12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20130909000
Qualification of selected TSSOP devices in TI Malaysia
Change Notification / Sample Request

Date: 9/27/2013
To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI’s standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20130909000
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LM25574MTX/NOPB	LM25574MTX NOPB
LM2737MTCX/NOPB	LM2737MTCX NOPB
LM2742MTCX/NOPB	LM2742MTCX NOPB
LM2743MTCX/NOPB	LM2743MTCX NOPB
LM2743MTCX/NOPB	LM2743MTCX/NOPB
LM5025AMTCX/NOPB	LM5025AMTCX NOPB
LM5025AMTCX/NOPB	LM5025AMTCX/NOPB
LM5025CMTCE/NOPB	LM5025CMTCE NOPB
LM5025CMTCE/NOPB	LM5025CMTCE/NOPB
LM5025MTCX/NOPB	LM5025MTCX NOPB
LM5025MTCX/NOPB	LM5025MTCX/NOPB
LM5026MTX/NOPB	LM5026MTX NOPB
LM5071MTX-80/NOPB	LM5071MTX-80 NOPB
LM5071MTX-80/NOPB	LM5071MTX-80/NOPB
LM5574MTX/NOPB	LM5574MTX NOPB
LM5574MTX/NOPB	LM5574MTX/NOPB
LMH6644MTX/NOPB	LMH6644MTX NOPB
LMH6683MTX/NOPB	LMH6683MTX NOPB
LMV324MTX/NOPB	LMV324MTX NOPB
LMV324MTX/NOPB	LMV324MTX/NOPB
LMV344MTX/NOPB	LMV344MTX NOPB
LMV774MTX/NOPB	LMV774MTX NOPB
LMV774MTX/NOPB	LMV774MTX/NOPB
LMV824MTX/NOPB	LMV824MTX NOPB
LMV824MTX/NOPB	LMV824MTX/NOPB
LMV934MTX/NOPB	LMV934MTX NOPB
LMV934MTX/NOPB	LMV934MTX/NOPB

Technical details of this Product Change follow on the next page(s).

PCN Number:	20130909000	**PCN Date:**	09/27/2013

Title:	Qualification of selected TSSOP devices in TI Malaysia

Customer Contact:	PCN Manager	**Phone:**	+1(214)480-6037	**Dept:**	Quality Services
Proposed 1st Ship Date:	12/27/2013	**Estimated Sample Availability:**	12/20/2013		

Change Type:

☒	Assembly Site	☐	Assembly Process	☒	Assembly Materials
☐	Design	☐	Electrical Specification	☐	Mechanical Specification
☐	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process
		☐	Part number change		

PCN Details

Description of Change:

Qualification of TI Malaysia as an additional assembly/test site for selected devices in the TSSOP family. Material differenced are noted below:

	TI Melaka	Amkor	Unisem	TI Malaysia
Mold Compound	8095181	101374416	47160037	**4206193**
Mount Compound	8075531	101374994	47000003	**4042500**
Lead Finish	Matte Sn	Matte Sn	Matte Sn	**NiPdAu**

Upon expiry of this PCN TI will combine lead free solutions in a single ***standard part number***, for example; ***LM25574MTX/NOPB*** – can ship with both Matte Sn and NiPdAu/Ag.

Example:

- Customer order for 7500units of LM25574MTX/NOPB with 2500 units SPQ (Standard Pack Quantity per Reel).

- TI can satisfy the above order in one of the following ways.
    I. 3 Reels of NiPdAu finish.
    II. 3 Reels of Matte Sn finish
    III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish.
    IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish.

Reason for Change:

Business Continuity

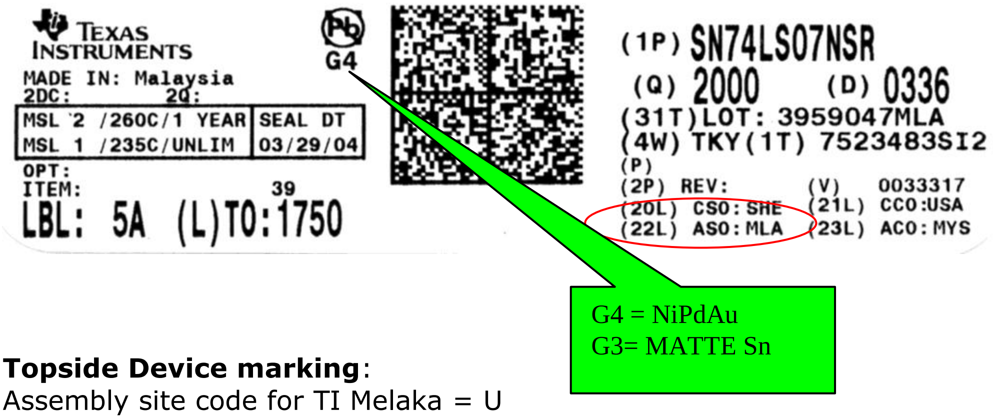
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Assembly Site		
TI Melaka	Assembly Site Origin (22L)	ASO: CU6
Unisem	Assembly Site Origin (22L)	ASO: UNM
Amkor	Assembly Site Origin (22L)	ASO: AKR
TI Malaysia	Assembly Site Origin (22L)	ASO: MLA

Sample product shipping label (not actual product label)



TEXAS INSTRUMENTS
MADE IN: Malaysia
2DC: 2Q:

MSL 2 /260C/1 YEAR	SEAL DT
MSL 1 /235C/UNLIM	03/29/04

OPT:
ITEM: 39
LBL: 5A (L)TO:1750

G4

(1P) SN74LS07NSR
(Q) 2000 (D) 0336
(31T)LOT: 3959047MLA
(4W) TKY(1T) 7523483SI2
(P)
(2P) REV: (V) 0033317
(20L) CSO: SHE (21L) CCO:USA
(22L) ASO: MLA (23L) ACO: MYS

G4 = NiPdAu
G3= MATTE Sn

Topside Device marking:
Assembly site code for TI Melaka = U
Assembly site code for Unisem = H
Assembly site code for Amkor = 4 or Z
Assembly site code for TI Malaysia = K

Product Affected:

LM25574MTX/NOPB	LM3447MTX/NOPB	LM5025MTCX/NOPB	LMH6683MTX/NOPB
LM2727MTCX/NOPB	LM3450AMTX/NOPB	LM5026MTX/NOPB	LMV324MTX/NOPB
LM2737MTCX/NOPB	LM3450MTX/NOPB	LM5071MTX-50/NOPB	LMV344MTX/NOPB
LM2742MTCX/NOPB	LM5025AMTCX/NOPB	LM5071MTX-80/NOPB	LMV774MTX/NOPB
LM2743MTCX/NOPB	LM5025BMTCX/NOPB	LM5574MTX/NOPB	LMV824MTX/NOPB
LM2745MTCX/NOPB	LM5025CMTCE/NOPB	LME49743MTX/NOPB	LMV934MTX/NOPB
LM2747MTCX/NOPB	LM5025CMTCX/NOPB	LMH6644MTX/NOPB	

Qualification Plan

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	**Start:**	September 2013	**End:**	December 2013

Qualification Device: LM3447MTX/NOPB (MSL 1-260C)

Package Construction Details

Assembly Site:	TI Malaysia A/T	Mold Compound:	4206193
# Pins-Designator, Family:	14-PW, TSSOP	Mount Compound:	4208458
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: ☒ **Plan** ☐ **Test Results**

Reliability Test	Conditions	Sample Size / Fail
Electrical Characterization	Datasheet	30/0
**High Temp. Storage Bake	170C (420hrs)	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0

Notes: **Tests require preconditioning sequence: MSL1-260C

Qualification Plan

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	**Start:**	September 2013	**End:**	December 2013

Qualification Device: LM3450MTX/NOPB (MSL 1-260C)

Package Construction Details

Assembly Site:	TI Malaysia A/T	Mold Compound:	4206193
# Pins-Designator, Family:	16-PW, TSSOP	Mount Compound:	4208458
Lead Finish:	NiPdAu	Bond Wire:	1.3 Mil Dia., Au

Qualification: ☒ **Plan** ☐ **Test Results**

Reliability Test	Conditions	Sample Size / Fail		
		Lot 1	Lot 2	Lot 3
Electrical Characterization	Datasheet	30/0	--	--
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0

Notes: **Tests require preconditioning sequence: MSL1-260C

Qualification Plan

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	**Start:**	September 2013	**End:**	December 2013

Qualification Device: LM5026MTX/NOPB (MSL 1-260C)

Package Construction Details

Assembly Site:	TI Malaysia A/T	Mold Compound:	4206193
# Pins-Designator, Family:	16-PW, TSSOP	Mount Compound:	4208458
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: ☒ **Plan** ☐ **Test Results**

Reliability Test	Conditions	Sample Size / Fail		
		Lot 1	Lot 2	Lot 3
HTOL	125C (1000 Hrs)	77/0	77/0	77/0
Electrical Characterization	Datasheet	30/0	--	--
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0

Notes: **Tests require preconditioning sequence: MSL1-260C

Qualification Plan

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	**Start:**	September 2013	**End:**	December 2013

Qualification Device: LMH6644MTX /NOPB (MSL 1-260C)

Package Construction Details

Assembly Site:	TI Malaysia A/T	Mold Compound:	4206193
# Pins-Designator, Family:	14-PW, TSSOP	Mount Compound:	4208458
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: ☒ **Plan** ☐ **Test Results**

Reliability Test	Conditions	Sample Size / Fail
Electrical Characterization	Datasheet	30/0

Notes: **Tests require preconditioning sequence: MSL1-260C

Qualification Plan

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	**Start:**	September 2013	**End:**	December 2013

Qualification Device: LMV934MTX/NOPB (MSL 1-260C)

Package Construction Details

Assembly Site:	TI Malaysia A/T	Mold Compound:	4206193
# Pins-Designator, Family:	14-PW, TSSOP	Mount Compound:	4208458
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: ☒ **Plan** ☐ **Test Results**

Reliability Test	Conditions	Sample Size / Fail
Electrical Characterization	Datasheet	30/0
**High Temp. Storage Bake	170C (420hrs)	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0

Notes: **Tests require preconditioning sequence: MSL1-260C

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	**E-Mail**
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com