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## Product Change Notification - CYER-22ZGAM810 [\(Printer Friendly\)](#)

<b>Date:</b>	08 Nov 2010
<b>Product Category:</b>	Memory; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers
<b>Device Family:</b>	 
<b>Notification subject:</b>	CCB 990.05: Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site.
<b>Notification text:</b>	<p>PCN Status: Final notification</p> <p>Microchip Part#s Affected: See attachments of affected catalog part numbers (CPN) labeled as... <a href="#">PCN_CYER-22ZGAM810_Affected_CPN.xls</a> <a href="#">PCN_CYER-22ZGAM810_Affected_CPN.pdf</a></p> <p>Description of Change: Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site.</p> <p>Pre Change: G600V</p> <p>Post Change: SG-8300GM</p> <p>Impacts to Data Sheet: None</p> <p>Reason for Change: To improve productivity</p> <p>Change Implementation Status: In Progress</p> <p>Estimated First Ship Date: December 31, 2011 (Date code 1101)</p> <p>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.</p> <p>Markings to Distinguish Revised from Unrevised Devices: Traceability code</p>

**Attachment(s):** [PCN\\_CYER-22ZGAM810\\_Affected\\_CPN.pdf](#)  
[PCN\\_CYER-22ZGAM810\\_Affected\\_CPN.xls](#)  
[PCN\\_CYER-22ZGAM810\\_Qual Report.pdf](#)

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PCN# - CYER-22ZGAM810
CATALOG PART NBR
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11AA010T-I/MS
11AA020-I/MS
11AA020T-I/MS
11AA040-I/MS
11AA040T-I/MS
11AA080-I/MS
11AA080T-I/MS
11AA160-I/MS
11AA160T-I/MS
11LC010-I/MS
11LC010T-I/MS
11LC020-I/MS
11LC020T-I/MS
11LC040-I/MS
11LC040T-I/MS
11LC080-I/MS
11LC080T-I/MS
11LC160-I/MS
11LC160T-I/MS
24AA014H-I/MS
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24AA014T-I/MS
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TCN75  
TCN75A



**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  
R. Sharma

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## MICROCHIP PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site
<b>CN</b>	BC102192
<b>QUAL ID</b>	Q10090
<b>MP CODE</b>	Y2AJ1BA3XC00
<b>Part No.</b>	TC4426EUA
<b>Bonding No.</b>	A-023191 Rev. C
<b>CCB No.</b>	990.05
<b><u>Package</u></b>	
<b>Type</b>	8L MSOP
<b>Package size</b>	3x3 mm
<b>Die thickness</b>	8 mils
<b>Die size</b>	78 x 62 mils
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	82 x 94 mils
<b>Material</b>	CDA194
<b>Surface</b>	Ag spot
<b>Process</b>	Stamped
<b>Lead Lock</b>	No
<b>Part Number</b>	10100836
<b><u>Die attach material</u></b>	
<b>Epoxy</b>	8390A
<b>Wire</b>	Au wire
<b>Mold Compound</b>	SG-8300GM
<b>Plating Composition</b>	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
<b><u>MSL</u></b>								
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	
<b><u>Precondition</u></b>								
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
<b>Temp Cycle</b>	<b>Stress Condition:</b> -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
	<b>Electrical Test:</b> +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302312.000)	S12/14/16 (PDC)	30(0)	10/16/10	10/16/10	0/30	Pass	77 units / lot
	<b>Bond Strength:</b> Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0)	10/19/10	10/19/10	0/15	Pass	
<b>Pressure Cooker</b>	<b>Stress Condition:</b> +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B	15 (0)	10/19/10	10/19/10	0/15	Pass	
	<b>Electrical Test:</b> +25°C System: J750	S12/14/16 (PDC)	231(0)	10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
				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
<b>HAST</b>	<b>Stress Condition:</b> +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
	<b>Electrical Test:</b> +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
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		09/10/10	10/03/10	45		45 units
	<b>Electrical Test:</b> +25°C and 85°C System: J750	(PDC)	45(0)	10/03/10	10/04/10	0/45	Pass	
<b>Bond Strength Data Assembly</b>	Bond Shear (14.00 grams)		30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	-	0/30	Pass	