PCN Number:			20130507001						PCN Da	te:	05/09/2013			
Title: Qualification DSBGA packa				of JCAP as Alternate Assembly and test Site for selected products in ge										
Customer Contact:			PCN Manager Phone: +1(214)480-6037							Dept:	Qu	ality Services		
Proposed 1 st Ship Da			te:								05/09/2013			
Change Type:														
\square	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 Fab Materials					Wafer Bump Process Wafer Fab Process			
	Wafe	er Fab Site						Water Fal	o Pro	ocess				
_						PCN	Details							
Des	script	ion of Chang	e:											
Qua	alificat	tion of JCAP as	s an	n al	ternate bacl	kend a	ssembly and te	est	sit	e.				
						T	Melaka-AT		JCAP-A	т				
		So	de	r B	all:		SnAgCu			SnAgC				
Rea	Reason for Change:													
Continuity of Supply														
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):														
Nor	None													
Changes to product identification resulting from this PCN:														
	somb	ly Site												
	EM-A		Assembly Site Origin (22L)							۸	CU6			
JCAP-AT						nbly Site Origin (22L)					<u>.</u> SO:			
				-		2								
<u>Sar</u>	<u>nple</u>	<u>product ship</u>	<u>pin</u>	g	abel to sho	<u>w coo</u>	le location on	ly	- 1	<u>iot actua</u>	pro	<u>duct label</u>		
TEXAS INSTRUMENTS MADE IN: Philippines 20: 20: 20: C MSL 3 /260C/168 HR SEAL DT 10/11/11 OPT: IEM: 030DB107CHR-08 19 LBL: 1A (L)T0:1168 (1P) PTWL6030DB107CHR (0) 1908 (D) 1136 (31T) LOT: 1606673PHI (4W) SWR(1T) 8550440Z48 (P) (2P) REV: A (V) 0033317 (20L) CS0: RFB (21L) CC0: USA (2L) AS0: PHI (23L) AD0: PHL														
Product Affected:														
	LM10524TME/NOPB			LM3630TME/NOPE			B LM3642TLX-LT/NG			B 1 P590	K-2.8/NOPB			
	LM10524TML/NOPB			LM3630TMX/NOPB							K-3.1/NOPB			
	LM3630ATME				542TLE-LT/NC		LP5907UVX-1.2/NOP					K-4.5/NOPB		
	LM3630ATM2				542TLE/NOPB		LP5907UVX-1.8			/				

This gualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications. Qual Vehicle: LM3564A1TME/NOPB (MSL1-260C) **Qualification Schedule:** Start: April 2013 End: July 2013 Package Construction Details Assembly & Bump Site: JCAP **Bump Composition:** SnAgCu # Pins-Designator, Family: 20-YFQ, DSBGA Bump Diameter: 0.25mm 🛛 Plan **Test Results Qualification:** Reliability Test Conditions Sample Size/Fail 77/0 77/0 77/0 High Temp. Operating Life 125C (1000hrs) 30/0 _ _ --**Electrical Characterization** Per Datasheet specifications 77/0 High Temp. Storage Bake 150C (1000 Hrs) ----77/0 77/0 **Biased HAST 77/0 130C/85%RH (96 Hrs) **T/C -55C/125C 77/0 77/0 77/0 -55C/+125C (700 Cyc) +/- 250 3/0 3/0 3/0 ESD CDM 3/0 3/0 3/0 +/- 1000V ESD HBM Latch-up (25C, 70C, 125C) $> 2 \times V d n om and > 2 \times I d n om @ max T j$ 6/0 6/0 6/0 Notes: **Tests require preconditioning sequence: MSL1-260C **Oualification Results** 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. Start: **Qualification Schedule:** January 2012 End: April 2012 **Qualification Device: LP5907UVE** (MSL 1-260C) **Package Construction Details** Assembly & Bump Site: JCAP **Bump Composition:** SnAqCu # Pins-Designator, Family: 4 - YKE, DSBGA **Bump Diameter:** 0.20mm **Qualification:** Plan 🛛 Test Results Sample Size / Fail **Reliability Test** Conditions Lot 2 Lot 1 Lot 3 High Temp. Operating Life 125C (1000hrs) 77/0 ----77/0 80/0 80/0 **Autoclave 121C 121C, 1 atm (96 Hrs) 77/0 77/0 78/0 * * THBT 85C/85% **T/C -40C/125C 76/0 80/0 80/0 -40C/+125C (1000 Cyc) 2000V, 1.5K Ohm, 100pF 3/0 ESDH ----ESDM 200V, 0 Ohm, 200pF 3/0 ----I & OV test @ Max Op. Temp Latch-up 6/0 - -- -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:	Star	t:	January 2012		End:	April 20	April 2012		
Qualification Device: BP64UKE (MSL 1-260C)									
Package Construction Details									
Assembly & Bump S	Site:	JCA	٨P	Bump Composition			SnAgCu		
# Pins-Designator, Far	nily:	4 - YKE, DSBGA			Bump Di	0.20mm			
Qualification: 🗌 Plan 🛛 Test Results									
Reliability Test		Conditions				Sample Size / Fail			
Board Level Drop						pass			
Board Level TMCL						pass			

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

Qualification Results