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Product Change Notification - CYER-22ZGAM810

Date: 08 Nov 2010
Product Category: Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; Memory; 8-bit Microcontrollers
Device Family: 
Notification subject: CCB 990.05: Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site.
Notification text: **PCN Status:**
Final notification

Microchip Part#s Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
[PCN_CYER-22ZGAM810_Affected_CPN.xls](#)
[PCN_CYER-22ZGAM810_Affected_CPN.pdf](#)

Description of Change:
Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site.

Pre Change:
G600V

Post Change:
SG-8300GM

Impacts to Data Sheet:
None

Reason for Change:
To improve productivity

Change Implementation Status:
In Progress

Estimated First Ship Date:
December 31, 2011 (Date code 1101)

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

Attachment(s): [PCN_CYER-22ZGAM810_Affected_CPN.pdf](#)
[PCN_CYER-22ZGAM810_Affected_CPN.xls](#)
[PCN_CYER-22ZGAM810_Qual Report.pdf](#)

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

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Parts Affected

MCP1630
MCP1650
MCP1651
MCP1652
MCP3001
MCP3002
MCP3201
MCP3202
MCP3301
MCP3422
MCP3426
MCP3550-50
MCP3550-60
MCP3551
MCP3553
MCP4011
MCP4021
MCP4131
MCP4132
MCP4141
MCP4142
MCP4151
MCP4152
MCP4161
MCP4162
MCP4531
MCP4532
MCP4541
MCP4542
MCP4551
MCP4552
MCP4561
MCP4562
MCP4801
MCP4802
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MCP4821
MCP4822
MCP4901
MCP4911
MCP4921
MCP6002

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MCP6231
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MCP6242
MCP6271
MCP6272
MCP6273
MCP6275
MCP6281
MCP6282
MCP6283
11AA010
11AA020
11AA040
11AA080
11AA160
11LC010
11LC020
11LC040
11LC080
11LC160
24AA01
24AA014
24AA014H
24AA01H
24AA02
24AA024
24AA024H
24AA025
24AA02H
24AA04
24AA04H

24AA08
24AA08H
24AA128
24AA16
24AA16H
24AA256
24AA32A
24AA32AF
24AA52
24AA64
24AA64F
24C01C
24C02C
24FC128
24FC256
24FC64
24LC014
24LC014H
24LC01B
24LC01BH
24LC024
24LC024H
24LC025
24LC02B
24LC02BH
24LC04B
24LC04BH
24LC08B
24LC08BH
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24LC16BH
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24LC32AF
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24VL024H
24VL025
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25AA160C
25AA160D
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25LC080C
25LC080D
25LC160A
25LC160B
25LC160C
25LC160D
25LC320A
25LC640A
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34LC02
34VL02
93AA46A
93AA46B
93AA46C
93AA56A
93AA56B
93AA56C
93AA66A
93AA66B
93AA66C
93AA76C
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93LC86C
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MCP1252-ADJ
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MCP1253-33X50
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TC646B
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TC649
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TC650
TC651
TC652
TC653
TC72
TCN75
TCN75A

PCN# - CYER-22ZGAM810
CATALOG PART NBR
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11AA020-I/MS
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11AA040-I/MS
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93AA86C-I/MS
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93C46AT-E/MS
93C46B-I/MS
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93C46CT-I/MS
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MCP1253T-ADJI/MS
MCP1601-I/MS
MCP1601T-I/MS
MCP1602-120I/MS
MCP1602-150I/MS
MCP1602-180I/MS
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MCP1602-330I/MS
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MCP3202T-CI/MS
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MCP9803-M/MS
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PIC12F509T-I/MS031

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TC72-2.8MUATRB34
TC72-3.3MUA
TC72-3.3MUATR
TC72-5.0MUA
TC72-5.0MUATR
TCN75-3.3MUA
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TCN75-5.0MUA
TCN75-5.0MUA713
TCN75AVUA
TCN75AVUA713



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN#: CYER-22ZGAM810

Date
October 28, 2010

**Qualification of 8L MSOP package with
SG-8300GM mold compound at MTAI
assembly site**

Distribution

Surasit P.
Wanphen L.
Wichai K.
Suchart S.

Rangsun K.
C.K. Barlingay
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Fax (+66 38) 857149-50



MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site
CN	BC102192
QUAL ID	Q10090
MP CODE	Y2AJ1BA3XC00
Part No.	TC4426EUA
Bonding No.	A-023191 Rev. C
CCB No.	990.05
<u>Package</u>	
Type	8L MSOP
Package size	3x3 mm
Die thickness	8 mils
Die size	78 x 62 mils
<u>Lead Frame</u>	
Paddle size	82 x 94 mils
Material	CDA194
Surface	Ag spot
Process	Stamped
Lead Lock	No
Part Number	10100836
<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
MTA112302312	TMPE211156092.100	1036VAT
MTA112302852	TMPE211156092.100	1036W1S
MTA112302924	TMPE211156092.100	1036WAW

Result

Pass Fail _____

8L MSOP assembled by MTAI 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: October 28, 2010 (Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By: _____) Date: October 28, 2010 (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
<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	09/11/10	09/21/10	0/135	Pass	
<u>Precondition</u>								
Electrical Test	Electrical Test : +25°C and 85°C System: TTS (Test 1 lot 125°C on MTA112302312.000)	S12/14/16 (PDC)	693(0)	09/08/10	09/10/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		09/12/10	09/13/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		09/13/10	09/20/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		09/20/10	09/21/10	693		
Electrical Test	Electrical Test : +25°C and 85°C System: TTS (Test 1 lot 125°C on MTA112302312.000)	S12/14/16 (PDC)		0/21/10	09/29/10	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		10/30/10	09/16/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302312.000)	S12/14/16 (PDC)	30(0) 231(0)	10/16/10	10/16/10	0/30 0/231	Pass	77 units / lot
	Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	10/19/10 10/19/10	10/19/10 10/19/10	0/15 0/15	Pass Pass	
Pressure Cooker	Stress Condition: +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B		10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: J750	S12/14/16 (PDC)	231(0)	10/08/10	10/09/10	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		10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302312.000)	S12/14/16 (PDC)	231(0)	10/08/10	10/13/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		09/10/10	10/03/10	45		45 units
	Electrical Test: +25°C and 85°C System: J750	(PDC)	45(0)	10/03/10	10/04/10	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (14.00 grams)		30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	-	0/30	Pass	