



## Product Change Notification - CSI0500065 - JAON-08AHID607

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**Date:**

08 Apr 2019

**Product Category:**

Switching Regulators

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

CCB 1737.10 Final Notice: Release to production of listed Micrel Regulator product type manufactured with the CSI05 process technology to Microchip Fab.

**Notification text:****PCN Status:**

Final Notification

Note: This final PCN only pertains to the products listed in this PCN. Additional final PCNs may be issued for this combination of product type and process technology.

**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:**

Release to production of listed Micrel Regulator product type manufactured with the CSI05 process technology to Microchip Fab.

NOTE: Please review the FAQ linked [here](#) for additional information about this change.

**Pre Change:**

Fabricated at Micrel fabrication site (San Jose, CA, USA) using 6 inch wafers.

**Post Change:**

Fabricated at Microchip fabrication site using 8 inch wafers.

**Pre and Post Change Summary:**

	Pre Change	Post Change
Fab Site	Micrel fabrication site (San Jose, CA, USA)	Microchip fabrication site
Wafer Size	6 inch wafers	8 inch wafers

**Impacts to Data Sheet:**

None

**Reason for Change:**

To improve productivity with the closure of the Micrel fab as part of the integration of Micrel and Microchip.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

Estimated First Ship Date (EFSD) are identified for each catalog part numbers (CPN) listed in the attached parts list. This can be found in the attachments field below labeled as PCN\_#\_Affected\_CPN.



**Summary Time Table of notable events to date:**

	September 2015					->	September 2016					->	April 2019					->	May 2019				
Workweek	36	37	38	39	40		35	36	37	38	39		14	15	16	17	18		18	19	20	21	22
Initial PCN Issue Date  <a href="#">CYER-31JLEX869</a>	X																						
Qual Report Available  <a href="#">JAON-08AHID607</a>										X													
Final PCN Issue Date  JAON-08AHID607-CSI0500065														X									
Estimated First Ship Date																						As listed in the attached parts list	

**Markings to Distinguish Revised from Unrevised Devices:**

Traceability code and shipping label see [FAQ](#).

**Revision History:**

**September 1, 2015:** Issued initial notification as PCN number [CYER-31JLEX869](#).

**September 25, 2016:** Issued intermediate notification as PCN number [JAON-08AHID607](#). Attached the Qualification Report. Revised the estimated first ship date (EFSD) to inform that the EFSD will be revealed in the final PCN.

**April 08, 2019:** Issued final notification as PCN number JAON-08AHID607-CSI0500065 for listed Micrel Regulator product manufactured with the CSI05 process technology. Provided estimated first ship date (EFSD) for each CPN listed in the attached parts list.

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

**Attachment(s):**

[PCN JAON-08AHID607-CSI0500065 Affected CPN.pdf](#)

[PCN JAON-08AHID607-CSI0500065 Qual Report.pdf](#)

[PCN JAON-08AHID607-CSI0500065 Affected CPN.xls](#)

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.

Affected Catalog Part Numbers (CPN)

MIC2207YML-TR

JAON-08AHID607-CSI0500065 - CCB 1737.10 Final Notice: Release to production of listed Micrel Regulator product type manufactured with the CSI05 process technology to Microchip Fab.

Affected Catalog Part Numbers (CPN)

<b>PCN_JAON-08AHID607-CSI0500065</b>	
<b>CATALOG_PART_NBR</b>	<b>Estimated First Ship Date (EFSD)</b>
MIC2207YML-TR	May 16, 2019



**QUALIFICATION REPORT SUMMARY**  
RELIABILITY LABORATORY

**PCN #: JAON-08AHID607-CSI0500065**

**Date**  
**September 20, 2016**

**Qualification of Microchip 8 inch Fabrication site for Micrel products  
manufactured with the CSI05 Process Technology.**

PART NUMBER	PACKAGE TYPE	ASSEMBLY LOCATION	FAB LOCATION	PROCESS NAME
MIC23250-S4YMT-TR	DFN22-10L	UNISEM, IPOH, MALAYSIA	MICROCHIP FAB-2 TEMPE AZ.	CSI 0.5

### DIE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	168 HR Rej/ss	500 HR Rej/ss	1000 HR Rej/ss	COMMENTS
<b>HTOL</b> High Temperature Operating Life Test	JESD22, Method 108	1609	V216328088.100MQB	0/77	0/77	0/77	
	Ta = + 125°C	1606	V216328088.000MQJ	0/77	0/77	0/77	
	Vcc = +5.5V	1606	V216328088.000MQK	0/77	0/77	0/77	

### ELECTROSTATIC DISCHARGE

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
<b>ESD-HBM</b> Human Body Model ATE Test @ Room +25C	R= 1500 Ohms C= 100 pF 1X +/- Voltage	1609	V216328088.100MQB	+/-2000V	0/3	Note: ESD ratings are device specific. All Products qualified on the 8" Micrel process technologies will have the same or better ESD and Latch-up performance as the 6" San Jose Products.
<b>ESD-CDM</b> Charged Device Model ATE Test @ Room +25C	JESD22-C101 1X +/- Voltage	1609	V216328088.100MQB	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
<b>LATCH-UP</b>	JESD-78 TA = +25°C	1609	V216328088.100MQB	I/O LU O/V LU	0/6 0/6	

## PACKAGE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	Rej/ss	COMMENTS
Level 1 Pre-conditioning Flow	JESD22-A113	1609	V216328088.100MQB	0/323	
		1606	V216328088.000MQJ	0/143	
		1606	V216328088.000MQK	0/143	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
PRESSURE POT With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A102  Ta = +121°C/100%RH  15 PSIG	1609	V216328088.100MQB	0/45	
		1606	V216328088.000MQJ	0/45	
		1606	V216328088.000MQK	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
HAST With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A110 (BIASED)  Ta= +130°C/85%RH  Vcc = +5.5V	1609	V216328088.100MQB	0/45	
		1606	V216328088.000MQJ	0/45	
		1606	V216328088.000MQK	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 CY Rej/ss	COMMENTS
TEMP CYCLE With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A104  Ta = -65°C / +150°C	1609	V216328088.100MQB	0/45	
		1606	V216328088.000MQJ	0/45	
		1606	V216328088.000MQK	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	1000 HR Rej/ss	COMMENTS
HTSL High Temperature Storage Life With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A103  Ta = +150°C	1609	V216328088.100MQB	0/76	
FLAMMABILITY	UL-94V-0  Certified	All mold compounds used by Micrel meet this standard. See the UL website on-line list of material flammability certifications. Micrel requires a Certificate of Compliance from the assembly house and we verify the certifications on the web.			