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[ASER-30EHFB658](#)

## Product Change Notification / ASER-30EHFB658

**PCN Status:**

Final notification.

**Description of Change:**

Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (5.0x3.2x0.9mm) package at NSEB assembly site.

**Pre Change:**

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

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

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

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

July 23, 2020 (date code: 2030)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

**Time Table Summary:**

Workweek	November 2019					June 2020					July 2020				
	44	45	46	47	48	23	24	25	26	27	28	29	30	31	
Initial PCN Issue Date			X												
Qual Report Availability									X						
Final PCN Issue Date									X						

**Date**

23-Jun-2020

**PCN Type**

Manufacturing Change

**PCN**

ASER-30EHFB658

**Title**

CCB 3960 Final Notice: Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (5.0x3.2x0.9mm) package at NSEB assembly site.

**Product Category**

Clock and Timing - Oscillators

**Affected CPNs**[ASER-30EHFB658 Affected CPN 06232020.pdf](#)[ASER-30EHFB658 Affected CPN 06232020.csv](#)**Attachments**[PCN ASER-30EHFB658 Qual](#)[Report.pdf](#)

Estimated Implementation Date																				X	
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**Method to Identify Change:**  
Traceability code

**Qualification Report:**  
Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Report.

**Revision History:**  
**November 15, 2019:** Issued initial notification.  
**June 23, 2020:** Issued final notification. Attached the Qualification Report. Revised the affected parts list. Provided estimated first ship date to be on July 23, 2020.

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

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

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**MICROCHIP**

**QUALIFICATION REPORT SUMMARY**  
**RELIABILITY LABORATORY**

**PCN#: ASER-30EHFB658**

**Date:**  
**June 04, 2020**

**Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (5.0x3.2x0.9mm) package at NSEB assembly site. This is a Q100 grade 2 qualification.**



## MICROCHIP PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of new bill of materials (BOM) for selected Micrel products available in 4L VDFN (5.0x3.2x0.9mm) package at NSEB assembly site. This is a Q100 grade 2 qualification.
<b>CN</b>	ES342243 / ES322636
<b>QUAL ID</b>	R2000293 Rev. A
<b>MP CODE</b>	3610R9H6A003
<b>Part No.</b>	D4BB-L3
<b>Bonding No.</b>	BDE-005830 Rev. 02
<b>CCCB No.</b>	3960
<b><u>Package</u></b>	
<b>Type</b>	4L VDFN
<b>Package size</b>	5.0x3.2x0.9 mm
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	COL
<b>Material</b>	A194
<b>Pad Plating</b>	Roughen NiPdAu
<b>Process</b>	Etched
<b>Lead Lock</b>	Yes
<b>Part Number</b>	FR0293
<b><u>Material</u></b>	
<b>Epoxy</b>	HR-5104 and 2200D
<b>Wire</b>	Au wire
<b>Mold Compound</b>	G700LTD
<b>Die Coat</b>	JCR6109
<b>Plating Composition</b>	NiPdAu



# MICROCHIP PACKAGE QUALIFICATION REPORT

## Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
NSEB203000616.000	GF35919404999.000	194355E
NSEB203100180.000	GF35919404999.000	194455Y
NSEB203100189.000	GF35919404999.000	194456D

## Result

Pass     Fail     \_\_\_\_\_

4L VDFN (5.0x3.2x0.9 mm) assembled by NSEB pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020E standard.

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
<u>Precondition</u> <u>Prior Perform</u> <u>Reliability Tests</u> (At MSL Level 1)	<b>Electrical Test: +25°C</b> System: Tester: D10, Handler: AET55V8/16	JESD22-A113	693 (0)	693		Good Devices
	Bake 150°C, 24 hrs System: Oven chamber	JIP/IPC/JEDEC J-STD-020E		693		
	85°C/85%RH Moisture Soak 168 hrs. System: Soak chamber			693		
	3x Convection-Reflow 265°C max System: Heat convection reflow			693		
	<b>Electrical Test: +25°C</b> System: Tester: D10, Handler: AET55V8/16			0/693	Pass	
<b>Temp Cycle</b>	<b>Stress Condition:</b> -65°C to +150°C, 500 Cycles System: Hot and cold chamber	JESD22-A104		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test: +105°C</b> System: Tester: D10, Handler: AET55V8/V16		231(0)	0/231	Pass	77 units / lot
	<b>Bond Strength:</b> Wire Pull (> 3.00 grams)		30 (0)	0/30	Pass	
<b>UNBIASED-HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: Hot and moisture chamber	JESD22-A118		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test: +25°C</b> System: Tester: D10, Handler: AET55V8/V16		231(0)	0/231	Pass	77 units / lot
<b>HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. <b>Bias Volt: 3.3</b> Volts System: HAST 6000X	JESD22-A110		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test: +25°C, 105°C</b> System: Tester: D10, Handler: AET55V8/16		231(0)	0/231	Pass	77 units / lot

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 150°C, 1008 hrs System: Oven chamber	JESD22-A103		45		45 units
	<b>Electrical Test:</b> +25°C +105°C System: Tester: D10, Handler: AET55V8/V16		45(0)	0/45	Pass	
<b>Solderability Temp 245°C</b>	<b>Steam Aging:</b> Temp 93°C,8Hrs <b>Solder Dipping:</b> Solder Temp.245°C Solder material:Pb Free Sn 95.5Ag3.9 Cu0.6  Visual Inspection: External Visual Inspection	J-STD-002	22 (0)	22  22  0/22	Pass	
<b>Physical Dimensions</b>	Physical Dimension, 10 units from 1 lot	JESD22-B100/B108	30(0) Units	0/30	Pass	
<b>Bond Strength</b>	Wire Pull (> 3.00 grams)	M2011	30 (0) Wires	0/30	Pass	
<b>Data Assembly</b>	Bond Shear (>13.00 grams)	JESD22-B116	30 (0) bonds	0/30	Pass	

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Affected Catalog Part Numbers(CPN)

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