



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20230531000.1
Qualification of TI CDAT as an additional Assembly site for
select package devices
Change Notification / Sample Request

Date: May 31, 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 and approval 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

20230531000.1
Change Notification / Sample Request
Attachments



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
INA190A2IRSWR	null
TS3A5223RSWR	null
TMUX154ERSWR	null
INA190A3IRSWR	null

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

PCN Number:	20230531000.1		PCN Date:	May 31, 2023	
Title:	Qualification of TI CDAT as an additional Assembly site for select package devices				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	Aug 30, 2023		Sample Requests accepted until:	June 30, 2023*	
*Sample requests received after June 30, 2023 will not be supported.					
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Process
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					
Texas Instruments Incorporated is announcing the qualification of TI CDAT as an additional Assembly site for select devices. Material differences between sites are as follows:					
Group 1 Device:					
	ASEN	TI CDAT			
Wire type	0.8mils Au	0.8mils Cu			
Mount compound	1400336111	4226215			
Mold compound	1801512111	4222198			
Group 2 Device:					
	JCET	TI CDAT			
Wire type	0.8mils Au	0.8mils Cu			
Mount compound	120402001600	4226215			
Mold compound	120903003709	4222198			
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		
<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					
ASEN	Assembly Site Origin (22L)	ASO: ASN			
JCET	Assembly Site Origin (22L)	ASO: JC8			
TI-CDAT	Assembly Site Origin (22L)	ASO: CDA			
Sample product shipping label (not actual product label)					

 TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2Q: MSL 2 / 260C / 1 YEAR SEAL DT MSL 1 / 235C / UNLIM 03/29/04 OPT: ITEM: 39 LBL: 5A (L)T0:1750	 G4	(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	
Group 1 Product Affected:			
INA190A1IRSWR	INA190A2IRSWT	INA190A4IRSWR	INA190A5IRSWT
INA190A1IRSWT	INA190A3IRSWR	INA190A4IRSWT	TMUX154ERSWR
INA190A2IRSWR	INA190A3IRSWT	INA190A5IRSWR	
Group 2 Product Affected:			
TS3A5223RSWR			

Qualification Report

Approve Date 23-March-2023

Product Attributes

Attributes	Qual Device: INA190A1IRSWR	Qual Device: INA190A3IRSWR	Qual Device: INA190A5IRSWR
Assembly Site	CDAT	CDAT	CDAT
Package Family	UQFN	UQFN	UQFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	RFAB	RFAB
Wafer Process	LBC8LV	LBC8LV	LBC8LV

Qual Device INA190A1IRSWR is qualified at MSL1 260C

Qual Device INA190A3IRSWR is qualified at MSL1 260C

Qual Device INA190A5IRSWR is qualified at MSL1 260C

Qualification Results

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

Type	Test Name / Condition	Conditions	Qual Device: INA190A1IRSWR	Qual Device: INA190A3IRSWR	Qual Device: INA190A5IRSWR
PC	Preconditioning	Level 1 - 260C	1/308/0	1/308/0	1/308/0
SAM	Post Preconditioning SAM	Level 1 - 260C	1/15/0	1/15/0	1/15/0
UHAST	Unbiased HAST, 110C	264 Hours	1/77/0	1/77/0	1/77/0
SAM	Post Unbiased HAST SAM	Devices	1/5/0	1/5/0	1/5/0
BHAST	Biased HAST, 110C	264 Hours	1/77/0	1/77/0	1/77/0
SAM	Post Biased HAST SAM	Devices	1/5/0	1/5/0	1/5/0
TC	Temperature Cycle, -55/125C	700 Cycles	1/77/0	1/77/0	1/77/0
SAM	Post Temperature Cycle SAM	Devices	1/5/0	1/5/0	1/5/0
HTSL	High Temp Storage Life, 150C	1000 Hours	1/77/0	1/77/0	1/77/0
HTOL	High Temp Op Life, 125C	1000 Hours	1/77/0	1/77/0	1/77/0
SD	Solderability, Pb-Free	155C Dry Bake	1/22/0	1/22/0	1/22/0
MQ	Manufacturability (Assembly)	(per mfg site requirements)	1/PASS	1/PASS	1/PASS
DSS	Die Shear Strength	Die	1/10/0	1/10/0	1/10/0
BBS	Ball Bond Shear	Ball Bonds	1/76/0	1/76/0	1/76/0
WBP	Wire Bond Pull	Wires	1/76/0	1/76/0	1/76/0
VM	Visual Mechanical Inspection	Devices	1/22/0	1/22/0	1/22/0
XR	Internal X-ray	Devices	1/5/0	1/5/0	1/5/0
PD	Physical Dimensions	(per pkg dwg requirements)	1/5/0	1/5/0	1/5/0
CHAR	Electrical Characterization	Devices	1/30/0	1/30/0	1/30/0
MSL	Moisture Sensitivity Level	Level 1 - 260C	1/15/0	1/15/0	1/15/0
YLD	FTY and Bin Summary	Lots	1/PASS	1/PASS	1/PASS

Preconditioning was performed for Unbiased HAST, 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/1000 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/1000 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

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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