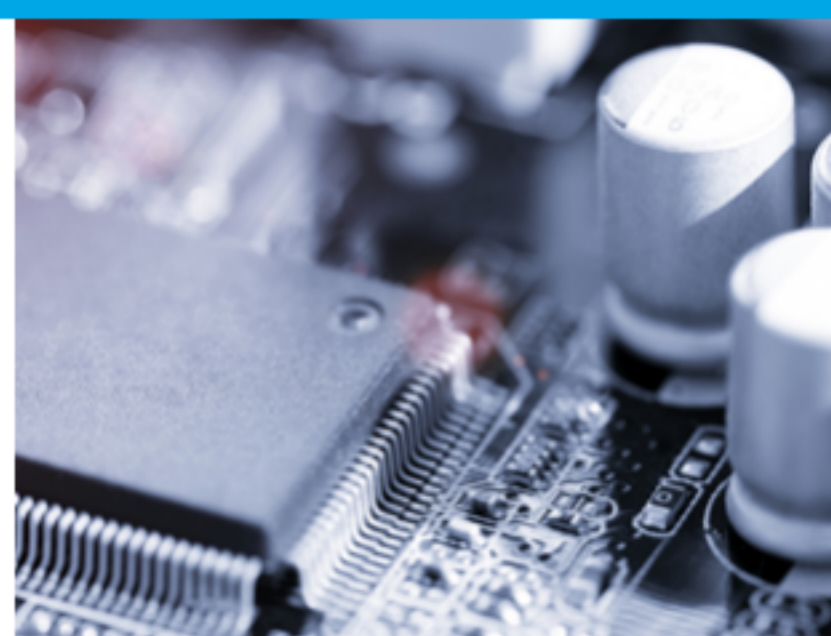




Final Product Change Notification

PCN number 2022080002

Issue Date:2022-08-23
Effective Date:2022-12-06



Dear *Customer*,
Here's your quality information concerning products our customers and partners purchased from WeEn.

Management Summary

Release the second source of leadframe and Clip for package SMB & SMC.

Release the Second Source of Leadframe and Clip (SMB & SMC)

Information Notification

Release the new supplier Juxiang of leadframe and Clip for package SMB & SMC. For the details, please refer to the report enclosed.

Why do we issue this Information Notification

The second source of leadframe and clip will help on eliminating the risk of material supply.

Identification of Affected Products

Both sources are qualified. The date code and lot no. can be found on the label.

Impact

Data Sheet Revision

No change.

Disposition of Old Products

No change in the product.

Production

no affect.

Additional information

Affected products and sales history information: see attached file of Product List.
See attached file of Self-qualification Report.

Remarks

Should you not be able to obtain these documents, please contact your WeEn sales representative or the e-mail address mentioned below under Contact and Support.

Contact and Support

For all Quality Notification content inquiries, please contact your local WeEn Sales Support team.
For specific questions on this notice or the products affected please contact our specialist directly.

Name:Shawn Lin
Position:Quality Manager
e-mail address:Shawn.xf.lin@ween-semi.com

At WeEn Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

You have received this email because you are a designated contact or subscribed to WeEn Quality Notifications. WeEn shall not be held liable if this Notification is not correctly distributed within your organization.

This message has been automatically distributed. Please do not reply.

WeEn Semiconductors
www.ween-semi.com

PCN: 2022080002

**Final Qualification Report:
SMB&SMC leadframe and clip second source
Qualification**



WeEn
WeEn Semiconductors

Final Qualification Report

SMB&SMC leadframe and clip second source Qualification



Table of Contents

1. Introduction.....	3
2. Affected Types.....	3
3. Purposed Material	3
4. Technology, Platform or Material Used.....	3
5. Appearance Comparison	3
6. Test Vehicles.....	4
7. Package Structure.....	4
8. Life Test Result.....	5
9. Conclusions.....	5
10. Document Revision Sheet.....	5

1. Introduction

The qualification is to qualify the second source of leadframe and clip for supply chain security:

- Second source of leadframe and clip -Juxiang for package SMB.
- Second source of clip-Juxiang for package SMC.

Remark: Juxiang is our existing qualified leadframe supplier.

2. Affected Types

Please see detailed product list.

Package	SalesItem	Part Number
SMB	934072061118	MURS360B
SMB	934072150118	MURS160B
SMC	934072194118	MUR320
SMC	934072195118	MUR440
SMC	934072034118	MUR560
SMC	934072149118	MUR860

3. Purposed Material

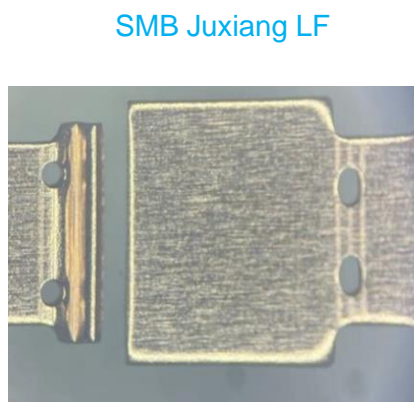
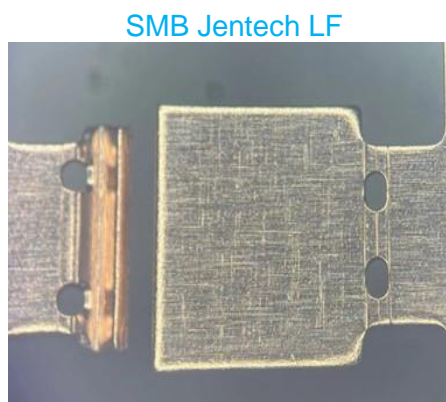
BOM as the below. Keep same material chemical content.

4. Technology, Platform or Material Used

Material	Existing supplier	Second source
SMB Leadframe	C19210/Jentech	C19210/Juxiang
SMB Clip	C19210/Jentech	C19210/Juxiang
SMC Clip	C19210/SDI	C19210/Juxiang

Remark: raw material C19210, no change.

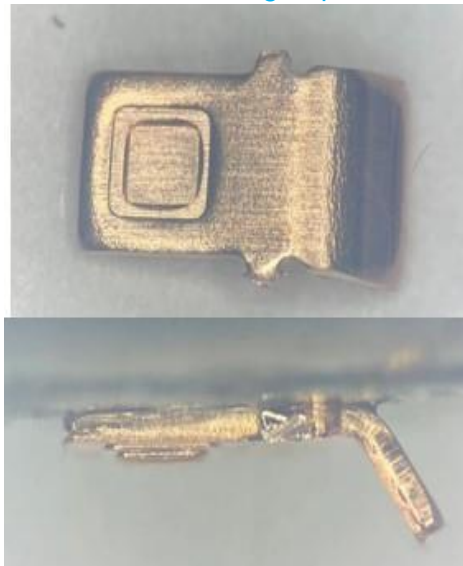
5. Appearance Comparison



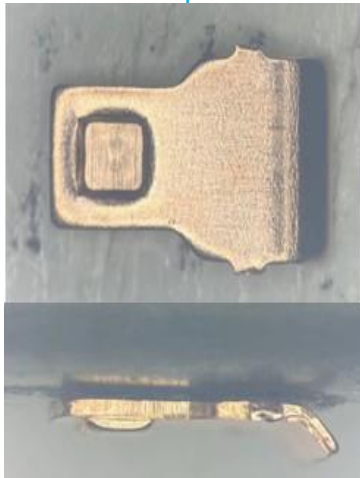
SMB Jentech Clip



SMB Juxiang Clip



SMC SDI Clip



SMC Juxiang Clip




Remark: The same drawing dimensions design.

6. *Test Vehicles*

2 devices MURS360B(SMB)&MUR560(SMC) were chosen for qualification vehicle.

7. *Package Structure*

POD in datasheet, no change.

PCN: 2022080002	Final Qualification Report: SMB&SMC leadframe and clip second source Qualification	 WeEn WeEn Semiconductors
-----------------	---	---

8. Life Test Result

Test items	Test condition	Sample size	Result
Temperature Cycle (TMCL)	1000 cycles at -65°C to 150°C.	2xMURS360B(SMB) 77units 2xMUR560(SMC) 77units	pass
Unbiased Highly Accelerated Stress Test (UHST)	96 hours at Ta = 130°C, RH = 85%	2xMURS360B(SMB) 77units 2xMUR560(SMC) 77units	pass
High Temperature, Humidity & Reverse Bias (THBS)	1000 hours at Tj = 85°C, RH = 85%, Reverse Bias = 80% rated voltage or 80V, whichever is lower.	2xMURS360B(SMB) 77units 2xMUR560(SMC) 77units	pass
	Test before, at 168, 500 hours & 1000 hours.	2xMURS360B(SMB) 77units 2xMUR560(SMC) 77units	pass
Thermal Fatigue (TFAT)	10000 cycles, Tj = 25°C to 125°C, DTj ≥ 80°C, Id=depends on device (derate to avoid thermal runaway)	2xMURS360B(SMB) 77units 2xMUR560(SMC) 77units	pass
	Test before, at 5K cycles & 10K cycles	2xMURS360B(SMB) 77units 2xMUR560(SMC) 77units	pass

9. Conclusions

Based on the above qualification data, Juxiang's SMB&SMC leadframe and clip meet the requirements in quality & reliability, which can be released for mass production.

10. Document Revision Sheet

R E V I S I O N S H E E T			
DATE	REV	DESCRIPTION	AUTHOR
2022/8/16	01	Initial release	Liang Zhao