

CIRRUS LOGIC Process Change Notification

PCN Number: PCN-2015-27

PCN Notification Date: 11/03/2015

Informational

WM8727CGED Leadframe Change

Dear Customer,

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

Due to a fire at our WM8727 lead-frame supplier, we have qualified MITSUI as our new supplier.

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 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):	WM8727CGED	Leadf	rame Suppli	er Chang	ge				
Cus	tomer Contact:	Local Field Sales	s Rep	resentative	Phone:	(512) 851-4	000	Dept:	Corp	orate Quality
Pro	posed 1 st Ship Dat	e:	01 2	016	Estima	ted Sample	Avai	lability D	ate:	10 2015
Cha	nge Type:									
	Assembly Site			Assembly I	Process		Х	Assemb		
	Wafer Fab Site			Wafer Fab	Process	i		Wafer F	ab Ma	aterials
	Wafer Bump Site			Wafer Burr	p Proce	SS		Wafer E	Bump I	Material
	Test Site			Test Proce	SS			Design		
	Electrical Specifica	ation		Mechanica	I Specifi	cation		Part Nu	mber	
	Packing/Shipping/	Labeling		Other						
Con	nments:									

	PCN Details		
Description of Change:			
Due to a fire at the current WM8727 leadfr	ame manufacturer we have o	qualified a new supplier	
	Current Leadframe	New Leadframe]
Manufacturer	PSMC	MITSUI	1
			-
Reason for Change:			
In order to ensure continuity of supply for a	our customers		
Anticipated Impact on Form, Fit, Function	on, Quality or Reliability:		
No impact to form, fit or function			
Product Affected:			
			
Cirrus Logic Part Number		Customer Part Number	
WM8727CGED			
WM8727CGED/R			



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Changes To Product Identificati	on Resulting From This PCN:
Current leadframe product MMC	: 5UI
New leadframe product MMC	: CY3

Qualification Data:

Qualif	ication Complete	10 2015	Status	Passed
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Summary

The WM8727CGED device has passed all Cirrus product qualification requirements.

Silicon level reliability

- 1000 hours of High Temperature Operating Life (HTOL) testing.
- · Electrostatic Discharge (ESD) testing.
- Latch-Up testing.

The package level reliability was qualified by similarity to the WM8762CGED device for HTS, MSL and TC which is assembled in an ASE Chungli SOIC8 package.

Package level reliability

- 1000 hours of High Temperature Storage (HTS) testing.
- 1000 hours of Temperature, Humidity & Bias (THB) testing.
- Moisture Sensitivity Level (MSL) testing at MSL 1 and subsequent Temperature Cycling for 500 cycles.

Revision	1.0	
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Test Lots: (1) 4923 (31ACAI (2) 16761A (73AII (3) 31031 (0AAA5 (4) 423511 (56AA	R6X) JUI)				
<u>Silicon Level Tests</u> Stress Test	Test Conditions	JESD22 Spec	Pre- condition	Test Duration	Fails/Passes (Lot)
High Temperature Operating Life (HTOL) testing	125℃ V1= 5.5V Dynamic	A108	-	1000 hours	0/77(1)
Electrostatic Discharge (ESD) Sensitivity Testing Human Body Model (HBM)	>= Class 2 ESD pulse of 2000V HBM	A114	-	-	0/3 (1)
Electrostatic Discharge (ESD) Sensitivity Testing Machine Model (MM)	>= Class B ESD pulse of 200V MM	A115	-	-	0/3 (1)
Field-Induced Charged-Device Model (CDM) Test Method for Electrostatic Discharge (ESD)	>= Class III ESD pulse of 500V CDM	C101	-	-	0/3 (2)
IC Latch-Up Test	Class II Level A +/-100mA Current Injection and 1.5xMax Vsupply Overvoltage	JESD78	-	-	0/3 (1)

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Stress Test	Test Conditions	JESD22 Spec	Pre- condition	Test Duration	Fails/Passes (Lot)
High Temperature Storage (HTS) testing	150°C No bias	A103	•	1000 hours	0/77 (4)
Temperature, Humidity & Bias (THB) testing	85°C/85%RH VI= 5.5 V	A101	(a)	1000 hours	0/77 (3)
Moisture Sensitivity Level (MSL) testing	MSL 1 (Peak IR reflow temperature = 260°C)	J-STD-020	-	-	0/77 (4)
Temperature Cycling	-65°C to +150°C Transfer time < 1 minute Soak time > 10 minutes	A104	(a)	500 cycles	0/77 (4)

Pre-condition: JEDEC Moisture Sensitivity Level 1 (JESD22 = A113) (a)

Revision History

1.0 29/06/2011 Melwin Antony Initial release
1.1 23/08/2011 Melwin Antony Added 'C' to the part number to indic copper bond wire
1.2 28/10/2015 Russell McMillan HTS, MSL and TC rerun for new leadframe material
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