PCN Number:			20130909000					PCN Da	te:	09/27/2013		
Title: Qualification			of selected TSSOP devices in TI Malaysia									
Custo	PC	PCN Manager Phone: +1(214)480-6037					Dept:	Dept: Quality Services				
Propo	ate:	te: 12/27/2013 Estimated Sample A						Availabili	tv:	12/20/2013		
Change Type:												
	ssembly Site				Assembly Process			\square	Assembly Materials			
Design				Electrical Specification						Mechanic	al S	pecification
	est Site			Pac	king/	g/Shipping/Labeling				Test Process		
<u> </u>	Vafer Bump Site			Waf	er Bu	Bump Material			<u> </u>	Wafer Bump Process		
	Vafer Fab Site			_ Water Fab Materials					Water Fab Process			
Descr	intion of Chan	10'				PCNL	Jetan	3				
Qualification of TI Malaysia as an additional assembly/test site for selected devices in the TSSOP family. Material differenced are noted below:												
Mold	Compound	8005181				AMKOF UN 101374/16 /71		4716	ISEM		1 Malaysia 4206102	
Mou	nt Compound	8	8075531			1013749	94	4700000		4042		2500
Lead	Lead Finish			te Sn		Matte S	'n	Matt	e Sn		NiP	dAu
 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. 3 Reels of NiPdAu finish. 3 Reels of Matte Sn finish 2 Reels of Matte Sn and 1 reel of NiPdAu finish. 2 Reels of NiPdAu and 1 reel of Matte Sn finish. 												
Reason for Change:												
Busine	ess Continuity				<u>.</u>							
Antici	ipated impact o	on F	or	m, Fit	, Fur	nction, Q	Quality	or Rel	iabi	lity (posit	ive	/ negative):
None												
Changes to product identification resulting from this PCN:												
Assembly Site												
TI Melaka				Assembly Site Origin (22L)					ASO: CU6			
Unise	Unisem				Assembly Site Origin (22L)			ASO:			UNM	
Amkor				Assembly Site Origin (22L)					ASO: AKR			
TI Ma	TI Malaysia				Asse	ssembly Site Origin (22L)			ASO: MLA			

Sample product shipping label (not actual product label) TEXAS INSTRUMENTS MADE IN: Malaysia 20: MSL '2 /260C/1 YEAR SEAL DT MSL '2 /260C/1 YEAR SEAL DT MSL '2 /260C/1 YEAR SEAL DT 03/29/04 OPT: ITEM: BL: 5A (L)T0:1750 (not actual product label) (1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P) (2P) REV: (V) 0033317 (2DL CS0: SHE (2L) CCO:USA (2L) ASO: MLA (23L) ACO: MYS							
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							
	3447MTX/NOPB						
	3450AMTX/NOPB						
	3450MTX/NOPB	IM5071MTX-50/NOPB					
	50254MTCX/NOPB	LM5071MTX-80/NOPB					
	5025RMTCX/NOPB		LMV824MTX/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 2013End:December 2013							
Qualification Device: LM3447MTX/NOPB (MSL 1-260C)							
	Package Cons	struction Details					
Assembly Site: 1	TI Malaysia A/T	Mold Compound:	4206193				
# Pins-Designator, Family: 1	14-PW, TSSOP	Mount Compound:	4208458				
Lead Finish:	NiPdAu	Bond Wire:	1.0 Mil Dia., Au				
Qualification: 🛛 Plan 🗌 Test Results							
Reliability Test	Conditions	Conditions					
Electrical Characterization	Datasheet	Datasheet					
**High Temp. Storage Bake	170C (420hrs)	170C (420hrs)					
**Autoclave 121C	121C, 2 atm (9	121C, 2 atm (96 Hrs)					
**T/C -65C/150C	-65C/+150C (5	-65C/+150C (500 Cyc)					
Notes: **Tests require preco	onditioning sequenc	e: MSL1-260C	•				

Qualification Plan										
This qualification has been specifically developed for the validation of this change. The qualification data										
validates that the proposed ch	lange	meets the				cincations.	ITICATIONS.			
Qualification Schedule:	tart: September 2013 End: D			Decembe	December 2013					
Qualification Device: LM3450MTX/NOPB (MSL 1-260C)										
	Package Construction Details									
Assembly Site:	laysia A/T	•	Mold	4206193	4206193					
# Pins-Designator, Family:	16-PV	V, TSSOP Mount Compound:			4208458					
Lead Finish:	Bond Wire:				1.3 Mil Dia., Au					
Qualification: 🛛 Plan 🗌 Test Results										
Reliability Test		Conditio	ons			Sample Size / Fail				
						Lot 1	Lot 2	Lot 3		
Electrical Characterization		Datashe	eet	<u> </u>		30/0				
**High Temp. Storage Bak	1210 (2	420 H	rs)		77/0	77/0	77/0			
	121C, 2	$\frac{2}{1}$ atm	(96 Hrs)		77/0	77/0	77/0			
** I/L -55L/+15UL (500 Lyc) ///0 ///0 Notos: **Tosts require preconditioning sequence: MSL1_260C										
Notes. Tests require pret	conun			ation Plan	C					
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:	tart: September 2013 End: D				Decembe	December 2013				
Qualification Device: LM5026MTX/NOPB (MSL 1-260C)										
Package Construction Details										
Assembly Site:	laysia A/T Mold Compound:			4206193						
# Pins-Designator, Family:	V, TSSOP Mount Compound:			4208458						
Lead Finish:	u Bond Wire:				1.0 Mil Dia., Au					
Qualification: 🛛 Plan 🗌 Test Results										
Reliability Test	Conditions				Sam	Sample Size / Fail				
					Lot 1	Lot 2	Lot 3			
HIOL	125C (1000 Hrs)				///0	///0	///0			
Electrical Characterization					30/0					
	130C/85%RH (96 Hrs)				77/0	77/0	77/0			
	1210 - 2 atm (96 Hrs)				77/0	77/0	77/0			
**T/C -65C/150C	-650/+1500 (500 0vc)				77/0	77/0	77/0			
Notes: **Tests require pred	condit	ionina se	auen	ce: MSL1-260	С	,,,0	,,,0	,,,0		

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: Dece			mber 2013			
Qualificat	ion	Device: L	MH66	44MTX /NO	PB (MS	L 1-2	60C)	
Package Construction Details								
Assembly Site:	1alaysia A/1	Г	Mold Compound: 420			6193		
# Pins-Designator, Family:	14-	PW, TSSOF	D	Mount Compound: 420			8458	
Lead Finish:	NiPo	dAu			Bond Wire:	1.0) Mil Dia., Au	
Qualification: 🛛 Plan] Test Re	sults	•				
Reliability Test	Conditio	ons				Sample Size / Fail		
Electrical Characterization	Datashe	et				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: Dece			Dece	mber 2013		
Qualification Device: LMV934MTX/NOPB (MSL 1-260C)								
Package Construction Details								
Assembly Site:	1alaysia A/1	Г	Mold	Compound:	420	4206193		
# Pins-Designator, Family:	14-	PW, TSSO	C	Mount Compound: 4			208458	
Lead Finish:	dAu	Au Bond Wire: 1.0) Mil Dia., Au			
Qualification: 🛛 Plan 🗌 Test Results								
Reliability Test	Conditio	ons	Sample Size / Fail					
Electrical Characterization	Datashe	et	30/0					
**High Temp. Storage Bak	170C (4	20hrs	77/0					
**Autoclave 121C	121C, 2	atm (77/0					
**T/C -65C/150C	-65C/+3	150C (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