

PCN Number:	20130909000B		PCN Date:	06/16/2014																
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:	09/16/2011	Estimated Sample Availability:	Available upon request																	
Change Type:																				
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials															
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification															
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process															
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process															
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process															
	<input type="checkbox"/>		Part number change																	
PCN Details																				
Description of Change:																				
<p>Revision B is to announce the <u>addition</u> of pack variations of the devices that were included on the original PCN notification. These pack variation devices are highlighted and bolded in the device list below. The expected first shipment date for these new devices will be 90 days from this notice for these newly added devices only.</p> <p>Qualification of TI Malaysia as an additional assembly/test site for selected devices in the TSSOP family. Material differenced are noted below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>TI Melaka</th> <th>Unisem</th> <th>TI Malaysia</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>8095181</td> <td>47160037</td> <td>4206193</td> </tr> <tr> <td>Mount Compound</td> <td>8075531</td> <td>47000003</td> <td>4042500</td> </tr> <tr> <td>Lead Finish</td> <td>Matte Sn</td> <td>Matte Sn</td> <td>NiPdAu</td> </tr> </tbody> </table> <p>Upon expiry of this PCN TI will combine lead free solutions in a single <u>standard part number</u>, for example; <u>LM25574MTX/NOPB</u> – can ship with both Matte Sn and NiPdAu/Ag.</p> <p>Example:</p> <ul style="list-style-type: none"> – 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. <ul style="list-style-type: none"> 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. 						TI Melaka	Unisem	TI Malaysia	Mold Compound	8095181	47160037	4206193	Mount Compound	8075531	47000003	4042500	Lead Finish	Matte Sn	Matte Sn	NiPdAu
	TI Melaka	Unisem	TI Malaysia																	
Mold Compound	8095181	47160037	4206193																	
Mount Compound	8075531	47000003	4042500																	
Lead Finish	Matte Sn	Matte Sn	NiPdAu																	
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
TI Malaysia	Assembly Site Origin (22L)	ASO: MLA

Sample roduct 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)T0:1750

(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 TI Malaysia = **K**

Product Affected:

LM25574MT/NOPB	LM3447MTX/NOPB	LM5026MTX/NOPB	LMV344MT/NOPB
LM25574MTX/NOPB	LM3450AMT/NOPB	LM5071MT-50/NOPB	LMV344MTX/NOPB
LM2727MTC/NOPB	LM3450AMTX/NOPB	LM5071MT-80/NOPB	LMV604MT/NOPB
LM2727MTCX/NOPB	LM3450MT/NOPB	LM5071MTX-50/NOPB	LMV604MTX/NOPB
LM2737MTC/NOPB	LM3450MTX/NOPB	LM5071MTX-80/NOPB	LMV614MT/NOPB
LM2737MTCX/NOPB	LM5025AMTC/NOPB	LM5574MT/NOPB	LMV614MTX/NOPB
LM2742MTC/NOPB	LM5025AMTCX/NOPB	LM5574MTX/NOPB	LMV774MT/NOPB
LM2742MTCX/NOPB	LM5025AMTCX/S7002719	LME49743MT/NOPB	LMV774MTX/NOPB
LM2743MTC/NOPB	LM5025BMTC/NOPB	LME49743MTX/NOPB	LMV824MT/NOPB
LM2743MTCX/NOPB	LM5025BMTCX/NOPB	LMH6644MT/NOPB	LMV824MTX/E7000973
LM2745MTC/NOPB	LM5025CMTC/NOPB	LMH6644MTX/NOPB	LMV824MTX/NOPB
LM2745MTCX/NOPB	LM5025CMTCE/NOPB	LMH6683MT/NOPB	LMV824MTX/S7001910
LM2747MTC/NOPB	LM5025CMTCX/NOPB	LMH6683MTX/NOPB	LMV934MT/NOPB
LM2747MTCX/NOPB	LM5025MTC/NOPB	LMV324MT/NOPB	LMV934MTX/NOPB
LM3447MT/NOPB	LM5025MTCX/NOPB	LMV324MTX/NOPB	LV16000MTX/NOPB
LM3447MTE/NOPB	LM5026MT/NOPB		

Qualification Data – #1

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 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:	4042500
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions	Sample Size / Fail	
Electrical Characterization	Datasheet	Pass	
**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 Data – #2

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 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:	4042500	
Lead Finish:	NiPdAu	Bond Wire:	1.3 Mil Dia., Au	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size / Fail		
Electrical Characterization	Datasheet	Lot 1	Lot 2	Lot 3
**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 Data – #3

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 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:	4042500
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> 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	Pass	--	--
**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 Data – #4

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 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:	4042500
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size / Fail
Electrical Characterization	Datasheet	Pass

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

Qualification Data – #5

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 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:	4042500
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size / Fail
Electrical Characterization	Datasheet	Pass
**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