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PCN Date: 5/22/2012		Effective Date: 8/28/2012	
Title: Si4x3x Assembly Site Change - SPIL			
Originator: Vivek Mohan		Phone: 14087021251	Dept: SRW Marketing
Customer Contact: Kathy Hagger		Phone: 15125325261	Dept: Inside Sales
PCN Type: <input type="checkbox"/> Datasheet <input type="checkbox"/> Foundry <input type="checkbox"/> Packing <input type="checkbox"/> Product Revision <input checked="" type="checkbox"/> Assembly <input type="checkbox"/> Labeling <input type="checkbox"/> Discontinuance <input type="checkbox"/> Test <input type="checkbox"/> Other Last Order Date: N/A			
PCN Details			
Description of Change: Silicon Labs is pleased to announce the successful qualification of an additional assembly site for the EZRadioPRO Si4x3x product family. Siliconware Precision Industries Co. Ltd., Taiwan (SPIL) is an existing fab and assembly site for Silicon Labs, is certified to ISO14001 and ISO/TS16949 and is a Sony Green Partner.			
Reason for Change: Qualification of SPIL establishes dual assembly sites for geographic and supplier diversity/flexibility providing additional capacity to meet growing customer demand.			
Impact on Form, Fit, Function, Quality, Reliability: There is no impact on form, fit, function, quality or reliability. The Si4X3X devices assembled at SPIL will comply with Silicon Labs' relevant datasheets and quality levels.			
Product Identification: Si4432-B1-FM Si4431-B1-FM Si4313-B1-FM Si4430-B1-FM Si4031-B1-FM Si4330-B1-FM Si4032-B1-FM Si4030-B1-FM Si4033-B2-FM Si4431-A0-FM Si4430-A0-FM Si4030-A0-FM Si4031-A0-FM Si4330-A0-FM Si4032-V2-FM Si4432-V2-FM			
Last Date of Unchanged Product: 8/28/2012			



Process Change Notice #1205221

Qualification Samples:

Available upon request. Please contact your local Silicon Laboratories sales representative to order samples. A list of Silicon Laboratories sales representatives may be found at www.silabs.com

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: katherine.haggard@silabs.com

Qualification Data:

See Appendix A.

Embed File(s):

Appendix A

SPIL 4X4 QFN Qualification Report



W7101F1 Product Qualification Plan and Report Rev. D

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4X4 QFN, Pkg 657, SPIL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A - Accelerated Environment Stress Tests							
Moisture Reflow/Sensitivity	JA113	3 lots, N=>22	Q31207	0/22	1	3 lots 0/66	Pass
	Reflow 3X 260°C		Q31209	0/22	1		
	22pc CSAM per Qual		Q31211	0/22	1		
HAST	JA110	3 lots, N=>77	Q31217	0/80		3 lots 0/238	Pass
	130°C, 85%RH		Q31215	0/80			
	Vcc=3.6V, 96 hours		Q31219	0/80			
Temp Cycle	JA104	3 lots, N=>77	Q31201	0/78		3 lots 0/240	Pass
	Cond C: -65°C to 150°C		Q31203	0/80			
	500 cycles		Q31205	0/80			
HTSL	JA103	1 lot, N=>45	Q31213	0/50		1 lot 0/50	Pass
Test Group C - Package Assembly Integrity Tests							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	498142	0/30		3 lots 0/0	Pass
			499171	0/30			
			500623	0/30			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	498142	0/30		3 lots 0/0	Pass
			499171	0/30			
			500623	0/30			
Physical Dimensions	JB100	3 lots, N=>10	498142	0/10		3 lots 0/30	Pass
			499171	0/10			
			500623	0/10			
Solderability	JB102	1 lot, N=>15	498142	0/15		3 lots 0/45	Pass
			499171	0/15			
			500623	0/15			

Notes:

1. Devices subjected to moisture preconditioning at MSL1@260°C

This report applies to the following part numbers:				
SI4313-B1	SI4030-A0	SI4030-B1	SI4031-A0	SI4031-B1
SI4032-V2	SI4032-B1	SI4330-A0	SI4330-B1	SI4430-A0
SI4430-B1	SI4431-A0	SI4431-B1	SI4432-V2	SI4432-B1
SI4033-B2				

Approved by: Quang Ngo

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Prepared on: 20-Feb-12