



**Product Change Notification / MFOL-04PKQY369**

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**Date:**

14-Oct-2022

**Product Category:**

USB Transceivers

**PCN Type:**

Manufacturing Change

**Notification Subject:**

CCB 4630.002 Final Notice: Qualification of STA as an additional assembly site for USB3340-EZK, USB3340-EZK-TR, USB3370B-EZK and USB3370B-EZK-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

**Affected CPNs:**

[MFOL-04PKQY369\\_Affected\\_CPN\\_10142022.pdf](#)

[MFOL-04PKQY369\\_Affected\\_CPN\\_10142022.csv](#)

**Notification Text:**

**PCN Status:**Final Notification

**PCN Type:**Manufacturing Change

**Microchip Parts Affected:**Please open one of the files found in the Affected CPNs section.

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

**Description of Change:**Qualification of STA as an additional assembly site for USB3340-EZK, USB3340-EZK-TR, USB3370B-EZK and USB3370B-EZK-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

**Pre and Post Change Summary:**

	Pre Change	Post Change	
Assembly Site	ASE Inc. (ASE)	ASE Inc. (ASE)	STATS Chippac Ltd. (STA)
Wire Material	CuPd	CuPd	CuPdAu
Die Attach Material	EN-4900F	EN-4900F	8290
Molding Compound Material	G631B	G631B	G700E
Lead-Frame Material	C194	C194	C194
Lead-Frame Paddle Size	138X138 mils	138X138 mils	138X138 mils
DAP Surface Prep	Double Ring Plating	Double Ring Plating	Ring Plating
	See Pre and Post Change Summary for comparison.		

**Impacts to Data Sheet:**None

**Change Impact:**None

**Reason for Change:**To improve on-time delivery performance by qualifying STA as an additional assembly site.

**Change Implementation Status:**In Progress

**Estimated First Ship Date:**November 16, 2022 (date code: 2247)

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

**Time Table Summary:**

	October 2022					November 2022				
Workweek	4 0	4 1	4 2	4 3	4 4	4 5	4 6	4 7	4 8	4 9
Qual Report Availability		x								
Final PCN Issue Date		x								
Estimated Implementation Date								x		

**Method to Identify Change:**Traceability code

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

**Revision History:**

October 06, 2022: Issued final notification.

October 14, 2022: Re-issued final notification to remove the tray comparison drawing in pre and post change summary.

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

**Attachments:**

[PCN\\_MFOL-04PKQY369 Pre and Post Change Summary.pdf](#)

[PCN\\_MFOL-04PKQY369\\_Qual Report.pdf](#)

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 ID#: MFOL-04PKQY369**

**Date:  
November 2, 2021**

**Qualification of STA as an additional assembly site for selected LAN9303, LAN9210 and LAN9211 device families available in 56L VQFN (8x8x0.9mm) package. The selected USB3340-EZK, USB3340-EZK-TR, USB3370B-EZK and USB3370B-EZK-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package will qualify by similarity (QBS).**



## MICROCHIP PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of STA as an additional assembly site for selected LAN9303, LAN9210 and LAN9211 device families available in 56L VQFN (8x8x0.9mm) package. The selected USB3340-EZK, USB3340-EZK-TR, USB3370B-EZK and USB3370B-EZK-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package will qualify by similarity (QBS).
<b>CCB</b>	4630.002 and 4630
<b>CN</b>	ES361355
<b>QUAL ID</b>	R2100817 REV. A
<b>MP CODE</b>	TA3017RTXB0C
<b>Part No.</b>	LAN9303I-ABZJ
<b>Bonding No.</b>	BDM-002969 Rev. A
<b><u>Package</u></b>	
<b>Type</b>	56L VQFN
<b>Package size</b>	8 x 8 x 0.9 mm
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	236 x 236 mils
<b>Material</b>	C194
<b>Surface</b>	Double Ring
<b>Process</b>	Etched
<b>Lead Lock</b>	No
<b>Part Number</b>	R002-3646X
<b><u>Material</u></b>	
<b>Epoxy</b>	8290
<b>Wire</b>	CuPdAu wire
<b>Mold Compound</b>	G700E
<b>Plating Composition</b>	Matte Sn



## MICROCHIP PACKAGE QUALIFICATION REPORT

### Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
STA-221300006.000	TC11922050505.100	2125YMV
STA-221300008.000	TC11922050505.100	2125YPR
STA-221300007.000	TC11922050505.100	2125YPH

### Result

Pass     Fail   

56L VQFN (8x8x0.9 mm) assembled by STA pass reliability test per QCI-39000.  
This package was qualified the Moisture/Reflow Sensitivity Classification Level 3 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
<b>Precondition</b> <b>Prior Perform</b> <b>Reliability Tests</b> <b>(At MSL Level 3)</b>	<b>Electrical Test:</b> +25°C and 100°C System: EX_ANALOG  Bake 150°C, 24 hrs System: CHINEE  30°C/60%RH Moisture Soak 192 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max  System: Vitronics Soltec MR1243  <b>Electrical Test:</b> +25°C and 100°C System: EX_ANALOG	JESD22- A113  JIP/ IPC/JEDEC J-STD-020E	693(0)	693  693  693  0/693	Pass	Good Devices

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks	
<b>Temp Cycle</b>	<b>Stress Condition:</b> -65°C to +150°C, 500 Cycles System: TABAI ESPEC TSA-70H <b>Electrical Test:</b> +100°C System: EX_ANALOG	JESD22- A104	231(0)	231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot	
	<b>Stress Condition:</b> -65°C to +150°C, 1000 Cycles System: TABAI ESPEC TSA-70H <b>Electrical Test:</b> +100°C System: EX_ANALOG			0/231			231
	<b>Bond Strength:</b> Wire Pull (> 2.50 grams) Bond Shear (>12.60 grams)			0/231			231(0)
				0/15			15 (0)
<b>UNBIASED- HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: HAST 6000X <b>Electrical Test:</b> +25°C System: EX_ANALOG	JESD22- A118	231(0)	231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot	
	<b>Stress Condition:</b> +130°C/85%RH, 192 hrs. System: HAST 6000X <b>Electrical Test:</b> +25°C System: EX_ANALOG			0/231			231
				0/231			231(0)
				0/231			231(0)



# 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 175°C, 504 hrs System: SHEL LAB	JESD22-A103		45		45 units
	<b>Electrical Test:</b> +25°C and 100°C System: EX_ANALOG		45(0)	0/45	Pass	
<b>Solderability Temp 245°C</b>	<b>Steam Aging:</b> Temp 93°C,8Hrs System: SAS-3000 Solder Dipping:Solder Temp.245°C Solder material:Pb Free Sn 95.5Ag3.9 Cu0.6 System: ERSA RA 2200D 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 Data Assembly</b>	Wire Pull (> 3.00 grams)	Mil. Std. 883-2011	30 (0) Wires	0/30	Pass	
	Bond Shear (> 8.00 grams)	CDF-AEC-Q100-001	30 (0) bonds	0/30	Pass	

**CCB 4630.002**  
**Pre and Post Change Summary**  
**PCN# MFOL-04PKQY369**



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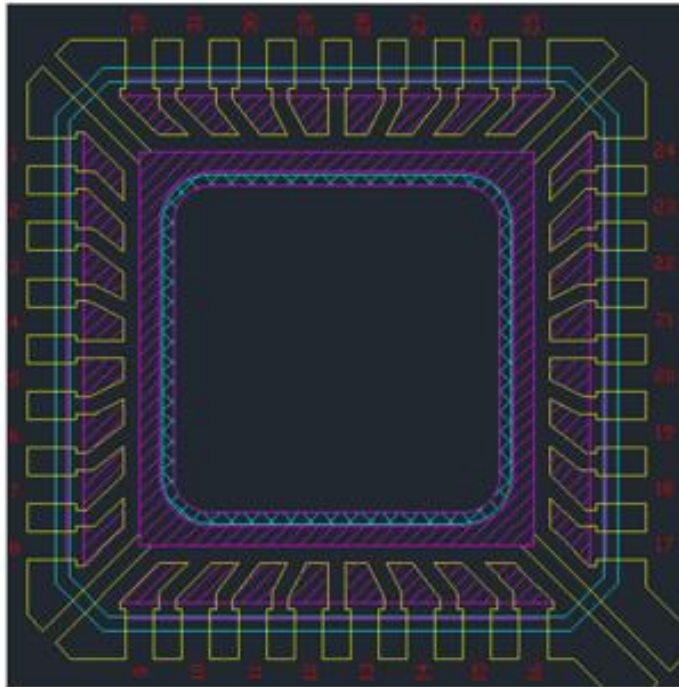
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SMART | CONNECTED | SECURE

# Lead Frame Comparison

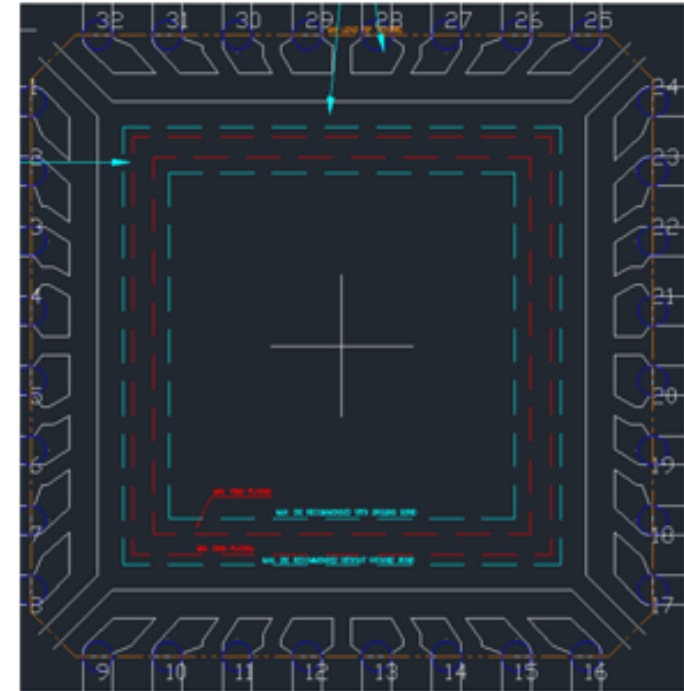
ASE



Lead frame  
material

C194

STA



Lead frame  
material

C194

MFOL-04PKQY369 - CCB 4€ USB3340-E USB3370B-EZK and USB3370B-EZK-TR catalog part numbers (CPN) a

Affected Catalog Part Numbers(CPN)

USB3340-EZK

USB3340-EZK-TR

USB3370B-EZK

USB3370B-EZK-TR