



Product/Process Change Notice - PCN 22_0252 Rev. A

Analog Devices, Inc. One Analog Way, Wilmington, MA 01887, USA

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

PCN Title:	Epoxy Change from Henkel 8290 to 8290A for 16-Lead SOIC Package
Publication Date:	14-Dec-2023
Effectivity Date:	14-Dec-2023 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Adding parts.

Description Of Change:

Epoxy formulation change to Henkel 8290A from Henkel 8290.

Reason For Change:

8290A is a more robust epoxy with minimal outgassing due to its less volatile fluorocarbon content.

Impact of the change (positive or negative) on fit, form, function & reliability:

This change will not impact fit, form, function while improving the reliability of the products.

Product Identification *(this section will describe how to identify the changed material)*

Implementation effectively on parts with date code 2242 onwards.

Summary of Supporting Information:

Qualification will be performed per Industry Standard Test Methods. See attached Qualification Plan.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

[ADI_PCN_22_0252_Rev_A_Automotive_Qual_Result_Summary_ABA3.pdf...](#)

Note: If applicable, the device material declaration will be updated due to material change.

ADI Contact Information:

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

Americas:	Europe:	Japan:	Rest of Asia:
PCN_Americas@analog.com	PCN_Europe@analog.com	PCN_Japan@analog.com	PCN_ROA@analog.com

Appendix A - Affected ADI Models:

Existing Parts - Product Family / Model Number (350)

LT1114 / LT1114IS	LT1114 / LT1114IS#PBF	LT1114 / LT1114IS#TR	LT1114 / LT1114IS#TRPBF	LT1114 / LT1114S
LT1114 / LT1114S#PBF	LT1114 / LT1114S#TR	LT1114 / LT1114S#TRPBF	LT1183 / LT1183CS#PBF	LT1183 / LT1183CS#TRPBF
LT1205 / LT1205CS#PBF	LT1205 / LT1205CS#TRPBF	LT1207 / LT1207CS	LT1207 / LT1207CS#PBF	LT1207 / LT1207CS#TR
LT1207 / LT1207CS#TRM	LT1207 / LT1207CS#TRPBF	LT1209 / LT1209CS	LT1209 / LT1209CS#PBF	LT1209 / LT1209CS#TR
LT1209 / LT1209CS#TRM	LT1209 / LT1209CS#TRPBF	LT1210 / LT1210CS#PBF	LT1210 / LT1210CS#TRPBF	LT1212 / LT1212CS#PBF
LT1212 / LT1212CS#TRMPBF	LT1212 / LT1212CS#TRPBF	LT1212 / LT1212IS	LT1212 / LT1212IS#PBF	LT1212 / LT1212IS#TR
LT1212 / LT1212IS#TRPBF	LT1214 / LT1214CS	LT1214 / LT1214CS#PBF	LT1214 / LT1214CS#TR	LT1214 / LT1214CS#TRMPBF
LT1214 / LT1214CS#TRPBF	LT1216 / LT1216CS	LT1216 / LT1216CS#PBF	LT1216 / LT1216CS#TR	LT1216 / LT1216CS#TRPBF
LT1248 / LT1248CS#PBF	LT1248 / LT1248CS#TRPBF	LT1248 / LT1248IS#PBF	LT1248 / LT1248IS#TRMPBF	LT1248 / LT1248IS#TRPBF
LT1260 / LT1260CS#PBF	LT1260 / LT1260CS#TRPBF	LT1260 / LT1260IS	LT1260 / LT1260IS#PBF	LT1260 / LT1260IS#TR
LT1260 / LT1260IS#TRPBF	LT1356 / LT1356CS	LT1356 / LT1356CS#PBF	LT1356 / LT1356CS#TR	LT1356 / LT1356CS#TRMPBF
LT1356 / LT1356CS#TRPBF	LT1356 / LT1356H#PBF	LT1356 / LT1356H#TRPBF	LT1356 / LT1356H#PBF	LT1356 / LT1356H#TRPBF
LT1359 / LT1359CS#PBF	LT1359 / LT1359CS#TRPBF	LT1359 / LT1359IS#PBF	LT1359 / LT1359IS#TRPBF	LT1362 / LT1362CS#PBF
LT1362 / LT1362CS#TRPBF	LT1365 / LT1365CS#PBF	LT1365 / LT1365CS#TRMPBF	LT1365 / LT1365CS#TRPBF	LT1376 / LT1376CS#PBF
LT1376 / LT1376CS#TRPBF	LT1376 / LT1376H#PBF	LT1376 / LT1376H#TRMPBF	LT1376 / LT1376H#TRPBF	LT1376 / LT1376H#PBF
LT1376 / LT1376H#TRPBF	LT1376 / LT1376IS	LT1381 / LT1381CS	LT1381 / LT1381CS#PBF	LT1381 / LT1381CS#TRPBF
LT1381 / LT1381IS	LT1381 / LT1381IS#PBF	LT1381 / LT1381IS#TRPBF	LT1398 / LT1398CS#PBF	LT1398 / LT1398CS#TRPBF
LT1399 / LT1399CS#PBF	LT1399 / LT1399CS#TRPBF	LT1399 / LT1399H#PBF	LT1399 / LT1399H#TRPBF	LT1399 / LT1399IS#PBF
LT1399 / LT1399IS#TRPBF	LT1425 / LT1425CS	LT1425 / LT1425CS#PBF	LT1425 / LT1425CS#TR	LT1425 / LT1425CS#TRMPBF
LT1425 / LT1425CS#TRPBF	LT1425 / LT1425IS	LT1425 / LT1425IS#PBF	LT1425 / LT1425IS#TR	LT1425 / LT1425IS#TRPBF
LT1467 / LT1467LCS#PBF	LT1467 / LT1467LCS#TRPBF	LT1493 / LT1493CS#PBF	LT1493 / LT1493CS#TRPBF	LT1497 / LT1497CS#PBF
LT1497 / LT1497CS#TRPBF	LT1510 / LT1510CS#PBF	LT1510 / LT1510CS#TRMPBF	LT1510 / LT1510CS#TRPBF	LT1510 / LT1510IS#PBF
LT1510 / LT1510IS#TRPBF	LT1533 / LT1533CS#PBF	LT1533 / LT1533CS#TRMPBF	LT1533 / LT1533CS#TRPBF	LT1533 / LT1533IS
LT1533 / LT1533IS#PBF	LT1533 / LT1533IS#TRMPBF	LT1533 / LT1533IS#TRPBF	LT1534 / LT1534CS#PBF	LT1534 / LT1534CS#TRPBF
LT1534 / LT1534CS-1#PBF	LT1534 / LT1534CS-1#TRPBF	LT1534 / LT1534IS#PBF	LT1534 / LT1534IS#TRMPBF	LT1534 / LT1534IS#TRPBF
LT1534 / LT1534IS-1	LT1534 / LT1534IS-1#PBF	LT1534 / LT1534IS-1#TRMPBF	LT1534 / LT1534IS-1#TRPBF	LT1577 / LT1577CS-3.3/2.8#PBF
LT1577 / LT1577CS-3.3/2.8#TRPBF	LT1577 / LT1577CS-3.3/ADJ#PBF	LT1577 / LT1577CS-3.3/ADJ#TRPBF	LT1577 / LT1577CS-ADJ/ADJ#PBF	LT1577 / LT1577CS-ADJ/ADJ#TRPBF
LT1579 / LT1579CS#PBF	LT1579 / LT1579CS#TRPBF	LT1579 / LT1579CS-3#PBF	LT1579 / LT1579CS-3#TRPBF	LT1579 / LT1579CS-3.3#PBF
LT1579 / LT1579CS-3.3#TRPBF	LT1579 / LT1579CS-5#PBF	LT1579 / LT1579CS-5#TRPBF	LT1721 / LT1721CS#PBF	LT1721 / LT1721CS#TRPBF
LT1721 / LT1721IS#PBF	LT1721 / LT1721IS#TRPBF	LT1725 / LT1725CS#PBF	LT1725 / LT1725CS#TRMPBF	LT1725 / LT1725CS#TRPBF
LT1725 / LT1725IS	LT1725 / LT1725IS#PBF	LT1725 / LT1725IS#TRMPBF	LT1725 / LT1725IS#TRPBF	LT1737 / LT1737CS#PBF
LT1737 / LT1737CS#TRPBF	LT1737 / LT1737IS	LT1737 / LT1737IS#PBF	LT1737 / LT1737IS#TRPBF	LTC1067 / LTC1067-50CS#PBF
LTC1067 / LTC1067-50CS#TRPBF	LTC1067 / LTC1067-50IS#PBF	LTC1067 / LTC1067-50IS#TRPBF	LTC1067 / LTC1067CS#PBF	LTC1067 / LTC1067CS#TRPBF
LTC1067 / LTC1067IS#PBF	LTC1067 / LTC1067IS#TRPBF	LTC1143 / LTC1143CS#PBF	LTC1143 / LTC1143CS#TRPBF	LTC1143 / LTC1143LCS#PBF
LTC1143 / LTC1143LCS#TRPBF	LTC1143 / LTC1143LCS-ADJ#PBF	LTC1143 / LTC1143LCS-ADJ#TRPBF	LTC1266 / LTC1266ACS#PBF	LTC1266 / LTC1266ACS#TRPBF
LTC1266 / LTC1266AIS	LTC1266 / LTC1266AIS#PBF	LTC1266 / LTC1266AIS#TRPBF	LTC1266 / LTC1266CS	LTC1266 / LTC1266CS#PBF
LTC1266 / LTC1266CS#TRPBF	LTC1266 / LTC1266CS-3.3#PBF	LTC1266 / LTC1266CS-3.3#TRPBF	LTC1266 / LTC1266CS-5#PBF	LTC1266 / LTC1266CS-5#TRPBF
LTC1266 / LTC1266IS	LTC1266 / LTC1266IS#PBF	LTC1266 / LTC1266IS#TRPBF	LTC1266 / LTC1266IS-3.3#PBF	LTC1266 / LTC1266IS-3.3#TRPBF
LTC1266 / LTC1266IS-5#PBF	LTC1266 / LTC1266IS-5#TRPBF	LTC1380 / LTC1380CS#PBF	LTC1380 / LTC1380CS#TRPBF	LTC1380 / LTC1380IS
LTC1380 / LTC1380IS#PBF	LTC1380 / LTC1380IS#TRPBF	LTC1383 / LTC1383CS#PBF	LTC1383 / LTC1383CS#TRPBF	LTC1383 / LTC1383IS#PBF
LTC1383 / LTC1383IS#TRPBF	LTC1386 / LTC1386CS#PBF	LTC1386 / LTC1386CS#TRMPBF	LTC1386 / LTC1386CS#TRPBF	LTC1386 / LTC1386IS#PBF
LTC1386 / LTC1386IS#TRPBF	LTC1390 / LTC1390CS#PBF	LTC1390 / LTC1390CS#TRMPBF	LTC1390 / LTC1390CS#TRPBF	LTC1391 / LTC1391CS#PBF
LTC1391 / LTC1391CS#TRPBF	LTC1391 / LTC1391IS#PBF	LTC1391 / LTC1391IS#TRA1PBF	LTC1391 / LTC1391IS#TRPBF	LTC1393 / LTC1393CS#PBF
LTC1393 / LTC1393CS#TRPBF	LTC1393 / LTC1393IS#PBF	LTC1393 / LTC1393IS#TRPBF	LTC1430 / LTC1430IS#PBF	LTC1430 / LTC1430IS#TRPBF
LTC1430A / LTC1430ACS#PBF	LTC1430A / LTC1430ACS#TRPBF	LTC1443 / LTC1443CS#PBF	LTC1443 / LTC1443CS#TRPBF	LTC1443 / LTC1443IS
LTC1443 / LTC1443IS#PBF	LTC1443 / LTC1443IS#TRMPBF	LTC1443 / LTC1443IS#TRPBF	LTC1444 / LTC1444CS#PBF	LTC1444 / LTC1444CS#TRPBF
LTC1444 / LTC1444IS	LTC1444 / LTC1444IS#PBF	LTC1444 / LTC1444IS#TRPBF	LTC1445 / LTC1445CS#PBF	LTC1445 / LTC1445CS#TRPBF
LTC1445 / LTC1445IS	LTC1445 / LTC1445IS#PBF	LTC1445 / LTC1445IS#TRPBF	LTC1454 / LTC1454CS#PBF	LTC1454 / LTC1454CS#TRPBF
LTC1454 / LTC1454IS#PBF	LTC1454 / LTC1454IS#TRPBF	LTC1454 / LTC1454LCS#PBF	LTC1454 / LTC1454LCS#TRPBF	LTC1454 / LTC1454LIS#PBF
LTC1454 / LTC1454LIS#TRPBF	LTC1471 / LTC1471CS#PBF	LTC1471 / LTC1471CS#TRPBF	LTC1472 / LTC1472CS	LTC1472 / LTC1472CS#90120PBF
LTC1472 / LTC1472CS#PBF	LTC1472 / LTC1472CS#TRPBF	LTC1478 / LTC1478CS#PBF	LTC1478 / LTC1478CS#TRPBF	LTC1518 / LTC1518CS
LTC1518 / LTC1518CS#PBF	LTC1518 / LTC1518CS#TRPBF	LTC1518 / LTC1518IS	LTC1518 / LTC1518IS#PBF	LTC1518 / LTC1518IS#TRPBF
LTC1519 / LTC1519CS#PBF	LTC1519 / LTC1519CS#TRPBF	LTC1519 / LTC1519IS#PBF	LTC1519 / LTC1519IS#TR	LTC1519 / LTC1519IS#TRPBF
LTC1520 / LTC1520CS#PBF	LTC1520 / LTC1520CS#TRPBF	LTC1559 / LTC1559CS-3.3#PBF	LTC1559 / LTC1559CS-3.3#TRPBF	LTC1559 / LTC1559CS-5#PBF
LTC1559 / LTC1559CS-5#TRPBF	LTC1590 / LTC1590CS#PBF	LTC1590 / LTC1590CS#TRMPBF	LTC1590 / LTC1590CS#TRPBF	LTC1590 / LTC1590IS
LTC1590 / LTC1590IS#PBF	LTC1590 / LTC1590IS#TRPBF	LTC1594 / LTC1594CS	LTC1594 / LTC1594CS#PBF	LTC1594 / LTC1594CS#TRMPBF
LTC1594 / LTC1594CS#TRPBF	LTC1594 / LTC1594IS#PBF	LTC1594 / LTC1594IS#TR	LTC1594 / LTC1594IS#TRPBF	LTC1594L / LTC1594LCS#PBF
LTC1594L / LTC1594LCS#TRPBF	LTC1594L / LTC1594LIS#PBF	LTC1594L / LTC1594LIS#TRMPBF	LTC1594L / LTC1594LIS#TRPBF	LTC1625 / LTC1625CS#PBF
LTC1625 / LTC1625CS#TRMPBF	LTC1625 / LTC1625CS#TRPBF	LTC1625 / LTC1625IS	LTC1625 / LTC1625IS#PBF	LTC1625 / LTC1625IS#TR
LTC1625 / LTC1625IS#TRMPBF	LTC1625 / LTC1625IS#TRPBF	LTC1649 / LTC1649CS#PBF	LTC1649 / LTC1649CS#TRPBF	LTC1649 / LTC1649IS#PBF
LTC1649 / LTC1649IS#TRPBF	LTC1650 / LTC1650ACS	LTC1650 / LTC1650ACS#PBF	LTC1650 / LTC1650ACS#TRPBF	LTC1650 / LTC1650AIS
LTC1650 / LTC1650AIS#PBF	LTC1650 / LTC1650AIS#TRPBF	LTC1650 / LTC1650CS#PBF	LTC1650 / LTC1650CS#TRPBF	LTC1650 / LTC1650IS

LTC1650 / LTC1650IS#PBF	LTC1650 / LTC1650IS#TRMPBF	LTC1650 / LTC1650IS#TRPBF	LTC1688 / LTC1688CS	LTC1688 / LTC1688CS#PBF
LTC1688 / LTC1688CS#TR	LTC1688 / LTC1688CS#TRPBF	LTC1688 / LTC1688IS	LTC1688 / LTC1688IS#PBF	LTC1688 / LTC1688IS#TRPBF
LTC1689 / LTC1689CS#PBF	LTC1689 / LTC1689CS#TRPBF	LTC1689 / LTC1689IS	LTC1689 / LTC1689IS#PBF	LTC1689 / LTC1689IS#TR
LTC1689 / LTC1689IS#TRPBF	LTC1689 / LTC1689ES#PBF	LTC1689 / LTC1689ES#TRPBF	LTC1689 / LTC1689IS#PBF	LTC1689 / LTC1689IS#TRPBF
LTC201A / LTC201ACS#PBF	LTC201A / LTC201ACS#TRMPBF	LTC201A / LTC201ACS#TRPBF	LTC202 / LTC202CS#PBF	LTC202 / LTC202CS#TRPBF
LTC203 / LTC203CS#PBF	LTC203 / LTC203CS#TRPBF	LTC221 / LTC221CS#PBF	LTC221 / LTC221CS#TRPBF	LTC222 / LTC222CS#PBF
LTC222 / LTC222CS#TRPBF	LTC3830 / LTC3830ES#PBF	LTC3830 / LTC3830ES#TRPBF	LTC4151 / LTC4151CS-2#PBF	LTC4151 / LTC4151CS-2#TRPBF
LTC4151 / LTC4151IS-2#PBF	LTC4151 / LTC4151IS-2#TRMPBF	LTC4151 / LTC4151IS-2#TRPBF	LTC4279 / LTC4279IS#PBF	LTC4279 / LTC4279IS#TRPBF

Appendix A - Affected ADI Models:

Added Parts On This Revision - Product Family / Model Number (2)

LTC1430 / LTC1430CS#PBF

LTC1430 / LTC1430CS#TRPBF

Automotive Qualification Results Summary of Epoxy change from Henkel 8290 to 8290A

QUALIFICATION RESULTS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD22-A110</i>	3x77	Pass
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	3x77	Pass
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	3x11	Pass
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	1x77	Pass
Electrostatic Discharge <i>Field-Induced Charged Device Model</i>	JEDEC <i>JESD22-C101</i>	3/voltage	Pass

* These samples were subjected to preconditioning (per J-STD-020 Level 1) prior to the start of the stress test. Level 1 preconditioning consists of the following: 1. Bake – 24 hours at 125°C; 2. Soak – unbiased soak for 168 hours at 85°C, 85%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260°C. TC samples were subjected to wire-pull test after 500 cycles with results within specification limits.

Appendix B - Revision History:			
Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	12-Oct-2022	12-Oct-2022	Initial Release
Rev. A	14-Dec-2023	14-Dec-2023	Adding parts.