



Date: 30 Nov 2011

Product Category: Memory; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; Radio Frequency Devices; 8-bit Microcontrollers

Device Family:  

Notification subject: CCB 1091 Final Notice: Qualification of 8L SOIC with SG-8300GM mold compound at ALPH (MMT) assebly

Notification text:

PCN Status:
Final notification

Microchip Parts Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-16XYMU298_Affected_CPN.xls
PCN_CYER-16XYMU298_Affected_CPN.pdf

Description of Change:
Qualification of 8L SOIC with SG-8300GM mold compound at ALPH (MMT) assembly site.

Pre Change:
G600V Mold Compound

Post Change:
SG-8300GM Mold Compound

Impacts to Data Sheet:
None

Reason for Change:
To improve manufacturability

Change Implementation Status:
In Progress

Estimated First Ship Date:
December 23, 2011 (date code: 1152)

NOTE: Please be advised that during the transition period customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices:
Traceability code

Revision History:
September 22, 2011: Issued initial notification.
November 30, 2011: Issued final notification. Added attached qualification report.

Attachment(s):

[PCN_CYER-16XYMU298_Affected_CPN.pdf](#) [PCN_CYER-16XYMU298_Affected_CPN.xls](#)
[PCN_CYER-16XYMU298_Qual Report.pdf](#)

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

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TCN75



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-16XYMU298

Date
November 21, 2011

Qualification of 8L SOIC with SG-8300GM MC at ALPH (MMT).

Distribution

Surasit P.
Wanphen L.
Wichai K.
Chalermpon P.

Rangsun K.
C.K. Barlingay
R. Sharma

Microchip Technology (Thailand) Co., Ltd.
14 Moo 1 T.Wangtakien A. Muangchacherngsao,
Chacherngsao, Thailand, 24000
Tel. (+66 38) 857119-45, 857311-19 ext. 1231
Fax (+66 38) 857149-50



MICROCHIP **PACKAGE QUALIFICATION REPORT**

Purpose	Qualification of 8L SOIC with SG-8300GM MC at ALPH (MMT).
CN	BC112459
QUAL ID	Q11106
MP CODE	C5AC24C2XA00
Part No.	24LC256-E/SN
Bonding No.	BDM-000044 Rev. A
CCB No.	1091
<u>Package</u>	
Type	8L SOIC
Package size	150 mils
Die thickness	15 mils
Die size	78.3 x 105.6 mils
<u>Lead Frame</u>	
Paddle size	95 x 158 mils
Material	CDA194
Surface	Ag plate
Process	Stamp
Lead Lock	No
Part Number	14-M4008-10
<u>Die attach material</u>	
Epoxy	8390A
Wire	Au wire
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
ALPH122600160	TMPE212154359.200	1139V4A
ALPH122600161	TMPE212154359.200	1139V4B
ALPH122700001	TMPE212154359.200	1140V4D

Result

Pass Fail _____

8L SOIC assembled by MMT (ALPH) 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-020C standard.

Prepared By: _____ Date: November 21, 2011 (Reliability Engineer)

(Mr.Udom Suksansakul)

Approved By: _____ Date: November 21, 2011 (Reliability Manager)

(Mr. Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
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<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	10/15/11	10/26/11	0/135	Pass	

<u>Precondition</u>								
Electrical Test	Electrical Test : +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on ALPH122600160.000)	S12/14/16 (PDC)	693(0)	10/11/11	10/13/11	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		10/16/11	10/17/11	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		10/17/11	10/24/11	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		10/24/11	10/24/11	693		
Electrical Test	Electrical Test : +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on ALPH122600160.000)	S12/14/16 (PDC)		10/24/11	10/26/11	0/693	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		10/26/11	11/13/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on ALPH122600160.000)	QCI-33003	30(0)	11/13/11	11/13/11	0/30		
	Bond Strength: Bond Shear (14.00 grams) Wire Pull (> 3 grams)	S12/14/16 (PDC)	231(0)	11/13/11	11/15/11	0/231	Pass	77 units / lot
	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	QCI-91022	15 (0) 15 (0)	11/16/11 11/16/11	11/17/11 11/17/11	0/15 0/15	Pass Pass	
UNBIASED-HAST	Electrical Test: +25°C System: NEXTEST_PT	PI-91261B		10/27/11	10/31/11	231		Parts had been pre-conditioned at 260°C
		S12/14/16 (PDC)	231(0)	10/31/11	11/02/11	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		10/26/11	11/05/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on ALPH122600160.000)	S12/14/16 (PDC)	231(0)	11/05/11	11/07/11	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	PI-92014B S12/14/16		10/13/11	11/05/11	45		45 units
	Electrical Test: +25°C and 85°C System: NEXTEST_PT	(PDC)	45(0)	11/05/11	11/07/11	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (14.00 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)		30 (0) wires	-	-	0/30	Pass	