



Process Change Notification Form

PCN Number:	PCN_0242_CS510x_CS532x_ANST
Date of Notification:	11/07/08
Cirrus Logic P/N(s):	CS5102A-BLZ, CS5102A-BLZR, CS5102A-JLZ, CS5102A-JLZR, CS5101A-BLZ, CS5101A-BL8ZR, CS5101A-JL8Z, CS5101A-JL8ZR, CS5321-BLZ, CS5321-BLZR, CS5322-BLZ, CS5322-BLZR
Date PCN Effective:	12/31/08
Reason for Change:	<input type="checkbox"/> Design /New Rev. <input type="checkbox"/> Fab Site <input type="checkbox"/> Fab Process <input type="checkbox"/> Additional Fab Source <input type="checkbox"/> Assembly Site <input type="checkbox"/> Assembly Process <input checked="" type="checkbox"/> Additional Assembly Source <input type="checkbox"/> Other (specify)
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: 1) Addition of ANST assembly site 2) MSL = 2, peak reflow = 245°C 3) ASE to ANST – Bill of Materials Comparison – See attachment <p style="text-align: center;">***SEE PAGES BELOW***</p>
Cirrus Logic P/N Change:	<input type="checkbox"/> Yes, New Part Number: <input checked="" type="checkbox"/> No
Pack Mark Change:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, briefly explain: The assembly identifier will change from TA to AA. GF T ARXXX to GF A ARXXX <i>[Any Fab, Assembly, or Design changes results in pack mark changes, please provide detail]</i>
Lot Effective Date:	12/31/08 <i>[Contact the area sales representative for availability of samples if applicable]</i>
Quality & Reliability impact:	Qualification Data: <input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required Assembly Qualification Data attached. <p style="text-align: center;">***SEE PAGES BELOW***</p>
Datasheet Change Required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, briefly explain:
Software Change Required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, briefly explain:

ASE to ANST - Bill of Materials Comparison

	ASE – Kaohsiung (Current)	ANST (New)
Leadframe	Copper 320x320 mil die pad	Copper 320x320 mil die pad
Die Attach	Sumitomo 1076DS	Ablestik 8290
Mold Compound	Sumitomo G700A	Sumitomo G700
Bond Wire	Gold - 1.2 mil diameter	Gold - 1.2 mil diameter
Plating	100% matte tin	100% matte tin
Marking	Ink	Laser

	ASE – Kaohsiung (Current)	ANST (New)
Leadframe	Copper 260x260 mil die pad	Copper 260x260 mil die pad
Die Attach	Sumitomo 1076DS	Ablestik 8290
Mold Compound	Sumitomo G700A	Sumitomo G700
Bond Wire	Gold - 1.2 mil diameter	Gold - 1.2 mil diameter
Plating	100% matte tin	100% matte tin
Marking	Ink	Laser

	ASE – Kaohsiung (Current)	ANST (New)
Leadframe	Copper 350x350 mil die pad	Copper 350x350 mil die pad
Die Attach	Sumitomo 1076DS	Ablestik 8290
Mold Compound	Sumitomo G700A	Sumitomo G700
Bond Wire	Gold - 1.2 mil diameter	Gold - 1.2 mil diameter
Plating	100% matte tin	100% matte tin
Marking	Ink	Laser

RELIABILITY QUALIFICATION REPORT

Report Date: 10/23/2007

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Reliability Report: QRR070903

<p>Subject/Purpose: This is to qualify the ANST assembly site for the 28PLCC and 44PLCC family of packages for both SnPb and Pb-Free.</p>	<p>APPROVALS: <div style="text-align: center;"> <u>Rod Boutwell</u> Reliability Engineering </div> </p>
<p>Results: Qualification successful.</p>	<p>STATUS: Complete - Pass</p>

<u>Stress</u>	<u>Conditions</u>	<u>Method</u>	<u>Duration</u>	<u>Lot</u>	<u>Results (Fail/Sample)</u>
Preconditioning MSL-2 QJ1429	24HR 125 °C Bake 168HR 85/60 °C/%RH Soak 3 pass 260 °C Convection reflow	JESD22-A113	Precondition	1	0/231
TMCL-C QJ1429	-65 °C +150 °C air to air	JESD22-A104	500 Cycles	1	0/77
Tomography QJ1429		J-STD-035	500 TCC	1	0/11
Autoclave/PPOT QJ1429	121 °C 15 psig 100% R.H.	JESD22-A102	96 Hours	1	0/77
Solderability QJ1429	93 °C steam aging 8 Hours 245 °C solder bath 5 Seconds	JESD22-B102	Solderability	1	0/15
HTSL (high-temp storage life) QJ1429	150 °C	JESD22-A103	500 Hours 1000 Hours	1 1	0/77 0/77
Preconditioning MSL-2 QJ1440	24HR 125 °C Bake 168HR 85/60 °C/%RH Soak 3 pass 260 °C Convection	JESD22-A113	Precondition	1	0/231
THB QJ1440	85 °C 85 %RH	JESD22-A101	500 Hours 1000 Hours	1 1	0/77 0/77
TMCL-C QJ1440	-65 °C +150 °C air to air	JESD22-A104	500 Cycles	1	0/77

Background Information:

Part #: ANST PLCC	Rev:	Fab:	Lead Finish: SnPb and Pb-free
Package: PLCC		Assembly: ANST (China)	

Prepared by: Rod Boutwell

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RELIABILITY QUALIFICATION REPORT

Report Date: 10/23/2007

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Reliability Report: QRR070903

<u>Stress</u>	<u>Conditions</u>	<u>Method</u>	<u>Duration</u>	<u>Lot</u>	<u>Results (Fail/sample)</u>
Tomography QJ1440		J-STD-035	500 TCC	1	0/11
Autoclave/PPOT QJ1440	121 °C 15 psig 100% R.H.	JESD22-A102	96 Hours	1	0/77
Preconditioning MSL-2 QJ1462	24HR 125 °C Bake	JESD22-A113	Precondition	1	0/231
QJ1463	168HR 85/60 °C/%RH Soak		Precondition	2	0/231
QJ1464	3 pass 245 °C Convection reflow		Precondition	3	0/231
TMCL-C QJ1462	-65 °C	JESD22-A104	500 Cycles	1	0/77
QJ1463	+150 °C		500 Cycles	2	0/77
QJ1464	air to air		500 Cycles	3	0/77
Tomography QJ1462		J-STD-035	500 TCC	1	0/5
QJ1463			500 TCC	2	0/5
QJ1464			500 TCC	3	0/5
Autoclave/PPOT QJ1462	121 °C	JESD22-A102	96 Hours	1	0/77
QJ1463	15 psig		96 Hours	2	0/77
QJ1464	100% R.H.		96 Hours	3	0/77
Unbiased HAST QJ1462	130 °C 85 %RH	JESD22-A118	96 Hours	1	0/77

Background Information:

Part #: ANST PLCC
Package: PLCC

Rev:

Fab:
Assembly: ANST (China)

Lead Finish: SnPb and Pb-free

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RELIABILITY QUALIFICATION REPORT

Report Date: 10/23/2007

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Reliability Report: QRR070903

<u>Stress</u>	<u>Conditions</u>	<u>Method</u>	<u>Duration</u>	<u>Lot</u>	<u>Results</u> <u>(Fail/sample)</u>
Solderability QJ1462	93 °C steam aging 8 Hours 245 °C solder bath 5 Seconds	JESD22-B102	Solderability	1	0/15
Unbiased HAST QJ1463	130 °C 85 %RH	JESD22-A118	96 Hours	1	0/77
Unbiased HAST QJ1464	130 °C 85 %RH	JESD22-A118	96 Hours	1	0/77
HTSL (high-temp storage life) QJ1462	150 °C	JESD22-A103	500 Hours 1000 Hours	1 1	0/77 0/77

Background Information:

Part #: ANST PLCC
Package: PLCC

Rev:

Fab:
Assembly: ANST (China)

Lead Finish: SnPb and Pb-free

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Cirrus Logic PCN administrator: _____

Acknowledgement of Receipt of Notice:

Does customer waive PCN Effective Date? YES NO

Company Name: _____

Name (please print): _____ Title: _____

Signature: _____ Date: _____

Customer Representative is to obtain the customer acknowledgement/signature and return this notification to Cirrus Logic Corp. Quality, attn: PCN administrator at fax number (512) 851-4656

***NOTE: Lack of acknowledgement within 30 days of the date of notice, constitutes acceptance of change.
(Reference JEDEC Industry Standard: JESD-46)***