

CIRRUS LOGIC Process Change Notification

PCN Number: PCN-000011

PCN Notification Date: 08/04/2023

Informational PCN

GPM (Gallant Precision Machine Co., Ltd.) – GF-3111 Dejunk / Trim and Form Machine Addition

Dear Customer,

This Informational PCN notification is to advise you of the following change(s):

- A GPM GF-3111 DeJunk / Trim and Form Machine has been added to our production level process to ensure continuity of supply for CS5490-ISZ[R] 16L SOIC material.
- There is no anticipated adverse impact to the Fit, Function, Quality and/or Reliability of said product as the given process is mature.
- However, the aesthetic Form changes with exposed copper on the Gull Wing component leads that extend out of the shoulder of the package body. (Reference Page 3 Detail)

The change is effective immediately, is a running integration into our existing process and the existing equipment will be phase out during 2024 due to lack of operational support. You will find all relevant details below within the contents of this notification.

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

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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:		GPM (Gallant Precision Machine Co., Ltd.) – GF-3111 Dejunk / Trim and Form Machine Addition									
Customer Contact: Local Field			ales Representative Phone: (512) 851-4				851-4	000	Dept:	Corporate Quality	
Pro	posed 1 st Ship Dat	e:	Immediate Estimated Sample Avai			Availa	ability	y Date:	Not Applicable		
Cha	nge 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			Х	Other							
Comments:		Addition of GPM GF-3111 Dejunk / Trim and Form Machine									





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Reason for Change:

Serves as an additional qualified process tool to facilitate maintaining continuity of supply and mitigate the phased out of operational support of existing equipment.

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

No anticipated adverse impact to the Fit, Function, Quality and/or Reliability of said product as the given process is mature.

However, the aesthetic Form changes with exposed copper on the Gull Wing component leads that extend out of the shoulder of the package. Reference example imagery below:

Before: Stand along D/J before plating 無 露銅 After:



Per JEDEC established standard J-STD-002D Section 4.2.1.6.2 Accept/Reject/Criteria:

4.2.1.6.2 Accept/Reject Criteria All leads shall exhibit a continuous solder coating free from defects for a minimum of 95% of the critical area of any individual lead. For exposed pad packages the exposed pad surfaces shall exhibit a continuous solder coating free from defects for a minimum of 80% of the critical area of those surfaces. Anomalies other than dewetting, nonwetting, and pin holes are not cause for rejection (see Appendices A and B). Exposed terminal metal is allowable on surface mount components at the toe end and on the vertical surfaces that are either unplated or sheared during component fabrication.

Critical Area(s) depicted from Appendices A and B for Gull Wing components below:



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Anticipated Impact on Material Declaration:

 \boxtimes 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
1	CS5490-ISZ
2	CS5490-ISZR

Changes To Product Identification Resulting From This PCN:

No change to product 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.

CS5490-ISZ - Qualification

CS5490-ISZ Qualification:	Plan 🛛 Test Results						
Reliability Test	Standard	Conditions	Sample Size (PASS/FAIL)				
HTSL (High Temperature Storage Life)	JESD22 A103	+150°C for 1000 hrs (3 Lots) – 77 units/Lot	231/ 0				
Pre-Conditioning	JEDEC J-STD-020 JESD22-A113	MSL3 (85°C/85% RH, 168hrs) (3 Lots) – 231 units/Lot	693 / 0				
Temperature Cycle	JESD22 A104	-65°C to +150°C for 500 cycles (3 Lots) – 77 units/Lot	231 / 0				
uHAST (Unbiased HAST)	JESD22 A118	+110°C/85% RH, 264 hrs (3 Lots) – 77 units/Lot	231 / 0				
bHAST (Biased HAST)	JESD22 A110	+110°C/85% RH, 264 hrs (3 Lots) – 90 units/Lot	231 / 0				
WBP (Wire Bond Pull)	MIL-STD-883 Method 2011	Paragraph 3 (Procedure) (3 Lots – 5 units / Lot)	15 / 0				
WBS (Wire Bond Shear)	JESD22 B116	Paragraph 4 (Procedure) (3 Lots – 5 units / Lot)	15 / 0				
SD (Solderability)	JESD22 B102	245°C / 8 hr steam age before SD (3 Lot – 5 units)	15 / 0				
PD (Physical Dimensions)	JESD22 B100 + B108	Package outline per JESD95 Cpk > 1.50 per JESD95 (30 - Units)	15 / 0				

Notes:

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

Reliability Qualification Results:

Successful completion of Qualification