



## Product Change Notification - RMES-11XZBK215

---

**Date:**

04 Mar 2020

**Product Category:**

Memory

**Affected CPNs:****Notification subject:**

CCB 4104 Final Notice: Qualification of MTAI as a new assembly site for selected products available in 8L SOIJ (.208 in) package.

**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 above to see all listed items.

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

**Description of Change:**

Qualification of MTAI as a new assembly site for selected products available in 8L SOIJ (.208 in) package.

**Pre-Change:**

Assembled at LPI assembly site using 8290 die attached material.

**Post Change:**

Assembled at MTAI assembly site using 8006NS die attached material.

**Pre and Post Change Summary:**

	Pre-Change	Post Change
<b>Assembly Site</b>	Lingsen Precision Industries, Taiwan. (LPI)	Microchip Technology Thailand (HQ) / MTAI
<b>Wire material</b>	Au	Au
<b>Lead frame material</b>	C194	C194
<b>Die attach material</b>	8290	8006NS
<b>Molding compound material</b>	G600	G600

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

To improve productivity by qualifying MTAI as a new assembly site.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

March 15, 2020 (date code: 2012)

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



post change parts.

**Time Table Summary:**

	February 2020					March 2020				
Workweek	05	06	07	08	09	10	11	12	13	14
Initial PCN Issue Date				X						
Final PCN Issue Date						X				
Qual Plan Availability						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:**

**February 17, 2020:** Issued initial notification.

**March 4, 2020:** Issued final notification. Attached the qualification report. Provided the estimated first ship date to be on March 15, 2020.

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\\_RMES-11XZBK215\\_Qual\\_Report.pdf](#)

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

**Terms and Conditions:**

If you wish to [receive Microchip PCNs via email](#) please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

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 REPORT SUMMARY**  
RELIABILITY LABORATORY

**PCN #: RMES-11XZBK215**

**Date**  
**February 26, 2020**

**Qualification of MTAI as a new assembly site for selected  
products available in 8L SOIJ (.208 in) package.**



## MICROCHIP PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of MTAI as a new assembly site for selected products available in 8L SOIJ (.208 in) package.
<b>CN</b>	ES334343
<b>QUAL ID</b>	Q20007 rev. A
<b>MP CODE</b>	T000174BXD50
<b>Part No.</b>	SST25VF016B-50-4I-S2AF
<b>Bonding No.</b>	BDM-002319 Rev. A
<b>CCB No.</b>	4104

### Package

<b>Type</b>	8L SOIJ
<b>Package size</b>	208 mils

### Lead Frame

<b>Paddle size</b>	140 x 160 mils
<b>Material</b>	CDA194
<b>Surface</b>	NiPdAu
<b>Process</b>	Stamped
<b>Lead Lock</b>	No
<b>Part Number</b>	10100837
<b>Treatment</b>	Roughened

### Material

<b>Epoxy</b>	8006NS
<b>Wire</b>	Au wire
<b>Mold Compound</b>	G600V
<b>Plating Composition</b>	Matte Tin



# MICROCHIP PACKAGE QUALIFICATION REPORT

## Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MTAI203602842.000	GC01920284888.100	19496Y0
MTAI203700453.000	GC01920284888.100	19507Q0
MTAI203700454.000	GC01920284888.100	19507Q1

### Result

Pass     Fail     \_\_\_\_\_

8L SOIJ assembled by MTAI 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
<u>Precondition</u> <u>Prior Perform</u> <u>Reliability Tests</u> (At MSL Level 3)	<p><b>Electrical Test</b> :+25°C,95°C and -40°C System: NEXTEST_PT2</p> <p>Bake 150°C, 24 hrs System: CHINEE</p> <p>30°C/60%RH Moisture Soak 192 hrs. System: TABAI ESPEC Model PR-3SPH</p> <p>3x Convection-Reflow 265°C max</p> <p>System: Vitronics Soltec MR1243</p> <p><b>Electrical Test</b> :+25°C and 95°C System: NEXTEST_PT2</p>	<p>JESD22- A113</p> <p>JIP/ IPC/JEDE C J-STD- 020E</p>	<p>693(0)</p>	<p>693</p> <p>693</p> <p>693</p> <p>693</p> <p>0/693</p>	<p>Pass</p>	<p>Good Devices</p>

# 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	JESD22- A104		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test</b> :+95°C System: NEXTEST_PT2		231(0)	0/231	Pass	77 units / lot
	<b>Bond Strength:</b> Wire Pull (> 2.5 grams)		15 (0)	0/15	Pass	
	Bond Shear (>15.00 grams)		15 (0)	0/15	Pass	
<b>UNBIASED-HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test</b> :+25°C System: NEXTEST_PT2		231(0)	0/231	Pass	77 units / lot
<b>HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. <b>Bias Volt:</b> 3.6 Volts System: HAST 6000X	JESD22- A110		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test</b> :+25°C and 95°C System: NEXTEST_PT2		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 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		45 units
	<b>Electrical Test</b> :+25°C and 95°C System: NEXTEST_PT2		45(0)	0/45	Pass	
<b>Bond Strength Data Assembly</b>	Wire Pull (> 2.5 grams)	M2011	30 (0) Wires	0/30	Pass	
	Bond Shear (>15.00 grams)	JESD22- B116	30 (0) bonds	0/30	Pass	



RMES-11XZBK215 - CCB 4104 Final Notice: Qualification of MTAI as a new assembly site for selected prc

Affected Catalog Part Numbers(CPN)

SST25VF016B-50-4C-S2AF-DCQ  
SST25VF016B-50-4C-S2AF  
SST25VF016B-50-4C-S2AF-PP018  
SST25VF016B-50-4C-S2AF-PP022  
SST25VF016B-50-4C-S2AF-PP013  
SST25VF016B-50-4I-S2AF  
SST25VF016B-50-4I-S2AF-PP022  
SST25VF016B-50-4I-S2AF-DCA  
SST25VF016B-50-4I-S2AF-GYR  
SST25VF016B-50-4C-S2AF-DCQ-T  
SST25VF016B-50-4C-S2AF-T  
SST25VF016B-50-4C-S2AF-PP013-T  
SST25VF016B-50-4I-S2AF-T  
SST25VF016B-50-4I-S2AF-DCA-T  
SST25VF016B-50-4I-S2AF-GYR-T