



Product Change Notification - ASER-17GSOU325

Date:

01 Jun 2020

Product Category:

Clock and Timing - Oscillators; Others

Affected CPNs:**Notification subject:**

CCB 3960.001 and 3960.002 Initial Notice: Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (3.2 x 2.5 x 0.9 mm) and 4L VDFN (2.5 x 2.0 x 0.9 mm) packages at NSEB assembly site.

Notification text:**PCN Status:**

Initial notification.

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (3.2 x 2.5 x 0.9 mm) and 4L VDFN (2.5 x 2.0 x 0.9 mm) packages at NSEB assembly site.

Pre Change:

Assembled at NSEB using A194 lead frame material, NEX-130CT die 1 attach material, 8200T die 2 attach material, G770HCD molding compound and Q3-6646 die coat.

Post Change:

Assembled at NSEB using A194 lead frame material, HR-5104 die 1 attach material, 2200D die 2 attach material, G700LTD molding compound, and JCR6109 die coat.

Pre and Post Change Summary:

	Pre Change	Post Change
Assembly Site	UTAC Thai Limited LTD. (NSEB)	UTAC Thai Limited LTD. (NSEB)
Lead Frame Material	A194	A194
Bond Wire Material	Au	Au
Die 1 Attach Material	NEX-130CT	HR-5104
Die 2 Attach Material	8200T	2200D
Molding compound material	G770HCD	G700LTD
Die Coat	Q3-6646	JCR6109

Impacts to Data Sheet:

None.



Change Impact:

None.

Reason for Change:

To improve manufacturability by qualifying new die attach material, molding compound and die coat.

Change Implementation Status:

In Progress

Estimated Qualification Completion Date:

March 2020

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

	January 2020					-->	March 2020				
Workweek	1	2	3	4	5		10	11	12	13	14
Initial PCN Issue Date		X									
Qual Report Availability										X	
Final PCN Issue Date										X	

Method to Identify Change:

Traceability code.

Qualification Plan:

Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:

January 07, 2020: Issued initial notification.

January 17, 2020: Reissued initial notification to remove BQM information. The BQM will not be changing.

June 01, 2020: Reissued initial notification to update the qualification plan. This is a grade 2 qualification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachment(s):

[PCN_ASER-17GSOU325_Qual Plan.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.



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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: ASER-17GSOU325

Date:

September 24, 2019

Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (3.2 x 2.5 x 0.9 mm) and 4L VDFN (2.5 x 2.0 x 0.9 mm) packages at NSEB assembly site. This is a Q100 grade 2 qualification.

Purpose: _____ Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (3.2 x 2.5 x 0.9 mm) and 4L VDFN (2.5 x 2.0 x 0.9 mm) packages at NSEB assembly site. This is a Q100 grade 2 qualification.

CCB No: _____ 3960, 3960.001 & 3960.002

MP code: _____ 3610R9H6A003

Part No.: _____ D4BB-L3

BD No: _____ BDE-005830 Rev.02

Package:

Type: _____ 4L VDFN COL

Width or Size: _____ 5.0 x 3.2 x 0.9 mm

Leadframe:

Part Number: _____ FR0293

Paddle Size: _____ COL

Material: _____ A194

Pad Plating: _____ Roughen NiPdAu

Process: _____ Etched

Lead-lock (Y/N): _____ Yes

Lead Finish: _____ NiPdAu

LF Thickness: _____ 8 mils

Wire:

Material: _____ Au

Die Attach Epoxy:

Part Number: _____ HR-5104

Conductive: _____ No

Part Number: _____ 2200D

Conductive: _____ Yes

Mold Compound: _____ G700LTD

Die Coat: _____ JCR6109

Test Name	Conditions	Reliability Stress Read Point	Pre & Post Reliability Stress Test Temperature	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Special Instructions
Standard Pb-free Solderability	J-STD-002D ; Perform 8 hours of steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing. Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages.			22	5	1	27	>95% lead coverage	Standard Pb-free solderability is the requirement. SnPb solderability (backward solderability- SMD reflow soldering) is required for any plating related changes and highly recommended for other package BOM changes.
Wire Bond Pull - WBP	Mil. Std. 883-2011			5	0	1	5	0 fails after TC	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001			5	0	1	5	0	30 bonds from a min. 5 devices.
Physical Dimensions	Measure per JESD22 B100 and B108			10	0	3	30	0	
External Visual	Mil. Std. 883-2009/2010			All devices prior to submission for qualification testing	0	3	ALL	0	
HTSL (High Temp Storage Life)	JESD22-A103 +150°C	Grade 2: 1000 hrs (150°C)	Grade 2: +25°C & +105°C	45	5	1	50	0	Spares should be properly identified.

Test Name	Conditions	Reliability Stress Read Point	Pre & Post Reliability Stress Test Temperature	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Special Instructions
Preconditioning - Required for surface mount devices	J-STD-020JESD22-A113+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type. MSL 1@260°C		Grade 2: +25°C	231+ 45 (for devices requiring PTC)	15+ 5 (for devices requiring PTC)	3	738+ 50 (for devices requiring PTC)	0	Spares should be properly identified. 77 parts from each lot to be used for HAST, uHAST, Temp Cycle test. 45 parts from one lot to be used for PTC test (for devices requiring PTC).
HAST	JESD22-A101 or A110 +130°C/85% RH for 96 hrs	Grade 2: 96 hrs (+130°C/ 85% RH)	Grade 2: +25°C & +105°C	77	5	3	246	0	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	JESD22-A102, A118, or A101 +130°C/85% RH for 96 hrs	Grade 2: 96 hrs (+130°C/ 85% RH)	Grade 2: +25°C	77	5	3	246	0	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	JESD22-A104 -65°C to +150°C	Grade 2: 500 cycles (-65°C to 150°C)	Grade 2: +105°C	77	5	3	246	0	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

Affected Catalog Part Numbers(CPN)

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DSC1001CE2-064.0000
DSC1001CL3-008.0000
DSC1001CL1-012.0000
DSC1001CL2-022.5792
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