

PCN Number:	20221107000.1	PCN Date:	November 07, 2022
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Title:	Qualification of TI CDAT as Additional Assembly Site for Select QFN Package Device		
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Customer Contact:	PCN Manager	Dept:	Quality Services
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Proposed 1st Ship Date:	Feb 09, 2023	Sample requests accepted until:	Dec 09, 2022*
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*Sample requests received after (Dec 09, 2022) will not be supported.

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"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing the qualification TI CDAT as Additional Assembly Site for select device listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.

Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City
UTAC	NSE	THA	Bangkok
TI CDAT	CDA	CHN	Chengdu

Material Differences:

	UTAC	TI CDAT
Mount Compound	PZ0035	4207123
Wire Type	1mil Au	0.8mil Cu
Lead finish	Matte Sn	NiPdAu

Package Outline Differences:

UTAC	TI CDAT
Wettable Flank	Non-Wettable Flank

Reason for Change:

Continuity of supply.
 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
<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change

Changes to product identification resulting from this PCN:

Assembly Site		
UTAC	Assembly Site Origin (22L)	ASO: NSE
TI-CDAT	Assembly Site Origin (22L)	ASO: CDA

Sample product shipping label (not actual product label)

Product Affected:

LM25141RGER	LM25141RGET	LM5141RGER	LM5141RGET
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Qualification Report

Approve Date 12-Aug-2021

Qualification Results

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

Typ e	#	Test Spec	M in L ot Q ty	S S / L ot	Test Name / Condition	Durat ion	Qual Device: <u>LMx5141R GER</u>	QBS Process Reference: <u>UCC27282 QDRCQ1</u>	QBS Package Reference: <u>DRV8889Q WRGERQ1</u>	QBS Package Reference: <u>PCM6260Q RTVRQ1</u>	QBS Package Reference: <u>TCA9548ARG EQ1</u>
Test Group A – Accelerated Environment Stress Tests											
HA ST	A 2	JEDE C JESD 22-A110	3	7 7	Biased HAST, 130C/85%RH	96 Hours	QBS	3/231/0	3/231/0	3/231/0	3/231/0

Type	#	Test Spec	Min Lot Qty	SS / Lot	Test Name / Condition	Duration	Qual Device: <u>LMx5141RGER</u>	QBS Process Reference: <u>UCC27282QDRCQ1</u>	QBS Package Reference: <u>DRV8889QWRGERQ1</u>	QBS Package Reference: <u>PCM6260QRTVRRQ1</u>	QBS Package Reference: <u>TCA9548ARGEQ1</u>
AC	A3	JEDEC JESD 22-A102	3	77	Autoclave 121C	96 Hours	QBS	3/231/0	3/231/0	-	3/231/0
TC	A4	JEDEC JESD 22-A104 and Appendix 3	3	77	Temperature Cycle, -65/150C	500 Cycles	1/77/0	3/231/0			3/231/0
HT SL	A6	JEDEC JESD 22-A103	1	45	High Temp Storage Bake 150C	1000 Hours	QBS	3/135/0	3/135/0	3/135/0	1/45/0

QBS; Qualification by similarity

Qual Device LMx5141RGER family is qualified at 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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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