



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN# 20250204002.1**

**Qualification of RFAB using qualified Process Technology, Die Revision, Datasheet  
and additional BOM options for select devices  
Change Notification / Sample Request**

**Date:** February 05, 2025

**To:** MOUSER PCN

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 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.

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 change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

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

Sincerely,

Change Management Team  
SC Business Services

**20250204002.1**  
**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.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
INA230AIRGTR	INA230AIRGTR

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

<b>PCN Number:</b>	20250204002.1	<b>PCN Date:</b>	February 05, 2025
<b>Title:</b>	Qualification of RFAB using qualified Process Technology, Die Revision, Datasheet and additional BOM options for select devices		
<b>Customer Contact:</b>	Change Management Team	<b>Dept:</b>	Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	May 06, 2025	<b>Sample requests accepted until:</b>	April 06, 2025*

**\*Sample requests received after April 06, 2025 will not be supported.**

**Change Type:**

<input type="checkbox"/>	Assembly Site	<input checked="" type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Process
<input checked="" 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 checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input checked="" type="checkbox"/>	Wafer Fab Process

**PCN Details**

**Description of Change:**

Texas Instruments is pleased to announce the addition of RFAB using the qualified HPA9 process technology, die revision, data sheet and BOM option for the device listed below.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
DP1DM5	50HPA07	200 mm	RFAB	HPA9	300 mm

The die was also changed as a result of the process change.

Construction differences are as follows:

	Current	Proposed
Wire diam/type	0.96mil Cu	0.80mil Cu

The datasheets will be changing as a result of the above mentioned changes. The datasheet change details can be reviewed in the datasheet revision history. The links to the revised datasheets are available in the table below.



INA230  
SBOS601B – FEBRUARY 2012 – REVISED JANUARY 2025

Changes from Revision A (December 2021) to Revision B (January 2025)	Page
• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Updated thermal performance values for RGT package.....	4
• Modified input bias current typical value for RGT package.....	5
• Updated the description of the input bias current curves in the <i>Typical Characteristics</i> .....	8

Product Folder	Current Datasheet Number	New Datasheet Number	Link to full datasheet
INA230	SBOS601A	<b>SBOS601B</b>	<a href="http://www.ti.com/product/">http://www.ti.com/product/</a>

Qual details are provided in the Qual Data Section.

**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:

##### Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
DP1DM5	DM5	USA	Dallas
<b>RFAB</b>	<b>RFB</b>	<b>USA</b>	<b>Richardson</b>

##### Die Rev:

##### Current

##### New

Die Rev [2P]	Die Rev [2P]
A	A

Sample product shipping label (not actual product label)



#### Product Affected:

INA230AIRGTR

## Qualification Report

Approve Date 10-January-2025

### Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: INA230AIRGTR	Qual Device: INA230AIRGTT	QBS Reference: QP16710K05	QBS Reference: TP55492BHLR2P	QBS Reference: SMT200PHV460SSR2B	QBS Reference: P2400A8HHR	QBS Reference: LUN10124M5GTE	QBS Reference: INA230A0GSS01
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	32310	-	-	32310	-	1/770
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	-	32310	32310	-	-	-
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	-	-	32310	-	-	32310	-	1/770
TC	A4	Temperature Cycle	-65/150C	500 Cycles	-	-	32310	-	-	32310	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	1/770	-	32310	32310	32310	32310	1/770	32310
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	-	-	-	32310	-	32310
HTSL	A6	High Temperature Storage Life	170C	420 Hours	-	-	32310	-	-	-	-	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	-	-	32310	-	-
HTOL	B1	Life Test	150C	300 Hours	-	-	32310	-	-	-	-	1/770
ELFR	B2	Early Life Failure Rate	125C	48 Hours	-	-	3239702	-	-	324000	-	-
SD	C3	PB-Free Solderability	Precondition w/155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder	-	1/220	-	-	-	-	1/220	-	-
PD	C4	Physical Dimensions	Cpk>1.67	-	-	-	-	-	-	-	-	1/100
ESD	E2	ESD CDM	-	250 Volts	1/50	-	3/60	-	-	1/30	-	-
ESD	E2	ESD CDM	-	500 Volts	-	-	-	-	-	-	-	1/30
ESD	E2	ESD HBM	-	1000 Volts	1/50	-	3/60	-	-	1/30	-	-
ESD	E2	ESD HBM	-	2000 Volts	-	-	-	-	-	-	-	1/30
LU	E4	Latch-Up	Per JE5078	-	1/50	-	3/180	-	-	1/30	-	1/30
CHAR	E5	Electrical Characterization	Min, Typ, Max Temp	-	1/500	-	3/900	-	-	1/500	-	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/500	-	3/900	-	-	1/500	-	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	-	-	-	-	-	-	3/900

QBS: Qual By Similarity, also known as Generic Data

Qual Device INA230AIRGTR is qualified at MSL1 260C

Qual Device INA230AIRGTT 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/>

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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