12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20240827001.1
Qualification of CDAT as an additional Assembly site for the Select Devices
Change Notification / Sample Request

Date: August 28, 2024
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 **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 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.

Sincerely,

Change Management Team
SC Business Services

20240827001.1
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
TPS7A0210PDQNR	NULL
TPS7A02185PDQNR	NULL
TPS7A0218PDQNR	NULL
TPS7A0220PDQNR	NULL
TPS7A0222PDQNR	NULL
TPS7A0223PDQNR	NULL
TPS7A0225PDQNR	NULL
TPS7A0228DQNR	NULL
TPS7A0228PDQNR	NULL
TPS7A0230PDQNR	NULL
TPS7A0231PDQNR	NULL
TPS7A0233DQNR	NULL
TPS7A0233PDQNR	NULL
TPS7A03185PDQNR	NULL
TPS7A0322DQNR	NULL
TPS7A0323PDQNR	NULL
TPS7A0325DQNR	NULL
TPS7A0325DQNR3	NULL
TPS7A0325PDQNR	NULL
TPS7A0325PDQNR3	NULL
TPS7A0328DQNR	NULL
TPS7A0328PDQNR	NULL
TPS7A0333DQNR	NULL
TPS7A0333PDQNR	NULL
TPS7A0333PDQNR3	NULL

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

PCN Number:	PCN#20240827001.1	**PCN Date:**	August 28, 2024
Title:	Qualification of CDAT as an additional Assembly site for select devices		
Customer Contact:	Change Management Team	**Dept:**	Quality Services
Proposed 1st Ship Date:	November 26, 2024	**Sample requests accepted until:**	September 27, 2024*

***Sample requests received after September 27, 2024 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 Incorporated is announcing the qualification of TI Chengdu as an additional Assembly site for the devices listed below. Construction differences are as follows:

	CARZ	JCETJY	CDAT
Bond Wire composition/diameter	1.0mil Au	1.0mil Au	0.8mil Cu
Mold Compound	441141	120903003009	4222198
Mount Compound	441622	120402001600	4221460 + 4226215

Reason for Change:

Supply continuity

1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties
2) Maximize flexibility within our Assembly/Test production sites.
3) Cu is easier to obtain and stock

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	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
CARZ	CSZ	CHN	Jiangsu
JCETJY	JCE	CHN	Jiangyin
CDAT	**CDA**	**CHN**	**Chengdu**

Sample product shipping label (not actual product label)

Product Affected:

TPS7A0325PDQNR3	TPS7A0222DQNR	TPS7A0233DQNR	TPS7A0325DQNR3
TPS7A0333PDQNR3	TPS7A0222PDQNR	TPS7A0233PDQNR	TPS7A0325PDQNR
TPS7A02185PDQNR	TPS7A0223PDQNR	TPS7A0310PDQNR	TPS7A0328DQNR
TPS7A03185PDQNR	TPS7A0225PDQNR	TPS7A0320PDQNR	TPS7A0328PDQNR
TPS7A0210PDQNR	TPS7A0228DQNR	TPS7A0322DQNR	TPS7A0331PDQNR
TPS7A0215PDQNR	TPS7A0228PDQNR	TPS7A0322PDQNR	TPS7A0333DQNR
TPS7A0218PDQNR	TPS7A0230PDQNR	TPS7A0323PDQNR	TPS7A0333PDQNR
TPS7A0220PDQNR	TPS7A0231PDQNR	TPS7A0325DQNR	

Qualification Report

Approve Date 27-June -2024

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: TPS7A0233PDQNR	Process QBS Reference: TLV62568DBVR	Product QBS Reference: TPS7A0233PDQNR	Package QBS Reference: 2N7001TDPWR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	3/231/0	-	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
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	3/231/0	-	3/231/0
HTSL	A6	High Temperature Storage Life	170C	420 Hours	-	3/231/0	1/77/0	3/231/0
HTOL	B1	Life Test	150C	300 Hours	-	3/231/0	1/77/0	-
ELFR	B2	Early Life Failure Rate	125C	48 Hours	-	3/3000/0	-	-
SD	C3	PB Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB Solder;	-	-	-	-	3/66/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	-	-	-	3/66/0
PD	C4	Physical Dimensions	(per mechanical drawing)	-	-	-	-	3/15/0
ESD	E2	ESD CDM	-	500 Volts	-	1/3/0	1/3/0	-
ESD	E2	ESD HBM	-	2000 Volts	-	1/3/0	1/3/0	-
LU	E4	Latch-Up	Per JESD78	-	-	1/6/0	1/6/0	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	-	1/30/0	-	3/90/0
FTY	E6	Final Test Yield	-	-	1/All/0	-	1/All/0	3/All/0

QBS: Qual By Similarity
Qual Device TPS7A0233PDQNR is qualified at MSL1 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/

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

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.