



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20230210000.1

**Qualification of TI CDAT as Additional Assembly Site
for Select QFN Package Device
Change Notification / Sample Request**

Date: March 07, 2023

To: TOKYO ELECTRON DEVICE (DSTR) 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 of the 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 PCN Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team
SC Business Services

20230210000.1
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LM25145RGYR	null
LM25145RGYT	null

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

PCN Number:	20230210000.1	PCN Date:	March 07, 2023
Title:	Qualification of TI CDAT as Additional Assembly Site for Select QFN Package Device		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	June 08, 2023	Sample requests accepted until:	Apr 08, 2023*

*Sample requests received after (Apr 08, 2023) will not be supported.

Change Type:

<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
				<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 Cu	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:												
<table border="1"> <tr> <td colspan="3">Assembly Site</td> </tr> <tr> <td>UTAC</td> <td>Assembly Site Origin (22L)</td> <td>ASO: NSE</td> </tr> <tr> <td>TI-CDAT</td> <td>Assembly Site Origin (22L)</td> <td>ASO: CDA</td> </tr> </table>				Assembly Site			UTAC	Assembly Site Origin (22L)	ASO: NSE	TI-CDAT	Assembly Site Origin (22L)	ASO: CDA
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:												
LM25145RGYR	LM25145RGYT	LM5146RGYR										

Qualification Report

Approve Date 04-Mar-2022

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: <u>LM5146RGYR</u> and <u>LM5145RGYR</u>	QBS Reference: <u>UCC27282QDRCRQ1</u>	QBS Reference: <u>LM74810QDRRRQ1</u>	QBS Reference: <u>TS3A5017QRGYRQ1</u>
HAST	A2	Biased HAST	130C	96 Hours	QBS	3/231/0	3/231/0	3/231/0
UHA	A3	Autodave	121C/15psig	96 Hours	QBS	-	3/231/0	3/231/0

UHAST	A3	Unbiased HAST	130C	96 Hours	QBS	3/231/0	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	QBS	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	QBS	3/135/0	3/135/0	3/135/0

QBS: Qual By Similarity

Qual Device LM5146RGYR and LM5145RGYR are qualified at MSL2 260C

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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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