




PCN Number:	20160322000		PCN Date:	04/6/2016												
Title:	Qualify TI Chengdu (CDAT) as an additional Assembly & Test site for select devices															
Customer Contact:	PCN Manager	Dept:	Quality Services													
Proposed 1st Ship Date:	07/6/2016	Estimated Sample Availability:	Provided 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 checked="" type="checkbox"/>	Test Site	<input checked="" 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:																
Texas Instruments is pleased to announce the qualification of TI Chengdu (CDAT) as an additional Assembly & Test site for the list of devices shown below. Material differences as follows:																
<table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin</th> <th>Assembly Country Code</th> <th>Assembly City</th> </tr> </thead> <tbody> <tr> <td>TI Clark</td> <td>QAB</td> <td>PHL</td> <td>Angeles City</td> </tr> <tr> <td>TI Chengdu</td> <td>CDA</td> <td>CHN</td> <td>Chengdu</td> </tr> </tbody> </table>					Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly City	TI Clark	QAB	PHL	Angeles City	TI Chengdu	CDA	CHN	Chengdu
Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly City													
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Material Differences:																
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Mount Compound	4207768	4207123														
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Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.																
Reason for Change:																
Continuity of Supply																
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):																
None																
Anticipated impact on Material Declaration																
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website .													
Changes to product identification resulting from this PCN:																
<table border="1"> <thead> <tr> <th colspan="3">Assembly Site</th> </tr> </thead> <tbody> <tr> <td>TI Clark Philippines</td> <td>Assembly Site Origin (22L)</td> <td>ASO: QAB</td> </tr> <tr> <td>TI Chengdu</td> <td>Assembly Site Origin (22L)</td> <td>ASO: CDA</td> </tr> </tbody> </table>					Assembly Site			TI Clark Philippines	Assembly Site Origin (22L)	ASO: QAB	TI Chengdu	Assembly Site Origin (22L)	ASO: CDA			
Assembly Site																
TI Clark Philippines	Assembly Site Origin (22L)	ASO: QAB														
TI Chengdu	Assembly Site Origin (22L)	ASO: CDA														
Sample product shipping label (not actual product label)																

 TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2d: 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) CS0: SHE (21L) CC0:USA (22L) AS0: MLA (23L) ACO: MYS	
Topside Device marking: Assembly site code for QAB= I Assembly site code for CDA = 8			
Product Affected			
TPS22966DPUR	TPS22966DPUT	TPS22968DPUR	TPS22968DPUT

Qualification Report

TPS22966DPUR Qual at TI Chengdu
 Approve Date 18-Mar-2016

Product Attributes

Attributes	Qual Device: TPS22966DPUR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: MSP430F5528IRGC
Assembly Site	CDAT	CDAT	UTAC
Package Family	QFN	QFN	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	RFAB	TSMC F11
Wafer Fab Process	LBC7	LBC7	TSMC.018 EMB FLASH

- QBS: Qual By Similarity
- Qual Device TPS22966DPUR is qualified at LEVEL2-260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: TPS22966DPUR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: MSP430F5528IRGC
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	
FLAM	Flammability (UL 94V-0)	-	-	-	1/5/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	-
MSL	Thermal Path Integrity	Level 1-260C	-	3/36/0	-
MSL	Thermal Path Integrity	Level 2-260C	3/36/0	-	-
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	-	-
TC	Temperature Cycle, - 65/150C	500 Cycles	3/231/0	3/231/0	-

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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