0	LM2936MM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943910	LM7322MM	LM7322MM
FUTURE ELECTRONICS CORP	NOPB	0003943907	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943905	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943904	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP		0003943901	LM2936MM-5.0	LM2936MM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM2936MM-5.0	LM2936MM-5.0/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM386MMX-1	LM386MMX-1
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7322MM	LM7322MM
FUTURE ELECTRONICS CORP		0003943901	LM7322MM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7322MME	LM7322MME
FUTURE ELECTRONICS CORP		0003943901	LM7332MME	LM7332MME
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM8272MM	LM8272MM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM833MM	LM833MM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6482IMMX	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC8101MMX	LMC8101MMX/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC8101MMX	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM-3.3	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMM	LP2951CMM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMMX-5.0	LP2975AIMMX-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975IIMM-3.3	LP2975IIMM-3.3/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943942	LM7322MM	LM7322MM
FUTURE ELECTRONICS CORP	NOPB	0003943942	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943937	LM7322MME	LM7322MME
FUTURE ELECTRONICS CORP	NOPB	0003943925	LM2936MM-3.3	LM2936MM-3.3
FUTURE ELECTRONICS CORP	NOPB	0003943923	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943921	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943908	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943907	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP	NOPB	0003943904	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM2936MM-3.3	LM2936MM-3.3/NOPB

FUTURE ELECTRONICS CORP	NOPB	0003943901	LM2936MM-3.3	
FUTURE ELECTRONICS CORP		0003943901	LM2936MM-3.3	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM2936MM-5.0	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM555CMM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM56BIMM	LM56BIMM/NOPB
FUTURE ELECTRONICS CORP		0003943901	LM7322MM	LM7322MM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7332MME	LM7332MME/NOPB
FUTURE ELECTRONICS CORP		0003943901	LM7332MME	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC555CMM	LMC555CMM
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC555CMMX	LMC555CMMX
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM-3.0	LP2951ACMM-3.0/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM-3.3	LP2951ACMM-3.3/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMMX	LP2951CMMX/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMM-3.3	LP2975AIMM-3.3
FUTURE ELECTRONICS CORP	NOPB	0003943960	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP	NOPB	0003943919	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943911	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943909	LMC6482IMMX	LMC6482IMMX
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FUTURE ELECTRONICS CORP		0003943901	LM2936MM-3.3	LM2936MM-3.3
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LM56CIMM	LM56CIMM/NOPB
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LM8262MMX	LM8262MMX/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM9036MM-5.0	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6035IMM	LMC6035IMM/NOPB
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6482IMM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6772AIMMX	LMC6772AIMMX
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMMX-3.3	LP2951CMMX-3.3
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975IMM-3.3	LP2975IMM-3.3
FUTURE ELECTRONICS CORP	NOPB	0003943933	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943923	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943917	LMC8101MMX	LMC8101MMX
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LM555CMM	LM555CMM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM56CIMM	LM56CIMM
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP		0003943901	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC8101MM	LMC8101MM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM-3.0	LP2951ACMM-3.0
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM-3.3	LP2951ACMM-3.3
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMM-3.3	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMMX-5.0	LP2975AIMMX-5.0/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943937	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943920	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943919	LP2975AIMM-5.0	LP2975AIMM-5.0
FUTURE ELECTRONICS CORP		0003943911	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943906	LP2975AIMMX-5.0	LP2975AIMMX-5.0
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7332MME	LM7332MME
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC555CMMX	LMC555CMMX/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6772AIMM	LMC6772AIMM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6772AIMMX	LMC6772AIMMX/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951ACMM	LP2951ACMM
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FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMM-3.3	LP2951CMM-3.3/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMMX-3.3	LP2951CMMX-3.3/NOPB

FUTURE ELECTRONICS CORP	NOPB	0003943960	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943942	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943919	LM2936MM-5.0	LM2936MM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943918	LM8262MMX	LM8262MMX
FUTURE ELECTRONICS CORP	NOPB	0003943916	LM7332MME	LM7332MME
FUTURE ELECTRONICS CORP	NOPB	0003943915	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943913	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943904	LM2936MM-5.0	LM2936MM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943904	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP		0003943901	LM2936MM-5.0	
FUTURE ELECTRONICS CORP		0003943901	LM555CMM	LM555CMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM56BIMM	LM56BIMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7322MM	LM7322MM/NOPB
FUTURE ELECTRONICS CORP		0003943901	LM7322MME	
FUTURE ELECTRONICS CORP		0003943901	LM8262MM	LM8262MM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM8262MM	LM8262MM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM9036MM-5.0	LM9036MM-5.0
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC555CMM	LMC555CMM/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6482IMMX	LMC6482IMMX/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6772AIMM	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC8101MM	LMC8101MM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMM-5.0	LP2975AIMM-5.0/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003943942	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943939	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943939	LMC6482IMM	LMC6482IMM
FUTURE ELECTRONICS CORP	NOPB	0003943938	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943936	LMC6482IMM	LMC6482IMM
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FUTURE ELECTRONICS CORP	NOPB	0003943933	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943927	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943924	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943921	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP	NOPB	0003943912	LMC6772AIMM	LMC6772AIMM
FUTURE ELECTRONICS CORP	NOPB	0003943910	LM7322MME	LM7322MME
FUTURE ELECTRONICS CORP	NOPB	0003943903	LMC6482IMMX	LMC6482IMMX
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM555CMM	LM555CMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM7332MME	
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM8262MMX	LM8262MMX
FUTURE ELECTRONICS CORP	NOPB	0003943901	LM8272MM	LM8272MM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LMC6035IMM	LMC6035IMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMM	LP2951CMM
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2951CMMX	LP2951CMMX
FUTURE ELECTRONICS CORP	NOPB	0003943901	LP2975AIMM-3.3	LP2975AIMM-3.3/NOPB
FUTURE ELECTRONICS CORP	NOPB	0003944013	LM56CIMM	LM56CIMM
FUTURE ELECTRONICS CORP	NOPB	0003944013	LP2975AIMM-3.3	LP2975AIMM-3.3

FORECAST Reliability Test Plan

Objective:

Qualification of copper wire as alternative bonding material in MSOP package.

Author:	LF Tang
Date:	23 July 2012
Qualification Plan#:	20120604-59667 20120605-59681

Qual Vehicle(s):	LMC6482IMM, LP2951ACMM, LM9036MM-5.0
Process Technology:	P2CMOS, SLM
Package-Leadcount:	MSOP 8 leads

Test/Methods	Conditions	End Measurement	Electrical Test (°C)	LMC6482IMM Sample Size	# of Lots	Electrical Test (°C)	LP2951ACMM Sample Size	# of Lots	Electrical Test (°C)	LM9036MM-5.0 Sample Size	# of Lots
Preconditioning JESD22-A113/J-STD-020	MSL 1, Reflow Temp 260°C		25	154	3	25	154	3	25	154	3
Precon + Autoclave (ACLV) JESD22-A102	121°C, 100%RH, 2 atm	96hrs	25	77	3	25	77	3	25	77	3
Precon + Temperature Cycle (TMCL) JESD22-A104	-65°C to 150°C	500cyc	25	77	3	25	77	3	25	77	3
Wire Bond Pull MIL-STD883 Method 2011				5	3		5	3		5	3