12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20251111002.1
Qualification of TI Clark as an additional Assembly site and Firmware Change for select devices
Change Notification / Sample Request

Date: November 11, 2025
To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of receipt of this notification within 60 days of the date of this notice. Lack of acknowledgement of this notice within 60 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within 60 days of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

TI values customer engagement and feedback related to TI changes. Customers should contact TI if there are questions or concerns regarding a change notification.

Sincerely,

Change Management Team
SC Business Services

20251111002.1
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records**,** you have recently purchased these devices**.** The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TPS536C5RSLR	NULL
TPS53688RSBR	NULL
TPS536C9TRSLR	NULL
TPS53685RSBR	NULL
TPS536C7B1RSLR	NULL

Technical details of this Product Change follow on the next page(s).

PCN Number:	20251111002.1	**PCN Date:**	November 11, 2025
Title:	Qualification of TI Clark as an additional Assembly site and Firmware Change for select devices		
Customer Contact:	Change Management team	**Dept:**	Quality Services
Proposed 1st Ship Date:	February 09, 2026	**Sample requests accepted until:**	January 10, 2026*

*Sample requests received after January 10, 2026 will not be supported.

Change Type:

☒	Assembly Site	☒	Design	☐	Wafer Bump Material
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Process
☒	Assembly Materials	☐	Part number change	☐	Wafer Fab Site
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Material
☒	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of TI Clark as an additional Assembly site & a firmware for select devices. Material differences between sites as follows:

Group 1 device (RSB)

	Current	Additional
Assembly site	CARZ	CLARK
Mount compound	SID#435143	4207123
Lead finish	NiPdAuAg	NiPdAu

Group 2 device (RSL)

	Current		Additional
Assembly site	CDAT	CARZ	CLARK
Mount compound	4207123	SID#435143	4207123
Lead finish	NiPdAu	NiPdAuAg	NiPdAu

	From	To
Firmware revision*	3.0.11.1	3.0.11.3

*Applicable for TPS536C9TRSLR device
No hardware external changes are required to support this update.

Qual details are provided in the Qual Data Section.

Reason for Change:

Continuity of Supply

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Impact on Environmental Ratings

Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.

RoHS	REACH	Green Status	IEC 62474
☒ No Change	☒ No Change	☒ No Change	☒ No Change

Changes to product identification resulting from this PCN:

Assembly Site Information:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
TI Chengdu	CDA	CHN	Chengdu
CARZ	CSZ	CHN	Jiangsu
TI Clark	**QAB**	**PHL**	**Pampanga**

Sample Product Shipping Label (not actual product label)

Group 1 Product Affected:

SN2005005RSBR	TPS53656RSBR	TPS53685RSBR
SN2105037RSBR	TPS5368561RSBR	TPS53688RSBR

Group 2 Product Affected:

TPS53676RSLR	TPS536C7B0RSLR	TPS536C9T48VRSLR
TPS536C561RSLR	TPS536C7B1RSLR	TPS536C9TRSLR
TPS536C5RSLR	TPS536C9RSLR	

Group 1 Qualification Report

Approve Date 10-October-2024

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: TPS53689RSBR	QBS Product Reference: TPS53688RSBT	QBS Product, Process Reference: TPS536C7RSLT	QBS Package Reference: TPS548B22RVFR
HAST	A2	Biased HAST	110C/85%RH	264 Hours	-	-	1/77/0	3/231/0
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	1/77/0	3/231/0	-
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	1/77/0	1/77/0	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	-	2/154/0	-
TC	A4	Temperature Cycle	-55C/125C	700 Cycles	-	-	-	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	1/77/0	3/231/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	1/77/0	3/231/0	3/231/0
HTOL	B1	Life Test	125C	1000 Hours	-	1/77/0	3/231/0	-
HTOL	B1	Life Test	150C	300 Hours	-	-	-	3/231/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	1/22/0	-	-	-
ESD	E2	ESD CDM	-	1500 Volts	1/3/0	1/3/0	1/3/0	-

ESD	E2	ESD HBM	-	4000 Volts	-	1/3/0	1/3/0	-
LU	E4	Latch-Up	Per JESD78	-	-	1/3/0	1/6/0	3/18/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	Pass	Pass	Pass	Pass
FTY	E6	Final Test Yield	-	-	Pass	Pass	Pass	-

QBS: Qual By Similarity, also known as Generic Data
Qual Device TPS53689RSBR is qualified at MSL2 260C
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/
TI Qualification ID: R-CHG-2202-016

Group 2 Qualification Report

Approve Date 07-August-2025

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: TPS536C9TRSLR	QBS Reference: TPS53689RSBR	QBS Reference: TPS548B22RVFR
HAST	A2	Biased HAST	110C/85%RH	264 Hours	-	-	3/231/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	3/231/0	-
TC	A4	Temperature Cycle	-55C/125C	700 Cycles	-	-	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	3/231/0
HTOL	B1	Life Test	150C	300 Hours	-	-	3/231/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	1/22/0	1/22/0	-
ESD	E2	ESD CDM	-	250 Volts	1/3/0	1/3/0	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/15/0	1/15/0	3/90/0

QBS: Qual By Similarity, also known as Generic Data
Qual Device TPS536C9TRSLR is qualified at MSL2 260C
Qual Device TPS536C9T48VRSLR is qualified at MSL2 260C
Qual Device TPS536C9RSLR is qualified at MSL3 260C
Qual Device TPS536C5RSLR is qualified at MSL3 260C
Qual Device TPS536C561RSLR is qualified at MSL3 260C
Qual Device TPS536C7B0RSLR is qualified at MSL3 260C
Qual Device TPS536C7B1RSLR is qualified at MSL3 260C
Qual Device TPS53676RSLR is qualified at MSL3 260C
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/
TI Qualification ID: R-CHG-2410-035
[1]- Functional - Analog Voltage sensitive

In performing change qualifications, Texas Instruments follows integrated circuit industry standards in performing defect mechanism analysis and failure mechanism-based accelerated environmental testing to ensure wafer fab process, assembly process and product quality and reliability. As encouraged by these standards, TI uses both product-specific and generic (family) data in qualifying its changes. For devices to be categorized as a 'product qualification family' for generic data purposes, they must share similar product, wafer fab process and assembly process elements. The applicability of generic data (also known at TI as Qualification by Similarity (QBS)) is determined by the Reliability Engineering function following these industry standards. Generic data is shown in the qualification report in columns titled "QBS Process" (for wafer fab process), "QBS Package" (for assembly process) and "QBS Product" (for product family).

For questions regarding this notice, e-mails can be sent to Change Management team or your local Field Sales Representative.