Process Change Notification

PCN Number: PCN-2015-23 **PCN Notification Date:** 8/7/2015

Informational PCN

WM8998 Carrier tape change

Dear Customer,

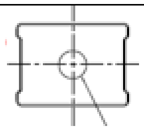
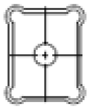
This notification is to advise you of the following change(s).

From 1st September 2015 onwards, Cirrus Logic will transition WM8998 product from Carrier tape KS-1208-810 to Carrier tape CCA114-A.

CCA114-A carrier tape has increased relief areas in pocket corners to improve the robustness of the carrier tape and reduce the risk of mechanical damage during shipment.

Drop test results for this carrier tape have been performed with 100% pass result.

Some mechanical setup changes will be required in SMT to accommodate this new tape. Details are shown below:

	KS1208-810	CCA114-A
A0	5.64 +/-0.1mm	4.33 +/-0.05mm
B0	4.38 +/-0.1mm	5.74 +/-0.05mm
C0	0.8 +/-0.1mm	0.78 +/-0.1mm
		

If you have any questions, please contact your Sales Representative.

Sincerely,

Quality Systems Administrator
Cirrus Logic Corporate Quality
Phone: +1(512) 851-4000

CIRRUS LOGIC Process Change Notification

PCN Number: PCN-2015-23 **PCN Notification Date:** 8/7/2015

Products Affected:

The devices listed on this page are the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

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

Title:	WM8998 Carrier tape change				
Customer Contact:	N/A	**Phone:**		**Dept:**	
Proposed 1st Ship Date:	09 2015	**Estimated Sample Availability Date:**	08 2015		
Change Type:					
☐	Assembly Site	☐	Assembly Process	☒	Assembly Materials
☐	Wafer Fab Site	☐	Wafer Fab Process	☐	Wafer Fab Materials
☐	Wafer Bump Site	☐	Wafer Bump Process	☐	Wafer Bump Material
☐	Test Site	☐	Test Process	☐	Design
☐	Electrical Specification	☐	Mechanical Specification	☐	Part Number
☐	Packing/Shipping/Labeling	☐	Other	☐	
Comments:					

PCN Details

Description of Change:

Carrier tape modified with increased relief areas in pocket corners to improve the mechanical robustness of the carrier tape during product shipments.

- Change Type Here:
  From: KS-1208-810 To: CCA114-A

Reason for Change:

To improve the mechanical robustness of the carrier tape.

Anticipated Impact on Form, Fit, Function, Quality or Reliability:

Improved quality by implementing new tape design to improve the mechanical robustness and reduce risk of mechanical damage during the shipping process.

Product Affected:

Device	Cirrus Logic Part Number
1	WM8998ECS/R

PCN Number: PCN-2015-23 **PCN Notification Date:** 8/7/2015

Changes To Product Identification Resulting From This PCN:
No change

Qualification Data:

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qualification Schedule	**Start:**	03 2015	**End:**	03 2015

Qualification Device Construction Details		
Detail Description	**Device 1**	**Device 2**
Part Number(s):	WM8998ECS/R	
Wafer Fab Site Code/Name:	F5 / TSMC Fab5 (Taiwan)	
Wafer Technology:	152 nm	
Die Size:	5.31 x 4.05 mm	
Assembly Site Code/Name:	ATT5 / Amkor T5 (Taiwan)	
Package Type/Code:	WLCSP	
Moisture Level:	MSL1	
Package Pins:	117 ball	
Lead Frame Material:	N/A	
Mold Compound Supplier:	N/A	
Lead Finish:	N/A	
Die Attach Material	N/A	
Wire Diameter:	N/A	
Wire Base Metal:	N/A	

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The Qualification Plans are designed using JEDEC and other applicable industry standards. An overall summary of the Qualification results will be submitted upon completion.

WM8998ECS/R Qualification

WM8998ECS/R Qualification: ☐ **Plan** ☒ **Test Results**			
Reliability Test			**Sample Size (PASS/FAIL)**
DT (Drop test)	ISTA 2A 2008	One reel of 4,500 parts reeled with new carrier tape, packed within one shipping carton dropped on 1 corner, 3 edges, and 6 faces. 100% inspection post drop test.	4500 / **0 fail**
PS (Peel strength test)	EIA 481, IEC 286-3	3 strips of new carrier tape (minimum length 240mm) sealed with cover tape. 100% inspection to check for delamination of cover tape from carrier tape	3 / **0 fail**
TTM (Twist test method)	EIA 481, IEC 286-3	30cm of sealed tape subjected to twist stress testing. 100% inspection post-test to check for delamination of cover tape from carrier tape.	1 / **0 fail**

Notes:

- Qualification tests "pass" on zero fails for each test

Reliability Qualification Results:

N/A