

## User Registration

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PCN Date: 12/23/201	4		Effective Date: 3/27/2015					
Title: Si5100/10, Si5320/21/64, Si5374/75/76 PBGA Mold Compound Change								
Originator: Paranidharan			e: +65 6511 7735	Dept: Supplier Management				
Customer Contact: Kathy Haggar P			e: (512) 532-5261	Dept: Sales				
PCN Type:								
🗆 Datasheet 🛛 🗆 Found				Packing				
Product Revision	🛛 Asse	mbly	🗆 Labeling					
🗆 Discontinuance 🛛 🗆 Test			🗆 Other					
Last Order Date: Not	Applicable							
PCN Details								
<b>Description of Change:</b> Silicon Labs is pleased to announce the availability of a new mold compound for Timing PBGA-based products. The mold compound is changing from Hitachi-GE-506 to Panasonic-CV8710 to better accommodate a change in assembly tooling.								
	Current		posed					
Mold Compound HITACHI-GE-506		PANASONIC-CV8710						
Reason for Change: For better cycle time & higher quality.								
Impact on Form, Fit, Function, Quality, Reliability:								
No change in Form, Fi	No change in Form, Fit, Function, Quality & Reliability.							



Product Identificat	ion:
Part Number	
SI5100-H-GL	
Si5100-H-BL	
SI5100-H-XL4	
SI5110-H-XL4	
SI5320-H-XL3	
SI5320-H-ZL3	
SI5321-H-BL	
SI5321-H-GL	
SI5321-H-XL4	
SI5321-H-ZL4	
SI5364-H-BL	
SI5364-H-GL	
SI5364-H-XL5	
SI5374B-A-GL	
Si5374B-A-BL	
SI5374C-A-GL	
Si5374C-A-BL	
SI5375B-A-BL	
SI5375B-A-GL	
SI5376B-A-BL	
SI5376B-A-GL	
SI5110-H-BL	
SI5110-H-GL	
SI5320-H-BL	
Si5320-H-GL	
SI5321-H-ZL2	
SI5364-H-ZL5	
Last Date of Uncha	anged Product: 3/27/2015
Qualification Samp	les:
Available upon requ	Jest.

W7206F1 Process Change Notice Form rev AR The information contained in this document is PROPRIETARY to Silicon Laboratories, Inc. and shall not be reproduced or used in part or whole without Silicon Laboratories' written consent. The document is uncontrolled if printed or electronically saved. Pg 5



Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at www.silabs.com.

In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.

**Customer Early Acceptance Sign Off:** 

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance: Date: \_\_\_\_\_

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Email your early Acceptance approval to: <u>katherine.haggar@silabs.com</u>

**Qualification Data:** 

See Appendix.



## Appendix

## Si537x 80-Pin 10x10 mm BGA Qualification Report

W7 101F1 Product Qualification Plan and Report Rev. E

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Part Rev A, TSMC Fabrication, SPIL Assembly except as noted								
			Lot ID or					
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status	
Test Group A - A	ccelerated Environment Stres	s Tests						
HAST	JA1 10		Q35729	0/25	1			
	110°C, 85%RH	3 lots, N=>25	Q3 56 17	0/25	1	3 lots	Pass	
	Vcc=2.5V, 264 hours		Q3 57 30	0/25	1	0/75		
Temp Cycle	JA104		Q36378	0/25	1			
	Cond B: -65°C to 150°C	3 lots, N⊨>25	Q36379	0/25	1	3 lots		
	500 cycles		Q36380	0/25	1	0/75	Pass	
HTSL	JA103		Q36381	0/25	1			
	150°C, 500 hours	3 lots, N=>25	Q36382	0/23	1	3 lots		
			Q36383	0/25	1	0/73	Pass	
Test Group B - A	ccelerated Lifetime Simulatio	n Tests						
HTOL	JA108		Q30474	0/80	2			
	125°C, Dynamic	3 lots, N=>77	Q25592	0/80	2	3 lots		
	Vcc=2.5V, 1000 hours		Q25904	0/80	2	0/240	Pass	
ELFR	JA108		Q30433	0/502	2			
	125°C, Dynamic	3 lots, N=>500	Q25539	0/511	2	3 lots		
	Vcc=2.5V, 48 hours		Q26187	0/504	2	0/1517	Pass	
Test Group E - El	ectrical Verification							
E SD-HBM	JA114							
		1 lot, N=>3	029471		2		2.5 kV	
							700V (Clk pins)	
E SD-C DW	UC101						····,	
		1 lot, N=>3	029472		2		250 V	
					-		150V (Clk pins)	
E SD- MMA	 JA115							
		1 lot, N=>3	029470		2		200 V	
			~~~~~		2		150V (Clk pins)	
Latch Up	JE SD78	+					1996 (City blub)	
Lacon op	±200 m A	1 lot, N=>6					Pass	
	Overvoltage = 4.2V		Q30317	25 C	2		, 635	
	10001000080-4120			200	۷			

Approved by: Noel Arguello

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## Si537x 80-Pin 10x10 mm BGA Qualification Report

W7 101F1 Product Qualification Plan and Report 👘 Rev. E

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Part Rev A, TSMC Fabrication, SPIL Assembly except as noted							
			Lot ID or	Fail/Pass or			
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status

Notes:

1. Parts are Pre-conditioned at MSL3/260°C

2. Leveraged die family data

This report applies to the following part numbers:							
Si5374B- A-BL Si5376B- A-GL	Si5374B-A-GL	S15375B-A-BL	Si5375B-A-GL	Si 53 76 B-A-BL			

Approved by: Noel Arguello