



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20230328009.1
Qualification of HFTFAT as an additional Assembly and site for select devices
Change Notification / Sample Request

Date: March 29, 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 additional data is 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

20230328009.1
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 twenty-four (29) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TXS0102DCTR	null
SN74LVC1G123DCTR	null
SN74LVC2G08DCTR	null
SN74LVC2G125DCTR	null
SN74LVC3G17DCTR	null
SN74LVC3G34DCTR	null
SN74LVC2G79DCTR	null
SN74LVC1G123DCTT	null
SN74AXC2T45DCTR	null
SN74LVC2G157DCTR	null
SN74LVC2G86DCTR	null
SN74LVC3G14DCTR	null
TXS0102DCTT	null
SN74LVC1G74DCTR	null
SN74LVC2G32DCTR	null
SN74LVC2G74DCTR	null
SN74LVC3G04DCTR	null
SN74LVC3GU04DCTR	null
SN74AUC2G125DCTR	null
SN74LVC2G02DCTR	null
SN74LVC2G126DCTR	null
SN74LVC1G139DCTT	null
SN74LVC2G00DCTR	null
SN74LVC1G139DCTR	null
SN74LVC3G06DCTR	null
SN74LVC2G38DCTR	null
SN74LVC3G07DCTR	null
SN74AUC2G32DCTR	null
SN74LVC2G241DCTR	null

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

PCN Number:	20230328009.1		PCN Date:	March 29, 2023	
Title:	Qualification of HFTFAT as an alternate Assembly site for select devices				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	Jun 27, 2023	Sample Requests accepted until:	Apr 27, 2023*		
*Sample requests received after April 27, 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 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 of HFTF as an additional Assembly and test site for set of devices listed below. Construction differences are documented as follows:					
	Hana	HIT	HFTFAT		
Bond wire composition, diameter	Cu, 0.8 mil	Au, 0.8 mil	Cu, 1.0 or 0.8 mil		
Mold Compound	SID#450596	SID#G600K	SID#R-30		
Mount Compound	SID#400180	SID#RZ241C	SID#A-18		
Lead Finish	NiPdAu	NiPdAu	Matte Sn		
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ					
Upon expiry of this PCN TI will combine lead free solutions in a single <u>standard part number</u> . For example; <u>SN74LVC1404DCTR</u> – can ship with both Matte Sn and NiPdAu.					
Example:					
<ul style="list-style-type: none"> – Customer order for 7500 units of SN74LVC1404DCTR with 2500 units SPQ (Standard Pack Quantity per Reel). – TI can satisfy the above order in one of the following ways. <ul style="list-style-type: none"> I. 3 Reels of NiPdAu finish. II. 3 Reels of Matte Sn finish III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish. IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish. 					
Reason for Change:					
Supply continuity					
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	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
Hana	HNT	THA	Ayutthaya
HIT	HTC	JPN	Kitatsugaru, Aomori
HFTFAT	HFT	CHN	Hefei

Sample product shipping label (not actual product label)



MADE IN: Malaysia
2DC: 20:

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:

SN74AUC2G00DCTR	SN74AUP1G99DCTT	SN74LVC2G02DCTR	SN74LVC2G80DCTR
SN74AUC2G02DCTR	SN74AXC2T45DCTR	SN74LVC2G08DCTR	SN74LVC2G86DCTR
SN74AUC2G08DCTR	SN74LVC1404DCTR	SN74LVC2G125DCTR	SN74LVC3G04DCTR
SN74AUC2G125DCTR	SN74LVC1G123DCTR	SN74LVC2G126DCTR	SN74LVC3G06DCTR
SN74AUC2G126DCTR	SN74LVC1G123DCTT	SN74LVC2G132DCTR	SN74LVC3G07DCTR
SN74AUC2G240DCTR	SN74LVC1G139DCTR	SN74LVC2G157DCTR	SN74LVC3G14DCTR
SN74AUC2G241DCTR	SN74LVC1G139DCTT	SN74LVC2G240DCTR	SN74LVC3G17DCTR
SN74AUC2G32DCTR	SN74LVC1G29DCTR	SN74LVC2G241DCTR	SN74LVC3G34DCTR
SN74AUC2G79DCTR	SN74LVC1G74DCTR	SN74LVC2G32DCTR	SN74LVC3GU04DCTR
SN74AUC2G80DCTR	SN74LVC1G99DCTR	SN74LVC2G38DCTR	TXS0102DCTR
SN74AUC2G86DCTR	SN74LVC1G99DCTT	SN74LVC2G74DCTR	TXS0102DCTT
SN74AUP1G99DCTR	SN74LVC2G00DCTR	SN74LVC2G79DCTR	

Qualification Report
Approve Date 02-AUGUST -2022

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: SN74LVC2T45DCTR	Qual Device: TXS0102DCTR	Qual Device: SN74AXC2T45DCTR
UHASt	A3	Autoclave	121C/15psig	96 Hours	3/231/0	1/77/0	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	1/77/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	3/231/0	1/77/0	-

- QBS: Qual By Similarity
- Qual Device SN74LVC2T45DCTR is qualified at MSL1 260C
- Qual Device TXS0102DCTR is qualified at MSL1 260C
- Qual Device SN74AXC2T45DCTR 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/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

TI Qualification ID: R-CHG-2205-079

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

Location	E-Mail
WW Change Management Team	PCN_ww_admin_team@list.ti.com

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