



Process Change Notification

PCN Number: PCN-2019-126

PCN Notification Date: 11/22/2019

Initial PCN

Wafer Fabrication site transfers from Fab3E to Fab5 of Global Foundries in Singapore

Dear Customer,

This notification is to advise you of the following change.

Wafer fabrication site transfers from Fab3E to Fab5 of Global Foundries in Singapore.

Cirrus Logic will re-qualify all devices which are impacted by this change.

The described change(s) within this PCN will not take effect (i.e. Shipped) any earlier than 90 days from Initial PCN notification or the successful completion of the Cirrus Logic qualification, unless a customer agreement has been reached on an earlier implementation of the identified process change.

Cirrus Logic would like to take this opportunity to thank our customers for their cooperation and assistance in this respective matter. Any specific or immediate inquiries should be directed to your local Field Sales Representative.

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

Sincerely,

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



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Products Affected:

The devices listed on subsequent pages are the complete list of affected devices. According to our records, one or more of these devices have been purchased by your organization 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:	Wafer Fabrication site transfers from Fab3E to Fab5 of Global Foundries in Singapore				
Customer Contact:	Local Field Sales Representative	Phone	(512) 851-4000	Dept:	Corporate Quality
Proposed 1st Ship Date:	Q4 2020	Estimated Sample Availability Date:		Q2 2020	
Change Type:					
	Assembly Site		Assembly Process		Assembly Materials
X	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	X	Other		
Comments:	"Other" – Device marking format and pin orientation				

PCN Details















Description of Change(s):

- Fabrication site change from GF (Global Foundries) Fab3E to Fab5

Affected Cirrus Logic Part Number
WM1699GEFL/RV
WM8233GEFL/RV
WM8234GEFL/RV
WM8235GEFL/RV
WM8231GEFL/RV
WM8962BECSN/R
WM8994ECS/R
WM8963ECSN/R
WM8958ECS/R

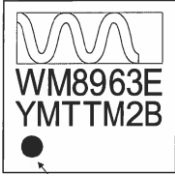



- Marking Format and Pin Orientation: Consistent with Cirrus Logic Mark Format Standard**

Note: Cirrus Logic acquired Wolfson in August 2014

Cirrus Logic Part Number	From	To	
WM1699GEFL/RV			<p>TOP SIDE BRAND</p> <p>Line 1: Part Number Line 2: Package Mark Line 3: Country of Origin</p> <p>PACKAGE MARK FIELDS</p> <p>12 character Package Mark appears on PO as 6 fields of 2 characters each in the following format: FFAARRLLYYWW where, FF = Foundry Code AA = Assembly Site Code RR = Die Rev Code LL = Lot Sequence Code YY = Year of Manufacture WW = Work Week of Manufacture</p>
WM8233GEFL/RV			
WM8234GEFL/RV			
WM8235GEFL/RV			
WM8231GEFL/RV			
WM8962BECSN/R			
WM8994ECS/R			

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Cirrus Logic Part Number	From	To	
WM8963ECSN/R			
WM8958ECS/R			

Reason for Change:

Global Foundries Fab3E site will stop production by June 2020.

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

No anticipated adverse impact to the Quality and/or Reliability of said product. However, the customer may have to adjust Pick-N-Place recognition system to adapt to the Cirrus Logic part marking and pin orientation standardization.

Anticipated Impact on Material Declaration:

- No Impact to the Material Declaration
 Material Declarations or Product Content reports are driven from production data and will be available following the production release.

Product Affected:

Cirrus Logic Part Number
WM1699GEFL/RV
WM8233GEFL/RV
WM8234GEFL/RV
WM8235GEFL/RV
WM8231GEFL/RV
WM8962BECSN/R
WM8994ECS/R
WM8963ECSN/R
WM8958ECS/R

Qualification Plan

Qualification: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> Test Results			
Reliability Test	Standard	Conditions	Sample Size (PASS/FAIL)
ESD-HBM (Human Body Model ESD)	JS-001	JS-001	1 Lot @ 3 pcs ea.
ESD-CDM (Charged Device Model ESD)	JS-002	JS-002	1 Lot @ 3 pcs ea.
LU (Latch-Up)	JESD78	+ / - 100 mA, 1.5xVDDmax	1 Lot @ 3 pcs ea.
ELFR (Early Life Failure Rate)	JESD22-A108	125°C / Dynamic Bias, 48hrs	1 Lot @ 1000 pcs ea.
HTOL (High Temperature Operating Life)	JESD22-A108	125°C / Dynamic Bias, 1000hrs	1 Lot @ 77 pcs ea.
HTSL (High Temperature Storage Life)	JESD22-A103	150°C, 1000 Hrs	3 Lots @ 77 pcs ea.
PC (Precondition)	J-STD-020	Bake: 24Hr 125°C; MSL 3 192Hrs 30°C / 60% RH Soak, (Reflow 260°C x3)	3 Lots @ 77 pcs ea.
TC (Temperature Cycling)	JESD22-A104	-40°C to +125°C for 1000 cycles (Post Precon)	3 Lots @ 77 pcs ea.

Notes:

- Qualification tests “pass” on zero fails for each test.
- The WM8235 component will serve as the primary qualification vehicle for silicon qualification and WM8231, WM8233, WM1699, and WM8234 components are QBS (Qualified By Similarity).
 - Test HBM, CDM, LU, ELFR, HTOL and HTSL items
- The WM8958 component will serve as the primary qualification vehicle for silicon qualification and WM8962, WM8963, and WM8994 components are QBS.
 - Test HBM, CDM, LU, ELFR, HTOL and HTSL items
- The WM8233 component will serve as the primary qualification vehicle for package qualification and WM8231 component is QBS.
 - Test HTSL, PC, and TC items
- The WM8235 component will serve as the primary qualification vehicle for package qualification and WM1699 and WM8234 components are QBS.
 - Test HTSL, PC, and TC items
- The WM8958 component will serve as the primary qualification vehicle for package qualification and WM8962, WM8963, and WM8994 components are QBS.
 - Test HTSL, PC, and TC items

Reliability Qualification Results:

- A summary of the final results will be communicated upon successful completion of the qualification.