

PCN Number:	20130730000			PCN Date:	08/02/2013
Title:	Alternate Assembly Site Qualification				
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037	Dept:	Quality Services
Proposed 1st Ship Date:	11/02/2013	Estimated Sample Availability:	09/02/2013		
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input 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
PCN Details					
Description of Change:					
Qualification of TI Taiwan and TI Malaysia as an alternate Assembly sites for select devices as shown below. The material set will remain unchanged for both groups.					
Reason for Change:					
Continuous Customer Supply					
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):					
None					
Changes to product identification resulting from this PCN:					
Group 1					
Assembly Site					
TI Malaysia		Assembly Site Origin (22L)		ASO: MLA	
TI Taiwan		Assembly Site Origin (22L)		ASO: TAI	
Group 2					
Assembly Site					
TI Clark (Philippines)		Assembly Site Origin (22L)		ASO: OAB	
TI Malaysia		Assembly Site Origin (22L)		ASO: MLA	
Sample product shipping label (not actual product label)					
<p> 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 G4 (1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY(1T) 7523483S12 (P) (2P) REV: (V) 0033317 (20L) CSO: SRE (21L) CCO: USA (22L) ASO: MLA (23L) ACO: MYS </p>					
Topside Device marking:					
Assembly site code for TI Clark = I					
Assembly site code for TI Malaysia = K					
Assembly site code for TI Taiwan = T					

Product Affected:			
Group 1: Adding TI Taiwan			
HPA00694DBTR	HPA00954DBTR	TPD12S521DBTR/2354	TPD12S521DBTRG4
HPA00885DBTR	TPD12S521DBTR		
Group 2: Adding TI Malaysia			
TXS02326AMRGER			

TI Taiwan Qualification Data: Approved July 2013			
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: TPD12S521DBTR (MSL2-260C)			
Package Construction Details			
Assembly Site:	TAI	Mold Compound:	4206193
# Pins-Designator, Family:	38-DBT, TSSOP	Mount Compound:	4042500
Lead Finish:	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions	Sample Size / Fail	
Electrical Characterization	Per PDS range	Pass	
X-ray	(top side only)	Pass	

TI Taiwan Reference Qualification Data: Approved January 2008				
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: BQ8015DBT (MSL 2-260c)				
Package Construction Details				
Assembly Site:	TAI	Mold Compound:	4206193	
# Pins-Designator, Family:	38-DBT, TSSOP	Mount Compound:	4042500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size / Fail		
		Lot 1	Lot 2	Lot 3
**High Temp Operating Life	155C (240 Hrs)	40/0	40/0	40/0
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	40/0	40/0	40/0
**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
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Notes: **Tests received preconditioning sequence: MSL2-260C				

TI Malaysia Qualification Data: Approved July 2013			
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: TXS02326AMRGER (MSL2-260C)			
Package Construction Details			
Assembly Site:	MLA	Mold Compound:	4208625
# Pins-Designator, Family:	24-RGE, VQFN	Mount Compound:	4205846
Lead Finish:	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions	Sample Size / Fail	
Electrical Characterization	Per PDS range	Pass	
X-ray	(top side only)	Pass	

TI Malaysia Reference Qualification Data: Approved March 2007				
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: TSC2200RHB (MSL 2-260c)				
Package Construction Details				
Assembly Site:	MLA	Mold Compound:	4208625	
# Pins-Designator, Family:	24-RGE, VQFN	Mount Compound:	4205846	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size / Fail		
		Lot 1	Lot 2	Lot 3
**Steady-state Life Test	150C (168, 300 Hrs)	116/0	116/0	116/0
**High Temp. Storage Bake	150C (1000 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	40/0	40/0	40/0
**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 received preconditioning sequence: MSL2-260C				

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