

Customer Process Change Notification Form PCN-2010-412

Part Information

Cirrus Logic Part # / Quantity

CS3308-CQZ CS5346-CQZ CS3318-CQZ CS42324-CQZ CS4245-CQZ CS42325-CQZ CS5345-CQZ

PCN Effective Date:

Lot Effective Date:

Cirrus P/N Change: Yes No

(Contact the sales representative for availability of samples if applicable)

If yes, provide new part number:

Package Mark Change: Yes No

If Yes, briefly explain:

The assembly identifier will change from WA to BA. xxWAxxxxxyww to xxBAxxxxxyww Country of origin will change from Taiwan to China.

[Any Fab, Assembly, or Design changes results in pack mark changes, please provide detail]

Reason for Change:

- | | |
|--|--|
| <input type="checkbox"/> Design/New Rev | <input type="checkbox"/> Fab Process |
| <input type="checkbox"/> Assembly Site | <input checked="" type="checkbox"/> Additional Assembly Source |
| <input type="checkbox"/> Fab Site | <input type="checkbox"/> Assembly Process |
| <input type="checkbox"/> Other (Specify) | <input type="checkbox"/> Additional Fab Source |

Description of Change:

- | | |
|---|--|
| <input type="checkbox"/> Fix Errata | <input type="checkbox"/> Yield Enhancement |
| <input type="checkbox"/> Fix Known Bug | <input type="checkbox"/> Performance Improvement |
| <input checked="" type="checkbox"/> Other (specify) | |

Addition of assembly site SCC. Summary of Bill of Material Change: 48 LQFP Current - SPIL New Site - SCC Mold Compound Sumitomo G700 No Change Die Attach Sumitomo 1033BF Ablebond 3230 Wire 0.8 mil Au No Change Leadframe 0.205" x 0.205" 0.180" x 0.180" 0.160" x 0.160" 0.157" x 0.157" Finish Matte Sn, 100% No Change

Quality and Reliability Impact:

Qualification Data Required? Yes No



RELIABILITY QUALIFICATION REPORT

Report Date: 10/29/2009

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Reliability Report: QRR091013

Subject/Purpose:

This is to qualify the Bill Of Materials change at STATSChipPAC (China) for the Pb-free 48 and 64 lead LQFP packages to Sumitomo G700 mold compound and Ablebond 3230 epoxy by similarity.

APPROVALS:

Rod Boutwell
Reliability Engineering

Results:

Qualification successful.

STATUS:

Complete - Pass

| <u>Stress</u> | <u>Conditions</u> | <u>Method</u> | <u>Duration</u> | <u>Lot</u> | <u>Results (Fail/Sample)</u> |
|---------------------|--------------------------|---------------|-----------------|------------|------------------------------|
| Precondition MSL-3 | 24HR 125 °C Bake | JESD22-A113 | Precondition | 1 | 0/154 |
| QJ1842 (Similarity) | 192HR 30°C/60%RH Soak | | Precondition | 2 | 0/22 |
| QJ1851 | 3 pass 260 °C Convection | | Precondition | 3 | 0/231 |
| QJ1843 (Similarity) | reflow | | Precondition | 4 | 0/22 |
| QJ1844 (Similarity) | | | Precondition | 5 | 0/22 |
| QJ1845 (Similarity) | | | Precondition | 6 | 0/77 |
| QJ1846 (Similarity) | | | Precondition | 7 | 0/22 |
| QJ1847 (Similarity) | | | Precondition | 8 | 0/231 |
| QJ1848 (Similarity) | | | Precondition | 9 | 0/22 |
| QJ1849 (Similarity) | | | Precondition | 10 | 0/231 |
| QJ1850 | | | | | |

Background Information:

Part #: CX5375 Rev: G Fab: Chartered Lead Finish: Pb-free
 Package: 64LQFP Assembly: STATSChipPAC (China)

Prepared by: Rod Boutwell

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**RELIABILITY
QUALIFICATION
REPORT**

Report Date: 10/29/2009

Reliability Report: QRR091013

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| <u>Stress</u> | <u>Conditions</u> | <u>Method</u> | <u>Duration</u> | <u>Lot</u> | <u>Results (Fail/sample)</u> |
|---------------------------|-------------------|---------------|-----------------|------------|----------------------------------|
| THB | 85 °C | JESD22-A101 | 1000 Hours | 1 | 0/77 |
| QJ1794 (Similarity) | 85 %RH | | 1000 Hours | 2 | 0/77 |
| QJ1795 (Similarity) | 5.25 Volts | | | | |
| QJ1808 | Static | | 1000 Hours | 3 | 0/77 |
| | 85 °C | | | | |
| | 85 %RH | | | | |
| | 5.0 Volts | | | | |
| | Static | | | | |
| Temperature Cycle cond. C | -65 °C | JESD22-A104 | 500 Cycles | 1 | 0/77 |
| QJ1842 (Similarity) | +150 °C | | 500 Cycles | 2 | 0/77 |
| QJ1844 (Similarity) | air to air | | | | |
| QJ1849 (Similarity) | | | 500 Cycles | 3 | 0/77 |
| QJ1851 | | | 500 Cycles | 4 | 0/77 |
| Tomography (CSAM) | | J-STD-035 | Post Temp Cycle | 1 | 0/11 |
| QJ1842 (Similarity) | | | Post Precon | 2 | 0/22 |
| QJ1843 (Similarity) | | | | | |
| QJ1844 (Similarity) | | | Post Temp Cycle | 3 | 0/11 |
| QJ1845 (Similarity) | | | | | |
| QJ1846 (Similarity) | | | Post Precon | 4 | 0/22 |
| QJ1848 (Similarity) | | | Post Precon | 5 | 0/22 |
| QJ1849 (Similarity) | | | | | |
| QJ1850 | | | Post Precon | 6 | 0/22 |
| QJ1851 | | | Post Temp Cycle | 7 | 0/11 |
| | | | Post Precon | 8 | 0/22 |
| | | | Post Temp Cycle | 9 | 0/11 |

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Part #: CX5375 Rev: G Fab: Chartered Lead Finish: Pb-free
 Package: 64LQFP Assembly: STATChipPAC (China)

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| <u>Stress</u> | <u>Conditions</u> | <u>Method</u> | <u>Duration</u> | <u>Lot</u> | <u>Results</u> <u>(Fail/sample)</u> |
|-------------------------------|--------------------|---------------|-----------------|------------|--|
| Autoclave/PPOT | 121 °C | JESD22-A102 | 96 Hours | 1 | 0/77 |
| QJ1844 (Similarity) | 15 psig | | 96 Hours | 2 | 0/77 |
| QJ1847 (Similarity) | 100% R.H. | | 96 Hours | 3 | 0/77 |
| QJ1849 (Similarity) | | | 96 Hours | 4 | 0/77 |
| QJ1851 | | | | | |
| Solderability | 93 °C steam aging | JESD22-B102 | Solderability | 1 | 0/15 |
| QJ1842 (Similarity) | 8 Hours | | Solderability | 2 | 0/15 |
| QJ1849 (Similarity) | 245 °C solder bath | | Solderability | 3 | 0/15 |
| QJ1851 | 5 Seconds | | | | |
| HTSL (High Temp Storage Life) | 150 °C | JESD22-A103 | 500 Hours | 1 | 0/77 |
| QJ1842 (Similarity) | | | 1000 Hours | 1 | 0/77 |
| QJ1849 (Similarity) | | | 500 Hours | 2 | 0/77 |
| QJ1851 | | | 1000 Hours | 2 | 0/77 |
| | | | 500 Hours | 3 | 0/77 |
| | | | 1000 Hours | 3 | 0/77 |

Background Information:

Part #: CX5375 Rev: G Fab: Chartered Lead Finish: Pb-free
Package: 64LQFP Assembly: STATChipPAC (China)

Data Sheet Change Required? Yes No

If Yes, briefly explain:

Software Change Required? Yes No

If Yes, briefly explain:

Customer Acknowledgement and Agreement

Acknowledged and Agreed as of the Date written below:

Customer Company _____
Name:


Customer Contact _____
Name:
Title: _____

Signature: _____

Date:

Customer Agreed Customer Reject Not Applicable

Customer Comments:

| | | | |
|---|--|-------------------------|-----------|
|  | Title: CUSTOMER PROCESS CHANGE NOTIFICATION FORM | | |
| | Digitally Signed By: | Doc No: 4-QUAL-00017 | Rev: D |