PCN Number:	20	20130708001					PCN Date:		07/15/2013	
Title:Qualification of JCAP as an Additional Assembly, Bump, and Test site for Select Devices on WCSP Package										
Customer Conta	ct: <u>PC</u>	PCN Manager Phone: +1(214)480-6037 Dept: Quality Services								
Proposed 1 st Ship Date: 10/15/2013 Estimated Sample Availability: Date Provided Sample request					e Provided at ple request					
Change Type:										
Assembly Sit	е		Assembly Process Assembly Materials				erials			
Design			Electrical Specification Mechanical Specificati				ecification			
Test Site			Packing/Ship	ping/Labeling			Test Proce	ess		
Wafer Bump	Site		Wafer Bump Material Wafer Bump Process				rocess			
Wafer Fab Si	te		Wafer Fab M	aterials			Wafer Fab) Pro	cess	
			PC	N Details						
Description of C	hange:									
Group 1 Device: Current Assembly – TI Clark Clark-AT JCAP-AT										
Bump Site Clark-BP			ark-BP		JCAP-FAB					
Solder Ball 4207848 MA22008110				110						
Group 2 Device: Current Assembly – SCSAT										
			SCS-AT			JC	JCAP-AT			
Bump Site	Bump Site			CS-BP			JCA	P-F	AB	
Solder Ball 014461D MA22008110				110						
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.										
Reason for Change:										
Continuity of supply.										
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):										
	act on F	or	m, Fit, Functio	on, Quality or Re	lia	abi	ility (posit	ive	/ negative):	

Changes to product identification resulting from this PCN:					
Assembly Site					
SCS-AT	Assembly Site Origin (22L)	ASO: STS			
Clark-AT	Assembly Site Origin (22L)	ASO: QAB			
JCAP-AT	Assembly Site Origin (22L)	ASO: JCP			
Sample product shipping label to show code location only - not actual product label					
TEXAS INSTRUMENTS ADDE IN: Philippines 20: MSL 3 /260C/168 HR SEAL DT 10/11/11 OPT: ITEM: 030DB107CMR-08 19 LBL; 1A (L)TO:1168 (1P) PTWL6030DB107CMR (0) 1908 (D) 1136 (31T) LOT: 1606673PHI (4W) SWR(1T) 8550440Z48 (P) (2P) REV: A (V) 0033317 (20L) CSO: RFB (21L) CCO: USA (22L) ASO: PHI (23L) ACO: PHL					
Assembly Site Code: Clark-AT=	I, JCAP-AI=P				
Product Affected:					
Group 1 Device: Current Assembly – TI Clark					
TPS22908YZTR TPS2	2908YZTT				

 Group 2 Device: Current Assembly – SCSAT

 TPS22903YFPR
 TPS22904YFPR
 TPS22904YFPT
 TS5A12301EYFPR

Qualification Data – Group 1 Device

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.

Qual Vehicle : TS3DS26227YZT (MSL1-260C)						
Package Construction Details						
Assembly & Bump Site:	JCAP	Bump Co	mposition:	SnAg	Cu	
# Pins-Designator, Family:	12-YZT, WCSP/DSBGA	Bump Diameter:		0.25mm		
Qualification: 🗌 Plan 🛛 Test Results						
Poliability Tost	Conditions		Sample Size/Fail			
Reliability rest			Lot 1	Lot 2	Lot 3	
**Steady-state Life Test	150C (300 Hrs)		116/0	116/0	116/0	
**High Temp. Storage Bake	170C (420hrs)		77/0	77/0	77/0	
**Biased HAST	130C/85%RH (96 Hrs)		77/0	77/0	77/0	
**Unbiased HAST	130C/85%RH (96 Hrs)		77/0	77/0	77/0	
**Temperature Cycle	-55C/+125C (1000 Cyc)		77/0	77/0	77/0	
Manufacturability (Assembly)	acturability (Assembly) (per mfg site specifications)		Pass	Pass	Pass	
Moisture Sensitivity MSL1-260C			12/0	12/0	12/0	
** Moisture Preconditioning (MSL1-260C)						

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.							
	Qual Vehicle : CD3239 (MSL1-260C)					
Package Construction Details							
Assembly & Bump Site:	JCAP	Bump Composition:		SnAgCu			
# Pins-Designator, Family:	25-YFP, WCSP/DSBGA	Bump	Bump Diameter:		0.25mm		
Qualification: 🗌 Plan 🛛 Test Results							
Poliability Test	Conditions		Sample Size/Fail				
Reliability Test			Lot 1	Lot 2	Lot 3		
**Steady-state Life Test	150C (300 Hrs)		116/0	116/0	116/0		
**High Temp. Storage Bake	150C (1000hrs)		77/0	77/0	77/0		
**Biased HAST	130C/85%RH (96 Hrs)		77/0	77/0	77/0		
**Unbiased HAST	130C/85%RH (96 Hrs)		77/0	77/0	77/0		
**Temperature Cycle	-55C/+125C (1000 Cyc)		77/0	77/0	77/0		
Manufacturability (Assembly)	(per mfg site specifications)		Pass	Pass	Pass		
Moisture Sensitivity	MSL1-260C	12/0	12/0	12/0			
** Moisture Preconditioning (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