



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20250319003.1

**Qualification of DFAB as an additional Fab site option for select JIBB devices
Change Notification / Sample Request**

Date: June 04, 2025

To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments (TI). The details of this change are on the following pages, and are in alignment with our standard product change notification (PCN) [process](#).

TI requires acknowledgement of receipt of this notification within 60 days of the date of this notice. Lack of acknowledgement of this notice within 60 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within 60 days of this notification, given that samples are not built ahead of the change.

The Proposed First Ship date in this PCN letter is the earliest possible date that customers could receive the changed material. It is our commitment that the changed device will not ship before that date. If samples are requested within the 60 day sample request window, customers will still have 30-days to complete their evaluation regardless of the proposed 1st ship date.

Changes outlined in this notification underscore our commitment to product longevity and supply continuity, as well as our continued efforts to transition to newer, more efficient manufacturing processes and technologies. Specifically, this particular notification is related to TI's multiyear transition plan for our two remaining 150-millimeter production lines (DFAB in Dallas, Texas, and SFAB in Sherman, Texas). SFAB closure activities are expected to begin by the end of 2025. DFAB will remain open with a smaller set of 200mm technologies and GaN.

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. As always, we thank you for your continued business.

TI values customer engagement and feedback related to TI changes. Customers should contact TI if there are questions or concerns regarding a change notification.

Change Management Team
SC Business Services

20250319003.1
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
INA168NA/3K	INA168NA/3K
DRV135UA/2K5	DRV135UA/2K5
INA121UA/2K5	INA121UA/2K5
INA121UA	INA121UA
ISO124P	NULL
INA168NA/250	INA168NA/250
ISO124U	NULL
OPA544F/500	OPA544F/500
REF102CU	NULL
REF02AU/2K5	NULL
INA2134UA/2K5	INA2134UA/2K5
OPA548F/500	OPA548F/500
INA121U	INA121U
OPA551FA/500G3	OPA551FA/500
INA103KU	INA103KU
INA111AP	NULL
DRV135UA	DRV135UA
INA121PA	INA121PA
OPA548T	OPA548T
ISO122UE4	NULL
INA139NA/3K	INA139NA/3K
INA166UA/2K5	595-INA166UA/2K5
ISO122JUE4	NULL
INA103KP	INA103KP
INA157U	NULL
DRV134UA	DRV134UA
INA2141UA	NULL
INA128HD	NULL
OPA544T	OPA544T
OPA548F/500	595-OPA548F/500
INA2137UA	INA2137UA
ISO122U/1K	NULL
INA111AU	NULL
INA121U/2K5	INA121U/2K5
INA121P	INA121P
INA157U/2K5	NULL
INA138NA/3K	INA138NA/3K
ISO124UE4	NULL
INA111BP	NULL
INA134UA/2K5	595-INA134UA/2K5
INA2134UA	INA2134UA
INA2137UA/2K5	INA2137UA/2K5
ISO122JP	NULL
DRV134PA	DRV134PA
OPA551FA/500	OPA551FA/500
INA134UA	NULL
REF102BU	NULL
INA137UA	NULL
REF02BU/2K5	NULL
OPA548T-1	OPA548T-1
OPA551PA	OPA551PA

ISO124U/1K	NULL
ISO122JPE4	NULL
OPA551FAKTWTG3	OPA551FAKTWT
INA111BU	NULL
REF02BU	NULL
DRV134UA/1K	DRV134UA/1K
INA157UA	NULL
INA138NA/250	INA138NA/250
ISO122U	NULL
REF102AU/2K5	REF102AU/2K5
INA154U	INA154U
OPA551FAKTWT	OPA551FAKTWT
INA169NA/250	INA169NA/250
OPA544FKTTT	OPA544FKTTT
REF102AU	NULL
INA154UA	INA154UA
OPA548FKWT	OPA548FKWT
ISO122PE4	NULL
ISO122JU	NULL
INA154U/2K5	INA154U/2K5
INA128P	NULL
INA139NA/250	INA139NA/250
OPA551UA/2K5	OPA551UA/2K5
INA128PA	NULL
INA137UA/2K5	INA137UA/2K5
REF02AU	NULL
ISO122P	NULL
OPA551UA	OPA551UA
INA169NA/3K	INA169NA/3K

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

PCN Number:	20250319003.1	PCN Date:	June 04, 2025
Title:	Qualification of DFAB as an additional Fab site option for select JIBB devices		
Customer Contact:	Change Management Team	Dept:	Quality Services
Proposed 1st Ship Date:	September 02, 2025	Sample requests accepted until:	August 03, 2025*

***Sample requests received after August 03, 2025 will not be supported.**

Change Type:

<input 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 type="checkbox"/> Assembly Materials	<input type="checkbox"/> Part number change	<input checked="" type="checkbox"/> Wafer Fab Site
<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Site	<input checked="" type="checkbox"/> Wafer Fab Material
<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Process	<input type="checkbox"/> Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments is pleased to announce the addition of DFAB as an additional Wafer Fab option for the devices listed below.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
SFAB	JIBB	150 mm	DFAB	JIBB	200 mm

Qual details are provided in the Qual Data Section.

Reason for Change:

These changes are part of our multiyear plan to transition products from our 150-millimeter factories to newer, more efficient manufacturing processes and technologies, underscoring our commitment to product longevity and supply continuity.

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
SH-BIP-1	SHE	USA	Sherman
DL-LIN	DLN	USA	Dallas

Sample product shipping label (not actual product label):



Product Affected:

DRV134PA	INA134UA	INA2137UA/2K5	OPA544F/500
DRV134PA.A	INA134UA.A	INA2137UA/2K5.A	OPA544F/500.A
DRV134UA	INA134UA/2K5	INA2141U	OPA544FKTTT
DRV134UA.A	INA134UA/2K5.A	INA2141U.A	OPA544FKTTT.A
DRV134UA/1K	INA137UA	INA2141UA	OPA544T
DRV134UA/1K.A	INA137UA.A	INA2141UA.A	OPA544T.A
DRV135UA	INA137UA/2K5	INA2141UA/1K	OPA548F/500
DRV135UA.A	INA137UA/2K5.A	INA2141UA/1K.A	OPA548F/500.A
DRV135UA/2K5	INA138NA/250	ISO122JP	OPA548FKTWT
DRV135UA/2K5.A	INA138NA/250.A	ISO122JP.A	OPA548FKTWT.A
INA103KP	INA138NA/3K	ISO122JP.B	OPA548T
INA103KP.A	INA138NA/3K.A	ISO122JPE4	OPA548T.A
INA103KU	INA139NA/250	ISO122JU	OPA548T-1
INA103KU.A	INA139NA/250.A	ISO122JU.A	OPA548T-1.A
INA103KU/1K	INA139NA/3K	ISO122JU.B	OPA551FA/500
INA103KU/1K.A	INA139NA/3K.A	ISO122JU/1K	OPA551FA/500.A
INA111AP	INA154U	ISO122JU/1K.A	OPA551FA/500G3
INA111AP.A	INA154U.A	ISO122JU/1K.B	OPA551FAKTWT
INA111AU	INA154U/2K5	ISO122JUE4	OPA551FAKTWT.A
INA111AU.A	INA154U/2K5.A	ISO122P	OPA551FAKTWTG3
INA111AU/1K	INA154UA	ISO122P.A	OPA551PA
INA111AU/1K.A	INA154UA.A	ISO122P.B	OPA551PA.A
INA111BP	INA157U	ISO122PE4	OPA551UA
INA111BP.A	INA157U.A	ISO122U	OPA551UA.A
INA111BU	INA157U/2K5	ISO122U.A	OPA551UA/2K5
INA111BU.A	INA157U/2K5.A	ISO122U.B	OPA551UA/2K5.A
INA121P	INA157UA	ISO122U/1K	REF02AU
INA121P.A	INA157UA.A	ISO122U/1K.A	REF02AU.A
INA121PA	INA157UA/2K5	ISO122U/1K.B	REF02AU/2K5
INA121PA.A	INA157UA/2K5.A	ISO122UE4	REF02AU/2K5.A
INA121U	INA168NA/250	ISO124P	REF02BU
INA121U.A	INA168NA/250.A	ISO124P.A	REF02BU.A
INA121U/2K5	INA168NA/3K	ISO124P.B	REF02BU/2K5
INA121U/2K5.A	INA168NA/3K.A	ISO124U	REF02BU/2K5.A
INA121UA	INA169NA/250	ISO124U.A	REF102AU
INA121UA.A	INA169NA/250.A	ISO124U.B	REF102AU.A
INA121UA/2K5	INA169NA/3K	ISO124U/1K	REF102AU/2K5
INA121UA/2K5.A	INA169NA/3K.A	ISO124U/1K.A	REF102AU/2K5.A
INA128HD	INA2134UA	ISO124U/1K.B	REF102BU
INA128HD.A	INA2134UA.A	ISO124U/1KE4	REF102BU.A
INA128P	INA2134UA/2K5	ISO124UE4	REF102CU
INA128P.A	INA2134UA/2K5.A	OPA2604AU	REF102CU.A
INA128PA	INA2134UA/2K5G4	OPA2604AU.A	REF102CU/2K5
INA128PA.A	INA2137UA	OPA2604AU/2K5	REF102CU/2K5.A
INA128PG4	INA2137UA.A	OPA2604AU/2K5.A	

For alternate parts with similar or improved performance, please visit the product page on TI.com

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: <u>INA168QDBVRQ1</u>
HAST	A2	Biased HAST	130C/85%RH	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
HTSL	A6	High Temperature Storage Life	175C	500 Hours	1/45/0
HTOL	B1	Life Test	125C	1000 Hours	3/231/0
ELFR	B2	Early Life Failure Rate	125C	48 Hours	3/2400/0
SD	C3	PB Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	1/15/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	1/15/0
PD	C4	Physical Dimensions	Cpk>1.67	-	3/30/0
ESD	E2	ESD CDM	-	1000 Volts	1/3/0
ESD	E2	ESD HBM	-	2000 Volts	1/3/0
LU	E4	Latch-Up	Per JESD78	-	1/6/0
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	3/90/0

- QBS: Qual By Similarity, also known as Generic Data
- Qual Device INA168QDBVRQ1 is qualified at MSL1 260C
- Qual Device INA168QDBVRQ1 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/>

TI Qualification ID: R-CHG-2206-002

In performing change qualifications, Texas Instruments follows integrated circuit industry standards in performing defect mechanism analysis and failure mechanism-based accelerated environmental testing to ensure wafer fab process, assembly process and product quality and reliability. As encouraged by these standards, TI uses both product-specific and generic (family) data in qualifying its changes. For devices to be categorized as a 'product qualification family' for generic data purposes, they must share similar product, wafer fab process and assembly process elements. The applicability of generic data (also known at TI as Qualification by Similarity (QBS)) is determined by the Reliability Engineering function following these industry standards. Generic data is shown in the qualification report in columns titled "QBS Process" (for wafer fab process), "QBS Package" (for assembly process) and "QBS Product" (for product family).

For questions regarding this notice, e-mails can be sent to the 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.