

PCN Number: 20200408000.1 **PCN Date:** May 8, 2020

Title: Qualify TI Chengdu as an additional Assembly site for select devices

Customer Contact: [PCN Manager](#) **Dept:** Quality Services

Proposed 1st Ship Date: Aug 8, 2020 **Estimated Sample Availability:** Provided upon Request

Change Type:		
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/> Design
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/> Data Sheet
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/> Part number change
<input type="checkbox"/>	Mechanical Specification	<input 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

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of TI Chengdu as additional Assembly Site for Select Devices listed in the "Product Affected" Section. Material differences are as follows.

Material Differences:

	TI Clark	TI Chengdu
Mount compound	4207768	4207123
Mold compound	4208625	4222198

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-Info website . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.
--------------------------	---------------------------------------	-------------------------------------	---

Changes to product identification resulting from this PCN:

Assembly Site		
TI Clark	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: 2G:
 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) CSO: SHE (21L) CCO:USA
 (22L) ASO: MLA (23L) ACO: MYS

Product Affected

TPS2556DRBR	TPS2556DRBT
-------------	-------------

Qualification Report

Approve Date 06-Apr-2020

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: <u>TPS2556DRBR</u>	QBS Product Reference: <u>TPS2556DRB</u>	QBS Package Reference: <u>BQ25895RTWR</u>	QBS Package Reference: <u>LP5922</u>	QBS Package Reference: <u>TPS3850G09DRC</u>
AC	Autoclave 121C	96 Hours	-	-	-	-	3/240/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	3/231/0
HTOL	Life Test, 125C	1000/hrs @125C	-	-	-	1/80/0	-
HTSL	High Temp Storage Bake 150C	1000/hrs @150C	-	-	-	3/239/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	3/231/0	-	3/231/0
LU	Latch-up	(per JESD78)	-	-	-	-	1/6/0
MQ	Manufacturability (Assembly)	(Approved by AT site)	3/Pass	1/Pass	3/Pass	3/3/0	1/Pass
TC	Temperature Cycle, -65/150C	(MSL 2 / 260C)	3/231/0	-	3/231/0	3/231/0	3/231/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	-	-	3/231/0	3/239/0	-

- QBS: Qual By Similarity
 - Qual Device TPS2556DRBR is qualified at LEVEL2-260CG
 - 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 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
WW PCN Team	PCN_ww_admin_team@list.ti.com

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.