



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20240209000.0
Datasheet for INA114
Information Only**

Date: February 09, 2024

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team
SC Business Services

20240209000.0
Information Only Datasheet
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
INA114AP	NULL
INA114AU	NULL
INA114AU/1K	NULL
INA114BP	NULL
INA114BU	NULL
INA114BU/1K	NULL

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

PCN Number:	20240209000.0	PCN Date:	February 09, 2024
Title:	Datasheet for INA114		
Customer Contact:	Change Management team	Dept:	Quality Services
Change Type:	Electrical Specification		

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



INA114
SBOS014A – SEPTEMBER 2000 – REVISED JANUARY 2024

Changes from Revision * (March 1998) to Revision A (January 2024)	Page
• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Added the <i>ESD Ratings, Recommended Operating Conditions, Thermal Information, Application and Implementation, Typical Applications, Device and Documentation Support, and Mechanical, Packaging, and Orderable Information</i> sections.....	1
• Changed SOL package name to SOIC throughout data sheet.....	1
• Added "for high gains" to low offset voltage and low drift bullets in <i>Features</i>	1
• Changed low drift bullet value from 0.25µV/°C to 0.3µV/°C in <i>Features</i>	1
• Updated bullets in <i>Applications</i>	1
• Added symbols in <i>Absolute Maximum Ratings</i>	3
• Changed supply voltage to show dual supply and single supply in <i>Absolute Maximum Ratings</i>	3
• Changed "Input Voltage Range" to "Signal input pins" in <i>Absolute Maximum Ratings</i>	3
• Added signal output voltage to <i>Absolute Maximum Ratings</i>	3
• Changed output short-circuit from "ground" to " $V_S / 2$ " in <i>Absolute Maximum Ratings</i>	3
• Added DW (SOIC) package ambient thermal resistance value.....	3
• Changed ambient thermal resistance value for P (PDIP) package from 80°C/W to 110.2°C/W.....	3
• Added symbols in <i>Electrical Characteristics</i>	4
• Changed offset voltage maximum value from $\pm 50 + 100/G$ to $\pm 50 + 150/G$	4
• Changed "Offset Voltage vs Temperature" to "Offset voltage drift".....	4
• Changed offset voltage drift test condition from $T_A = T_{MIN}$ to T_{MAX} to $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$	4

• Changed offset voltage drift maximum value from $\pm 0.25 + 5/G$ to $\pm 0.3 + 5/G$	4
• Deleted safe input voltage from <i>Electrical Characteristics</i>	4
• Changed "Input Common-Mode Range" to "Operating input voltage".....	4
• Changed "Offset Voltage vs Power Supply" to "Power-supply rejection ratio".....	4
• Changed "Bias current vs Temperature" to "Input bias current drift".....	4
• Added " $T_A = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ " test condition to input bias current drift.....	4
• Changed "Offset Current vs Temperature" to "Input offset current drift".....	4
• Added " $T_A = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ " test condition to input offset current drift.....	4
• Added " $V_O = \pm 10\text{V}$ " test condition to gain error.....	4
• Changed "Gain vs Temperature" to "Gain drift"	4
• Added " $V_O = -10\text{V}$ to $+10\text{V}$ " test condition to gain nonlinearity.....	4
• Changed output voltage values from ± 13.5 (min) and ± 13.7 (typ) to $(V-) + 1.5$ (min) and $(V+) - 1.5$ (max).....	4
• Changed output voltage test condition from T_{MIN} to T_{MAX} to $T_A = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$	4
• Added output voltage test conditions for $V_S = \pm 11.4\text{V}$ and $V_S = \pm 2.25\text{V}$	4
• Added $V_{\text{STEP}} = 10\text{V}$ test condition to settling time.....	4
• Deleted power supply voltage range typical value of $\pm 15\text{V}$	4
• Moved voltage range, operating temperature range, and thermal resistance from <i>Electrical Characteristics</i> to <i>Recommended Operating Conditions and Thermal Information</i>	4
• Updated Figure 5-6, <i>Input-referred Noise Voltage vs Frequency</i>	6
• Updated Figure 5-10, <i>Input Bias Current vs Differential Input Voltage</i>	6
• Updated Figure 5-11, <i>Input Bias Current vs Common-Mode Input Voltage</i>	6
• Updated Figure 5-19 to Figure 22, Small- and Large-Signal Response plots.....	6

The datasheet number will be changing.

Device Family	Change From:	Change To:
INA114	SBOS014	SBOS014A

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/INA114>

Reason for Change:

To accurately reflect device characteristics.

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

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device

Changes to product identification resulting from this PCN:

None.

Product Affected:

INA114AP	INA114AU	INA114AU/1K	INA114AUE4
INA114BP	INA114BU	INA114BU/1K	

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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