

# Product Change Notification - IIRA-27PCMO404

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**Date:** 20 Apr 2015

**Product Category:** Touch Sensing Technologies; SMSC; Analog (Thermal, Power Management & Safety)

**Notification subject:** CCB 1364.09 Final Notice: Qualification of SCC site for SMSC products available in the 72L, 56L, 48L, 36L, 32L, 24L VQFN, 64L, 48L, 24L, 20L, 16L, 12L, 10L QFN, 8L TDFN, 10L UQFN and 10L VDFN package

**Notification text:** **PCN Status:**  
Final notification

## **Microchip Parts Affected:**

See attachments of affected catalog part numbers (CPN) labeled as...

PCN\_IIRA-27PCMO404\_Affected\_CPN.xls

PCN\_IIRA-27PCMO404\_Affected\_CPN.pdf

## **Description of Change:**

Qualification of SCC assembly site for SMSC product line available in the 72L, 56L, 48L, 36L, 32L, 24L VQFN, 64L, 48L, 24L, 20L, 16L, 12L, 10L QFN, 8L TDFN, 10L UQFN and 10L VDFN packages.

## **Pre Change:**

Assembled at SCM assembly site.

## **Post Change:**

Assembled at SCC assembly site.

## **Impacts to Data Sheet:**

None

**Reason for Change:**

To improve productivity by qualifying SCC assembly site.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

May 10, 2015 (date code: 1518)

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

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

Traceability code

**Revision History:**

**March 19, 2014:** Issued initial notification.

**April 21, 2015:** Issued final notification. Attached the qualification report. Revised the estimated first ship date from November 30, 2014 to May 10, 2015. Updated the subject and description to include 72L VQFN, 12L QFN, 10L UQFN, 8L TDFN and 10L VDFN packages to the scope.

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\\_IIRA-27PCMO404\\_Qual\\_Report.pdf](#) [PCN\\_IIRA-27PCMO404\\_Affected CPN.pdf](#) [PCN\\_IIRA-27PCMO404\\_Affected CPN.xls](#)

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**MICROCHIP**

**QUALIFICATION REPORT**  
RELIABILITY LABORATORY

**PCN #: IIRA-27PCMO404**

**Date:**  
**January 29, 2015**

**Qualification of SCC assembly site for SMSC product line available in the 56L VQFN package. The 72L, 48L, 36L, 32L, 24L VQFN, 64L, 48L, 24L, 20L, 16L, 12L, 10L QFN, 8L TDFN, 10L UQFN and 10L VDFN packages will qualify by similarity at SCC assembly site.**

**Distribution:      CORPORATE QA/RE  
CORPORATE PACKAGING  
SUPPLIER ENGINEERING**

## OBJECTIVE

Qualification of SCC assembly site for SMSC product line available in the 56L VQFN package. The 72L, 48L, 36L, 32L, 24L VQFN, 64L, 48L, 24L, 20L, 16L, 12L, 10L QFN, 8L TDFN, 10L UQFN and 10L VDFN packages will qualify by similarity at SCC assembly site.

QUAL ID	QAR2014-026
BD #	A-046138B
PART #	XA2011RTXA0C (9730QFNE3CTSD)
CCB #	1364.13

## PRODUCT INFORMATION

PACKAGE TYPE	56L VQFN (8X8X0.85mm)
PACKAGE PIN PITCH	0.5mm
PACKAGE CODE	RT
DIE SIZE	2.442x2.347mm or 96x92mils
PAD OPENING	43um x 80um
INLINE PAD PITCH	50um
WAFER DIAMETER	12 inches
WAFER THICKNESS	10 mils
WAFER LOT NO	PKN635.00
FOUNDRY	TSMC (TSD - FAB 14)
WAFER MASK#	XA201 (136023A0)
CUP	YES
PART#	XA2011RTXA0C (9730QFNE3CTSD)
PROCESS	0.13um

## Material used in the Assembly:

LEAD FRAME MANUFACTURER:	LGI
LEAD FRAME MATERIAL	Cu (C194 H-Roughened-ETCH)
LEADFRAME PLATING TYPE	AG RING
LEADFRAME STRIP SIZE	250x70 mm
LEADFRAME CONFIGARATION	UP
PAD EXPOSED AREA	5.9X5.9mm
PAD SIZE	6.1 X 6.1mm
UNITS PER L/F STRIP	18x6=108
LEADFRAME DRAWING:	039481E
DIE ATTACH EPOXY TYPE	ABLESTIK - 8290
WIRE MANUFACTURER	Cu - Tanaka CLR-1A
WIRE TYPE	CuPdAu
MOLDING COMPOUND TYPE	EME-G700E
LEAD FINISHING COMPOSITION	Matte Tin
MARKING	LASER



# MICROCHIP

## PACKAGE QUALIFICATION REPORT

### Manufacturing Information

Assembly Lot No.	Wafer Lot No.	MARKING /Date Code
SCC-142000002.000	PKN635.00	LAN9730-ABZJ / A1420-AP23 / 8DKN635 / SCC-CN

### Result

Pass     Fail     \_\_\_\_\_

56L Punch VQFN (8x8x0.85mm) Package assembled by SCC 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-020D standard.

Prepared By: Peter Boudouris Date: January 29, 2015 (Corporate Reliability & FA)

Approved By: Vassilios Danginis Date: January 29, 2015 (Corporate Reliability & FA)

## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
<b>Moisture/Reflow Sensitivity Classification Test (At MSL Level 3)</b>	30°C/ 60%RH  Moisture Soak 192 hrs.  ( IPC/JEDEC J-STD-020D)	IPC/  JEDEC  J-STD- 020D	320	0/320	Pass	LOT 1

<b><u>Precondition Prior Perform Reliability Tests (At MSL Level 3)</u></b>	Electrical Test :+25°C and +85°C  SAT  Bake 125°C, 24 hrs  30°C/60%RH Moisture Soak 192hrs  3x Convection-Reflow 265°C max  SAT  Electrical Test :+25°C and +85°C	JESD22- A113	320 (0)  Lot 1	320  320  320  320  320  320	PASS	Good Devices
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# 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, 1000, 2000 Cycles	JESD22-A104	77 (0)	77 0/77	Pass	Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 25°C, + 85°C					77 units / lot
<b>THT</b>	<b>Stress Condition:</b> +85°C/85%RH, 1000hrs, 2000hrs	JESD22-A101	77 (0)	77 0/77	Pass	Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 25°C, + 85°C					77 units / lot
<b>BHAST</b>	<b>Stress Condition:</b> +130°C/85%RH, (3.6V) 96hrs, 192hrs.	JESD22-A110	77 (0)	77 0/77	Pass	Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 25°C, + 85°C					77 units / lot
<b>uHAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96hrs, 192hrs.	JESD22-A110	77 (0)	77 0/77	Pass	Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 25°C, + 85°C					77 units / lot
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake +150°C, 1000hrs, 2000hrs	JESD22-A103	77 (0)	77 0/77	Pass	No Pre-Condition
	<b>Electrical Test :</b> + 25°C, + 85°C					77 units / lot

PCN_IIRA-27PCMO404
CATALOG_PART_NBR
CAP1006-1-AIA-TR
CAP1014-1-EZK
CAP1014-1-EZK-TR
CAP1028-1-BP-TR
CAP1066-1-BP-TR
CAP1088-1-CP-TR
CAP1105-1-AIA-TR
CAP1106-1-AIA-TR
CAP1114-1-EZK-TR
CAP1128-1-BP-TR
CAP1133-1-AIA-TR
CAP1166-1-BP-TR
CAP1166-1-BP-TR-DCC
CAP1188-1-CP
CAP1188-1-CP-TR
CAP1203-1-AC3
CAP1203-1-AC3-TR
CAP1203-2-AC3-TR
CAP1206-1-AIA
CAP1206-1-AIA-TR
CAP1206-2-AIA-TR
CAP1208-1-A4
CAP1208-1-A4-TR
CAP1208-2-A4-TR
CAP1214-1-EZK-TR
CAP1293-1-AC3
CAP1293-1-AC3-TR
CAP1293-2-AC3-TR
CAP1296-1-AIA
CAP1296-1-AIA-TR
CAP1296-2-AIA-TR
CAP1298-1-A4
CAP1298-1-A4-TR
CAP1298-2-A4-TR
CAP9014-1-EZK-TR
CAP9114-1-EZK-TR
ECE1105-HZH
ECE1105I-HZH
ECE1117-HZH
ECE1117-HZH-TR
EMC1182-1-AC3-TR
EMC1182-A-AC3-TR
EMC1183-A-AIA-TR
EMC1184-A-AIA-TR
EMC1186-1-AC3-TR



EMC1186-2-AC3-TR
EMC1187-1-AIA-TR
EMC1188-1-AIA-TR
EMC1403-1-AIA-TR
EMC1403-2-AIA-TR
EMC1412-1-AC3-TR
EMC1412-A-AC3-TR
EMC1413-A-AIA-TR
EMC1414-A-AIA-TR
EMC1428-1-AP-TR
EMC1428-6-AP-TR
EMC1428-7-AP-TR
EMC1428-7-AP-TR-CB7
EMC1438-1-AP-TR
EMC1438-2-AP-TR
EMC1442-A-AC3-TR
EMC1444-A-AIA-TR
EMC1462-A-AC3-TR
EMC1464-A-AIA-TR
EMC1501-1-AC3-TR
EMC1704-2-AP-TR
EMC2103-1-KP-TR
EMC2103-2-AP-TR
EMC2103-4-AP-TR
EMC2104-BP-TR
EMC2105-BP-TR
EMC2112-BP-TR
EMC2113-1-AP-TR
EMC2700P-ABZJ
EMC2710P-ABZS
EMC4001-HZH
EMC4001-HZH-TR
EMC4002-HZH
EMC4002-HZH-TR
EMC4021-1-EZK-TR
EMC4022-1-EZK-TR
EMC6W201-AEZG
EMC6W201-AEZG-TR
LAN7500-ABZJ
LAN7500-ABZJ-TR
LAN7500I-ABZJ
LAN7500I-ABZJ-TR
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LAN8700C-AEZG-TR
LAN8700C-AEZG-TR-A00
LAN8700C-AEZG-TR-AR1

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LAN8720AI-CP-ABC
LAN8720AI-CP-TR
LAN8720AI-CP-TR-ABC
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LAN8742A-CZ-TR
LAN8742AI-CZ
LAN8742AI-CZ-TR
LAN8742-CZ
LAN8742-CZ-TR
LAN8742I-CZ
LAN8742I-CZ-TR
LAN8820-ABZJ
LAN8820-ABZJ-TR
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LAN9211-ABZJ
LAN9220-ABZJ
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LAN9303I-ABZJ-TR
LAN9303M-AKZE
LAN9303M-AKZE-CAG
LAN9303MI-AKZE
LAN9500A-ABZJ
LAN9500A-ABZJ-TR
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LAX9010-EZK-TR
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PAC1720-1-AIA-TR
PAC1921-1-AIA-TR
SEC1100-A5-02
SEC1100-A5-02H1
SEC1100-A5-02NC-TR
SEC1100-A5-02S2
SEC1100-A5-02-TR
SEC1110-1100A5
SEC1110-A5-02
SEC1110-A5-02A1
SEC1110-A5-02A1-TR
SEC1110-A5-02G1
SEC1110-A5-02G1-TR
SEC1110-A5-02NC
SEC1110-A5-02NC-TR
SEC1110-A5-02-TR
SEC1110I-A5-02
SEC1110I-A5-02G1
SEC1110I-A5-02G1-TR
SEC1110I-A5-02-TR
SEC1200-CN-02
SEC1200-CN-02NC
SEC1200-CN-02NC-TR
SEC1200-CN-02-TR
SEC1210-A5-02G1
SEC1210-A5-02G1-TR
SEC1210-CN-02
SEC1210-CN-02NC

SEC1210-CN-02NC-TR
SEC1210-CN-02-TR
SEC1210I-A5-02G1
SEC1210I-A5-02G1-TR
SEC1210I-CN-02
SEC1210I-CN-02-TR
USB2422/MJ
USB2422-I/MJ
USB2422T/MJ
USB2422T-I/MJ
USB2502-AEZG
USB2502-AEZG-TR
USB2503A-HZH
USB2503-HZH
USB2512-AEZG
USB2512B-AEZG
USB2512B-AEZG-BYC
USB2512B-AEZG-TR
USB2512BI-AEZG
USB2512BI-AEZG-TR
USB2513-AEZG
USB2513B-AEYC
USB2513B-AEYC-TR
USB2513B-AEZG
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USB2513BI-AEZG-TR
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USB2514B-AEZG
USB2514B-AEZG-TR
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USB2514I-AEZG-TR
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USB2524-ABZJ
USB2640-HZH-02
USB2640I-HZH-02
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USB2640I-HZH-02-TR-ABR
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USB2641I-HZH-02-CAG
USB2649-HZH
USB3280-AEZG
USB3280-AEZG-TR
USB3300-EZK
USB3300-EZK-CAG
USB3300-EZK-TR
USB3300-EZK-TR-CAR
USB3310C-CP
USB3310C-CP-TR
USB3311C-CP-TR
USB3311-CP-TR
USB3315C-CP-TR
USB3315C-CP-TR-ERC
USB3315-CP-TR
USB3316B-CP-TR
USB3316C-CP-TR
USB3316C-CP-TR-CAG
USB3317C-CP-TR
USB3318C-CP-TR
USB3318-CP
USB3318-CP-TR
USB3319C-CP-TR
USB3319C-CP-TR-CAG
USB3319-CP-TR
USB3320C-EZK
USB3320C-EZK-ECR
USB3320C-EZK-TR
USB3340-EZK
USB3340-EZK-TR
USB3341-CP
USB3341-CP-TR
USB3343-CP
USB3343-CP-TR
USB3346-CP-TR
USB3347-CP
USB3347-CP-TR
USB3370B-EZK-TR
USB3740B-AI2-TR
USB3740B-AI9-TR
USB3740T-I/ML-V01
USB3750A-1-A4-TR
USB3751A-1-A4-TR
USB3751A-2-A4-TR
USB4604-1070HN
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USB4624I-1080HN
USB4624I-1080HN-TR
USX1011-A5-02
USX1012-CN-02
USX2030C-CP-TR
USX2061-AEZG
USX2062-AEZG
USX2062-AEZG-TR
USX2064-AEZG-TR