



Process Change Notification

PCN Number: PCN-2020-129

PCN Notification Date: 04/11/2020

Lead Frame Supplier Source change to support the 32 VQFN component material

Dear Customer,

This is an Initial Product Change Notification (PCN) for the Lead Frame supplier source of 32 VQFN component material from Dynacraft Industries Sdn. Bhd. (Penang, Malaysia) to Mitsui High-tec Inc. (Fukuoka Japan).

The described change(s) within this PCN will not take effect (i.e. Shipped) any earlier than 60 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 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.

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:		Lead Frame Supplier Source change to support the 32 VQFN component material						
Customer Contact:		Local Field Sales Representative		Phone:	(512) 851-4000	Dept:	Corporate Quality	
Proposed 1st Ship Date:			July 2020		Estimated Sample Availability Date:			June 2020
	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	X	Mechanical Specification				Part Number	
	Packing/Shipping/Labeling	X	Other			X	Data Sheet	
Comments:		Lead Frame Material Supplier						

PCN Details

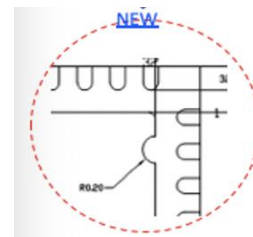
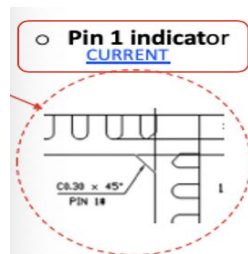
Description of Change:

- Lead Frame Supplier:**
 - From:** Dynacraft Industries Sdn. Bhd. (Penang, Malaysia)
 - To:** Mitsui High-tec Inc. (Fukuoka Japan)
 - Note:** Mitsui High-tec Inc. is an existing Cirrus Logic qualified supplier
- Lead Frame POD (Package Outline Drawing) Dimension(s):**
 (Reference Appendix A: Dimensional Comparison Drawing)
 (POD Remains Consistent with JEDEC Standard)

	Dim	CURRENT			NEW		
		Min	Nom	Max	Min	Nom	Max
pkg height	A	0.85	0.9	0.95	0.8	0.85	0.9
metal exposed X	D2	3.60	3.70	3.80	3.55	3.65	3.75
metal exposed Y	E2	3.60	3.70	3.80	3.55	3.65	3.75
foot length	L	0.35	0.40	0.45	0.30	0.35	0.40
gap: foot vs metal exposed	K	0.2	--	--	--	0.33	--

Note: Data sheet package dimensions will be update accordingly

- Pin 1 Style Designation on Heat Sink:**



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Special Note: Items Remaining the Same

- **Lead Frame Material:**
Remains the same: C194
- **Mold Compound Material:**
Remains the same: Hitachi CEL 9240
- **DIE Attach Material:**
Remains the same: Ablebond 8290
- **Moisture Sensitivity Level (MSL):**
Remains the same: MSL 3

Reason for Change:

Maintain continuity of material supply.

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

No anticipated adverse impact to the quality and/or reliability of said product.

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:

Device	Cirrus Logic Part Number	Device	Cirrus Logic Part Number
1	CS8422-CNZ[R]	11	CS53L21-DNZ
2	CS8422-CNZR	12	CS53L21-DNZR
3	CS42L51-CNZ	13	CS4265-CNZ
4	CS42L51-CNZR	14	CS4265-CNZR
5	CS42L51-DNZ	15	CS4265-DNZ
6	CS42L51-DNZR	16	CS4265-DNZR
7	CS43L21-CNZ	17	CS547329-INZ
8	CS43L21-CNZR	18	CS547329-INZR
9	CS53L21-CNZ	19	CS547366-INZ
10	CS53L21-CNZR	20	CS547366-INZR

Changes To Product Identification Resulting From This PCN:

There are no changes to the production identification

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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.

Qualification Plan

CS4265-xNZ[R]/C1 Qualification: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> Test Results			
Reliability Test	Standard	Conditions	Sample Size (PASS/FAIL)
Pre-Conditioning	JEDEC J-STD-020A	MSL3 / 260°C (1 Lots)	# / 22
Die Shear Strength	MIL-STD-883 METHOD 2019		# / 40
WBS (Wire Bond Shear)	JESD22 B116	Paragraph 4 (Procedure) (# Lots)	# / 40
WBP (Wire Bond Pull)	MIL-STD-883 Method 2011	Paragraph 3 (Procedure) (# Lots)	# / 40
Plating Thickness			# / 22 points
SD (Solderability)	JESD22 B102	245°C / 8 hr steam age before SD (1 Lots)	# / 15
PD (Physical Dimensions)	JESD22 B100 + B108	Package outline per JESD95 Cpk > 1.50 per JESD95 (1 Lots)	# / 40
<p>Notes:</p> <ul style="list-style-type: none"> Qualification tests “pass” on zero fails for each test CS4265-xNZ[R]/C1 serves as the Qualification Vehicle for the 32 VQFN Lead Frame Material <p>Reliability Qualification Results:</p> <ul style="list-style-type: none"> Results of the qualification are pending 			