



Product/Process Change Notice - PCN 22_0050 Rev. -

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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.

PCN Title: UTAC Thai Limited (UTL) as Alternate Assembly Site for MSOP Packages / Devices

Publication Date: 18-Apr-2022

Effectivity Date: 21-Jul-2022 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change:

Add in UTAC Thai Limited (UTL) as an alternative assembly site for specific MSOP devices.

Reason For Change:

Supply chain Resilience Alternate Assembly Site to mitigate supply chain risk to customer.

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

No impact on fit, form, function and reliability.

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

Products assembled in UTAC Thai Limited (UTL) can be identified by the country of origin marked on the packaging label.

Summary of Supporting Information:

Qualification has been performed per AEC-Q100, Stress Test Qualification for Integrated Circuits. See attached Qualification Results Summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_22_0050_Rev_-_Automotive MSOP Assembly Transfer to UTAC (UT3) Rel Summary.pdf

Attachment 2: Type: Delta Qualification Matrix

ADI_PCN_22_0050_Rev_-_MSOP Transfer to UTAC from ADI Penang PCN-Delta-Qualification-Matrix-ZVEI-5_0_9.xlsm

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

Americas:

PCN_Americas@analog.com

Europe:

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Japan:

PCN_Japan@analog.com

Rest of Asia:

PCN_ROA@analog.com

Appendix A - Affected ADI Models				
Added Parts On This Revision - Product Family / Model Number (540)				
LT1494 / LT1494CMS8#PBF	LT1494 / LT1494CMS8#TRMPBF	LT1494 / LT1494CMS8#TRPBF	LT1715S / LT1715HMS#3ZYBPF	LT1720 / LT1720IMS#3ZZPBF
LT1767 / LT1767EMS8-3.3#PBF	LT1767 / LT1767EMS8-3.3#TRMPBF	LT1767 / LT1767EMS8-3.3#TRPBF	LT1945 / LT1945EMS#PBF	LT1945 / LT1945EMS#TRA1PBF
LT1945 / LT1945EMS#TRMPBF	LT1945 / LT1945EMS#TRPBF	LT1945 / LT1945IMS#PBF	LT1945 / LT1945IMS#TRA1PBF	LT1945 / LT1945IMS#TRMPBF
LT1945 / LT1945IMS#TRPBF	LT1947 / LT1947EMS#PBF	LT1947 / LT1947EMS#TRA1PBF	LT1947 / LT1947EMS#TRMPBF	LT1947 / LT1947EMS#TRPBF
LT1947 / LT1947EMSE#PBF	LT1947 / LT1947EMSE#TRPBF	LT1962 / LT1962EMS8-3.3#PBF	LT1962 / LT1962EMS8-3.3#TRMPBF	LT1962 / LT1962EMS8-3.3#TRPBF
LT1962 / LT1962IMS8#TRA1PBF	LT1965 / LT1965EMS8E#2JPPBF	LT1991 / LT1991IMS#PBF	LT1991 / LT1991IMS#TRA1PBF	LT1991 / LT1991IMS#TRPBF
LT1999 / LT1999HMS8-10#3ZZPBF	LT1999 / LT1999HMS8-10#TRA1PBF	LT1999 / LT1999HMS8-10F#3ZZPBF	LT1999 / LT1999HMS8-20#3ZZPBF	LT1999 / LT1999HMS8-20F#3ZZPBF
LT1999 / LT1999HMS8-20F#WPBF	LT1999 / LT1999HMS8-20F#VTRPBF	LT1999 / LT1999HMS8-50#PBF	LT1999 / LT1999HMS8-50#TRPBF	LT1999 / LT1999HMS8-50F#3ZZPBF
LT1999 / LT1999HMS8-50F#WPBF	LT1999 / LT1999HMS8-50F#VTRPBF	LT2940 / LT2940IMS#PBF	LT2940 / LT2940IMS#TRPBF	LT3010 / LT3010EMS8E
LT3010 / LT3010EMS8E#PBF	LT3010 / LT3010EMS8E#TR	LT3010 / LT3010EMS8E#TRMPBF	LT3010 / LT3010EMS8E#TRPBF	LT3010 / LT3010EMS8E-5#PBF
LT3010 / LT3010EMS8E-5#TRMPBF	LT3010 / LT3010EMS8E-5#TRPBF	LT3010 / LT3010HMS8E#3ZZPBF	LT3010 / LT3010HMS8E#PBF	LT3010 / LT3010HMS8E#TRMPBF
LT3010 / LT3010HMS8E#TRPBF	LT3010 / LT3010HMS8E-5#PBF	LT3010 / LT3010HMS8E-5#TRMPBF	LT3010 / LT3010HMS8E-5#TRPBF	LT3042 / LT3042HMS8E#3ZZPBF
LT3055 / LT3055HMS8E#3ZZPBF	LT3063 / LT3063IMS8E#3ZZPBF	LT3080-1 / LT3080EMS8E-1#PBF	LT3080-1 / LT3080EMS8E-1#TRMPBF	LT3080-1 / LT3080EMS8E-1#TRPBF
LT3085 / LT3085IMS8E#PBF	LT3085 / LT3085IMS8E#TRPBF	LT3480 / LT3480EMSE#PBF	LT3480 / LT3480EMSE#TRMPBF	LT3480 / LT3480EMSE#TRPBF
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LT3502 / LT3502EMS#TRMPBF	LT3502 / LT3502EMS#TRPBF	LT3505 / LT3505EMS8E#PBF	LT3505 / LT3505EMS8E#TRPBF	LT3509 / LT3509HMS8E#PBF
LT3509 / LT3509HMS8E#TRPBF	LT3509 / LT3509IMSE#2KUPBF	LT3509 / LT3509IMSE#PBF	LT3509 / LT3509IMSE#TRMPBF	LT3509 / LT3509IMSE#TRPBF
LT3511 / LT3511EMS#PBF	LT3511 / LT3511EMS#TRMPBF	LT3511 / LT3511EMS#TRPBF	LT3511 / LT3511IMS#PBF	LT3511 / LT3511IMS#TRPBF
LT3519 / LT3519IMS#TRA1PBF	LT3573 / LT3573IMSE#3ZZPBF	LT3573 / LT3573IMS#TRA1PBF	LT3574 / LT3574IMS#3ZZPBF	LT3580 / LT3580EMS8E#PBF
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LT3680 / LT3680EMSE#TRMPBF	LT3680 / LT3680EMSE#TRPBF	LT3680 / LT3680IMSE#PBF	LT3680 / LT3680IMSE#TRMPBF	LT3680 / LT3680IMSE#TRPBF
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LT3684 / LT3684IMSE#TRMPBF	LT3684 / LT3684IMSE#TRPBF	LT3685 / LT3685EMSE#2KUPBF	LT3685 / LT3685EMSE#PBF	LT3685 / LT3685EMSE#TRMPBF
LT3685 / LT3685EMSE#TRPBF	LT3685 / LT3685IMSE#3GCPBF	LT3685 / LT3685IMSE#PBF	LT3685 / LT3685IMSE#TRMPBF	LT3685 / LT3685IMSE#TRPBF
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LT3689 / LT3689IMSE#PBF	LT3689 / LT3689IMSE#TRPBF	LT3748 / LT3748HMS#PBF	LT3748 / LT3748HMS#TRMPBF	LT3748 / LT3748HMS#TRPBF
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LTC1968 / LTC1968HMS#TR	LTC2051 / LTC2051HMS#3ZZPBF	LTC2053 / LTC2053HMS#30495PBF	LTC2053 / LTC2053HMS#30549PBF	LTC2055 / LTC2055HMS#3ZZPBF
LTC2055 / LTC2055HMS#3ZZTRPBF	LTC2634 / LTC2634HMS-LMX10#PBF	LTC2634 / LTC2634HMS-LMX10#TRMPBF	LTC2634 / LTC2634HMS-LMX10#TRPBF	LTC2636 / LTC2636HMS-LMX10#PBF
LTC2636 / LTC2636HMS-LMX10#TRPBF	LTC2644 / LTC2644HMS-L12#3ZZPBF	LTC2645 / LTC2645HMS-L10#TRA1PBF	LTC2645 / LTC2645HMS-L8#3ZZPBF	LTC2851 / LTC2851HMS#PBF
LTC2851 / LTC2851HMS#TRPBF	LTC2852 / LTC2852HMS#PBF	LTC2852 / LTC2852HMS#TRMPBF	LTC2852 / LTC2852HMS#TRPBF	LTC2852S / LTC2852HMS#3ZY PBF
LTC2858 / LTC2858HMS-1#3ZZPBF	LTC2858 / LTC2858HMS-2#PBF	LTC2858 / LTC2858HMS-2#TRPBF	LTC2913 / LTC2913HMS-1#PBF	LTC2913 / LTC2913HMS-1#TRMPBF
LTC2913 / LTC2913HMS-1#TRPBF	LTC2913 / LTC2913HMS-2#PBF	LTC2913 / LTC2913HMS-2#TRPBF	LTC2917 / LTC2917HMS-A1#PBF	LTC2917 / LTC2917HMS-A1#TRMPBF
LTC2917 / LTC2917HMS-A1#TRPBF	LTC2917 / LTC2917HMS-A1#TRA1PBF	LTC2917 / LTC2917HMS-B1#TRA1PBF	LTC2918 / LTC2918HMS-B1#2LCPBF	LTC2918 / LTC2918HMS-B1#PBF
LTC2918 / LTC2918HMS-B1#TRA1PBF	LTC2918 / LTC2918HMS-B1#TRPBF	LTC2939 / LTC2939HMS#3ZZPBF	LTC2941 / LTC2941HMS#PBF	LTC2941 / LTC2941HMS#TRPBF
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LTC3548 / LTC3548HMS#TRPBF	LTC3548A / LTC3548HMS#PBF	LTC3548A / LTC3548HMS#TRPBF	LTC3601 / LTC3601HMS#PBF	LTC3601 / LTC3601HMS#TRPBF
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LTC3630A / LTC3630HMS#TRPBF	LTC3630A / LTC3630HMS#PBF	LTC3630A / LTC3630HMS#TRMPBF	LTC3630A / LTC3630HMS#TRPBF	LTC3704 / LTC3704HMS#2BMPBF
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LTC3805-5 / LTC3805HMS-5#TRPBF	LTC3824 / LTC3824HMS#PBF	LTC3824 / LTC3824HMS#TRMPBF	LTC3824 / LTC3824HMS#TRPBF	LTC3824 / LTC3824HMS#PBF
LTC3824 / LTC3824HMS#TRPBF	LTC3824 / LTC3824HMS#3ZZPBF	LTC3824 / LTC3824HMS#PBF	LTC3824 / LTC3824HMS#TRMPBF	LTC3824 / LTC3824HMS#TRPBF
LTC3851 / LTC3851HMS#PBF	LTC3851 / LTC3851HMS#TRPBF	LTC3851A-1 / LTC3851HMS-1#2KUPBF	LTC3851A-1 / LTC3851HMS-1#3ZZPBF	LTC3851A-1 / LTC3851HMS-1#PBF
LTC3851A-1 / LTC3851HMS-1#TRPBF	LTC3854 / LTC3854HMS#PBF	LTC3854 / LTC3854HMS#TRPBF	LTC3864 / LTC3864HMS#PBF	LTC3864 / LTC3864HMS#TRPBF
LTC3864 / LTC3864HMS#3ZZPBF	LTC4150 / LTC4150HMS#3ZZPBF	LTC4211 / LTC4211HMS#2KUPBF	LTC4211 / LTC4211HMS#2KMPBF	LTC4231 / LTC4231HMS-1#3ZZPBF
LTC4231 / LTC4231HMS-1#WPBF	LTC4231 / LTC4231HMS-1#VTRPBF	LTC4231 / LTC4231HMS-2#WPBF	LTC4231 / LTC4231HMS-2#VTRPBF	LTC4231 / LTC4231HMS-1#WPBF
LTC4231 / LTC4231HMS-1#VTRPBF	LTC4231 / LTC4231HMS-2#WPBF	LTC4231 / LTC4231HMS-2#VTRPBF	LTC4307-1 / LTC4307HMS-1#3ZZPBF	LTC4307-1 / LTC4307HMS-1#TRA1PBF
LTC4352 / LTC4352HMS#PBF	LTC4352 / LTC4352HMS#TRPBF	LTC4359 / LTC4359HMS#3KDPBF	LTC4359 / LTC4359HMS#3ZZPBF	LTC4359 / LTC4359HMS#WPBF
LTC4359 / LTC4359HMS#VTRPBF	LTC4359 / LTC4359HMS#3KMPBF	LTC4359 / LTC4359HMS#3ZZPBF	LTC4367 / LTC4367HMS#3ZZPBF	LTC4368 / LTC4368HMS-1#3ZZPBF
LTC4368 / LTC4368HMS-1#WPBF	LTC4368 / LTC4368HMS-1#VTRPBF	LTC4368 / LTC4368HMS-2#3ZZPBF	LTC4368 / LTC4368HMS-2#WPBF	LTC4368 / LTC4368HMS-2#VTRPBF
LTC4368 / LTC4368HMS-1#WPBF	LTC4368 / LTC4368HMS-1#VTRPBF	LTC4368 / LTC4368HMS-2#3ZZPBF	LTC4368 / LTC4368HMS-2#WPBF	LTC4368 / LTC4368HMS-2#VTRPBF

LTC4380 / LTC4380HMS-1#WPBF	LTC4380 / LTC4380HMS-1#WTRPBF	LTC4380 / LTC4380HMS-2#WPBF	LTC4380 / LTC4380HMS-2#WTRPBF	LTC4380 / LTC4380HMS-3#WPBF
LTC4380 / LTC4380HMS-3#WTRPBF	LTC4380 / LTC4380HMS-4#3ZZPBF	LTC4380 / LTC4380HMS-4#WPBF	LTC4380 / LTC4380HMS-4#WTRPBF	LTC4380 / LTC4380IMS-1#WPBF
LTC4380 / LTC4380IMS-1#WTRPBF	LTC4380 / LTC4380IMS-3#WPBF	LTC4380 / LTC4380IMS-3#WTRPBF	LTC4380 / LTC4380IMS-4#WPBF	LTC4380 / LTC4380IMS-4#WTRPBF
LTC4440 / LTC4440EMS8E#PBF	LTC4440 / LTC4440EMS8E#TRPBF	LTC4444 / LTC4444HMS8E#3ZZPBF	LTC6091 / LTC6091HUF8E#3ZZPBF	LTC6103 / LTC6103HMS8#3ZZPBF
LTC6103 / LTC6103HMS8#PBF	LTC6103 / LTC6103HMS8#TRPBF	LTC6104 / LTC6104HMS8#TRA1PBF	LTC6115 / LTC6115HMS#WPBF	LTC6115 / LTC6115HMS#WTRPBF
LTC6244 / LTC6244HMS8#3ZZPBF	LTC6244 / LTC6244HMS8#TRA1PBF	LTC6253 / LTC6253HMS8#3JRPBF	LTC6253 / LTC6253HMS8#3ZZPBF	LTC6652 / LTC6652AHMS8-4.096#PBF
LTC6652 / LTC6652AHMS8-4.096#TRPBF	LTC6652 / LTC6652AHMS8-5#3ZZPBF	LTC6652 / LTC6652BHMS8-2.048#PBF	LTC6652 / LTC6652BHMS8-2.048#TRPBF	LTC6652 / LTC6652BHMS8-4.096#PBF
LTC6652 / LTC6652BHMS8-4.096#TRPBF	LTC6652 / LTC6652BHMS8-5#3ZZPBF	LTC6655 / LTC6655BHMS8-1.25#3ZZPBF	LTC6655 / LTC6655BHMS8-1.25#PBF	LTC6655 / LTC6655BHMS8-1.25#TRMPBF
LTC6655 / LTC6655BHMS8-1.25#TRPBF	LTC6655 / LTC6655BHMS8-2.048#3ZZPBF	LTC6655 / LTC6655BHMS8-4.096#3ZZPBF	LTC6655 / LTC6655CHMS8-1.25#PBF	LTC6655 / LTC6655CHMS8-1.25#TRMPBF
LTC6655 / LTC6655CHMS8-1.25#TRPBF	LTC6820 / LTC6820HMS#3ZZPBF	LTC6820 / LTC6820HMS#3ZZTRPBF	LTC6820 / LTC6820HMS#PBF	LTC6820 / LTC6820HMS#TRMPBF
LTC6820 / LTC6820HMS#TRPBF	LTC6820 / LTC6820IMS#3ZZPBF	LTC6820 / LTC6820IMS#3ZZTRPBF	LTC6820 / LTC6820IMS#PBF	LTC6820 / LTC6820IMS#TRPBF
LTC6930 / LTC6930HMS8-8.00#PBF	LTC6930 / LTC6930HMS8-8.00#TRPBF	LTC6930 / LTC6930IMS8-4.19#PBF	LTC6930 / LTC6930IMS8-4.19#TRPBF	LTC7804 / LTC7804HMS8#3ZZPBF

Appendix B - Revision History			
Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	18-Apr-2022	21-Jul-2022	Initial Release

**Automotive Qualification Results Summary of MSOP Package
at UTAC Thailand (UT3)**

QUALIFICATION RESULTS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	30*11	Pass
Autoclave (AC)*	JEDEC <i>JESD22-A102</i>	16*77	Pass
Unbiased Highly Accelerated Stress Test (UHAST)	JEDEC <i>JESD22-A118</i>	16*77	Pass
Highly Accelerated Stress Test (HAST)	JEDEC <i>JESD22-A110</i>	27*77	Pass
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	33*77	Pass
Wire Bond Shear	AEC <i>Q100-001</i>	2*5	Pass
Post Temperature Cycle Wire Bond Pull	MIL-STD883 <i>Method 2011</i>	5*5	Pass
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	17*45	Pass
High Temperature Operating Life (HTOL)	JEDEC <i>JESD22-A108</i>	10*77	Pass
Early Life Failure Rate (ELFR)	AEC <i>Q100-008</i>	9*800	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.