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Title: EM357x,8x,9x Assembly site addition Originator: Paranidharan Phone: +65-65117735 Dept: Supplier Management					
Originator: Paranidharan Phone: +65-65117735 Dent: Supplier Management					
Thome. Too-00117700 Dept. Supplier Managemen					
Customer Contact: Kathy Haggar Phone: (512) 532-5261 Dept: Sales					
PCN Type:					
□ Datasheet □ Foundry □ Packing					
□ Product Revision ⊠ Assembly □ Labeling					
□ Discontinuance □ Test □ Other					
Last Order Date: NA					
PCN Details					
Description of Change: Silicon Labs is pleased to announce the successful addition of SPIL (Siliconware Precision Industries C., Ltd.) as an additional assembly site for the EM357x, EM358x & EM359x products. SPIL is an existing assembly site for Silicon Labs, and is certified to ISO9001, ISO14001 and ISO/TS16949. SPIL address: Siliconware Precision Industries Co., Ltd. No. 153, Sec. 3, Chung Shan Road, Tantzu, Taichung, Taiwan 427, R. O. C Tel: 886-4-2534-1525 Fax: 886-4-2533-0639 Both SPIL 48QFN-7x7 & 56QFN-8x8 are qualified as MSL2 which is the same as that of ASE-CL (Chung Li) packages. As of the effective date of the PCN, Silicon Labs may assemble from either of the qualified Assembly sites. Reason for Change: Increase assembly capacity to ensure dual sourcing.					



Product Identification:
EM355-RT
EM355-RTR
EM355-IRT
EM355-IRTR
EM3555-RT
EM3555-RTR
EM3555-IRT
EM3555-IRTR
EM356-RT
EM356-RTR
EM357-ZRT
EM357-ZRTR
EM357-IRT
EM357-IRTR
EM3581-IRT
EM3581-IRTR
EM3582-IRT
EM3582-IRTR
EM3585-IRT
EM3585-IRTR
EM3586-IRT
EM3586-IRTR
EM3587-IRT
EM3587-IRTR
EM3588-IRT
EM3588-IRTR
Last Date of Unchanged Product: 3/25/2016
Qualification Samples:
Available upon request



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:

Company:

Email your early Acceptance approval to: katherine.haggar@silabs.com



Qualification Data:

EM357x:

EM35x Qualification Report

W7101F1 - Product Qualification Report Record

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Part Rev A3,	TSMC Fabrication, ASE	CL and SPIL /					
To at Name	To at O and lities	0	1	Fall/Pass o		Cummon	Ctatus
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
	Accelerated Environment St	ress Tests A	SECL Asse		_		
HAST	JA110		Q034974				
	130 °C, 85%RH	3 lots, N=>25	Q034806	0/27	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q034946	0/30		0/87	
Temp Cycle	JA104		Q034843	0/27			
	Cond C: -65 °C to 150 °C	3 lots, N=>25	Q034643	0/27	1	3 lots	Pass
	500 cycles		Q034676	0/27		0/81	
HTSL	JA103		Q034677	0/27			
	150 °C, 1000hr	3 lots, N=>25	Q034644	0/27	1	3 lots	Pass
			Q034804	0/27		0/81	
Test Group A -	Accelerated Environment St	ress Tests SF	IL Assemb	ly			
HAST	JA110		Q036875	0/25			
	130 °C, 85%RH	3 lots, N=>25	Q036874	0/25	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q036873	0/25		0/75	
Temp Cycle	JA104		Q036920	0/25			
	Cond C: -65 ℃ to 150 ℃	3 lots, N=>25	Q036919	0/25	1	3 lots	Pass
	500 cycles	0 1010, 11-220	Q036918	0/25	Ι.	0/75	1 430
HTSL	JA103		Q037010	0/25		475	
	150 °C, 1000hr	3 lots, N=>25	Q037015	0/25	1	3 lots	Pass
	150 0, 100011	3 10ts, 14=>25	Q037015		'	0/75	Fass
Test Group F -	Electrical Verification		Q007010	U Z J		075	
ESD-HBM	JA114		Q034472	0/6			
	JA114	1 lot, N=>3	Q034472	0/6		2 lots	Max Pass 2KV
		1 10t, IV=>3	Q034471	u o			Max Pass 2NV
ESD-CDM	10404		0004004	o/o		0/12	
	JC101		Q034621	0/6			5 -:
		1 lot, N=>3	Q034474	0/6		3 lots	Max Pass 2KV
	IEOD70		Q037045	0/6	11-11-	0/18	
Latch Up	JESD78 ±100mA	1 lot. N=>3	Q034619 Q034483	0/6 0/6	Hot temp Hot temp		Pass
	TIOUIN	1 lot, 14=20	Q034620	0/6	Ambient		Fass
			Q034482	0/6	Ambient		

Notes:

1. Parts are Pre-conditioned at MSL 2/ 260 ℃

This report applies to the following part numbers:				
EM357-RT/RTR EM351-RT/RTR	EM341-RT/RTR EM342-RT/RTR	EM346-RT/RTR		



EM358x:

EM358x Qualification Report

W7101F1 - Product Qualification Report Record Rev. H

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	Lot ID or Fail/Pass or						
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
	Accelerated Environment St	ress Tests A	SECL Ass	embly			
HAST	JA110		Q035159	0/27			
	130 °C, 85%RH	3 lots, N=>25	Q035158	0/26	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q035157	0/27		0/80	
Temp Cycle	JA104		Q033928	0/30			
	Cond C: -65°C to 150°C	3 lots, N=>25	Q033896	0/30	1	3 lots	Pass
	500 cycles		Q034083	0/30		0/90	
HTSL	JA103		Q033929	0/30			
	150°C, 1000hr	3 lots, N=>25	Q033897	0/30	1	3 lots	Pass
			Q034084	0/30		0/90	
Test Group A -	Accelerated Environment St	ress Tests SP	IL Assemi	bly			
HAST	JA110		Q037427	0/25			
	130℃, 85%RH	3 lots, N=>25	Q037428	0/25	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q037429	0/25		0/75	
Temp Cycle	JA104		Q037017	0/25			
	Cond C: -65°C to 150°C	3 lots, N=>25	Q037018	0/25	1	3 lots	Pass
	500 cycles		Q037019	0/25		0/75	
HTSL	JA103		Q037010	0/25			
	150°C, 1000hr	3 lots, N=>25	Q037015	0/25	1	3 lots	Pass
		,	Q037016	0/25		0/75	
Test Group B -	Accelerated Lifetime Simular	tion Tests					
HTOL	JA108		Q034339	0/84			
	T _J ≥ 125°C, Dynamic	3 lots, N=>77	Q034741	0/80		3 lots	Pass
	Vcc=3.6V, 1000 hours		Q034797	0/81		0/245	
LTOL	JA108						
	T _A = -10°C, Dynamic	1 lot, N=>32	Q034281	0/40		2 lots	Pass
	Vcc=3.6V, 1000 hours					0/40	
ELFR	JA108		Q035188	0/541			
	T _J ≥ 125°C, Dynamic	3 lots, N=>500	Q034358	0/500		4 lots	Pass
	Vcc=3.6V, 48 hours		Q033985	0/500			
			Q034798	0/500		0/2041	
Test Group E -	Electrical Verification						
ESD-HBM	JA114		Q033812	0/13			
	57114	1 lot, N=>3	Q035089	0/15		2 lots	Max Pass 2
		54,14-50	2000000	0.10		0/28	1 GOO E1
ESD-CDM	JC101		Q033811	0/12		GEO	
	30101	1 lot, N=>3	Q035090	0/15		3 lots	Max Pass 2
		1 101, 14-3-3	Q037046	0/15		0/42	IVIDA I DOS ZI
Latch Up	JESD78		Q037046 Q033813	0/6		UHZ	
	±200mA	1 lot, N=>3	Q035091	0/6		2 lots	Pass
	I					0/12	

Notes

1. Parts are Pre-conditioned at MSL 2/ 260°C

This report applies to the following part numbers:				
EM3581-RT/RTR	EM3586-RT/RTR			
EM3582-RT/RTR	EM3587-RT/RTR			
EM3585-RT/RTR	EM3588-RT/RTR			
Emosos IIIIII	Emosos IIIIII			



EM359x:

EM359x Qualification Report

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			Lot ID or	Fail/Pass or			
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
	Accelerated Environment Stress	s Tests ASEC	L Assemb	ly			
HAST	JA110		Q035159	0/27			
	130 °C, 85%RH	3 lots, N->25	Q035158	0/26	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q035157	0/27		0/80	
Temp Cycle	JA104		Q035162	0/27			
	Cond C: -65°C to 150°C	3 lots, N=>25	Q035161	0/27	1	3 lots	Pass
	500 cycles		Q035160	0/27		0/81	
HTSL	JA103		Q035165	0/27			
	150℃, 1000hr	3 lots, N=>25	Q035164	0/27	1	3 lots	Pass
			Q035163	0/27		0/81	
	Accelerated Environment Stress	s Tests SPIL /	Assembly				
HAST	JA110		Q037427	0/25			
	130°C, 85%RH	3 lots, N->25	Q037428	0/25	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q037429	0/25		0/75	
Temp Cycle	JA104		Q037029	0/25			
	Cond C: -65°C to 150°C	3 lots, N=>25	Q037030	0/25	1	3 lots	Pass
	500 cycles		Q037031	0/25		0/75	
HTSL	JA103		Q037026	0/25			
	150°C, 1000hr	3 lots, N=>25	Q037027	0/25	1	3 lots	Pass
			Q037028	0/25		0/75	
Γest Group B − A	Accelerated Lifetime Simulation	Tests					
HTOL	JA108		Q034339	0/84			
	T _J ≥ 125°C, Dynamic	3 lots, N->77	Q034741	0/80		3 lots	Pass
	Vcc=3.6V, 1000 hours		Q034797	0/81		0/245	
LTOL	JA108						
	T _A = -10 °C, Dynamic	1 lot, N=>32	Q034281	0/40		2 lots	Pass
	Vcc=3.6V, 1000 hours					0/40	
ELFR	JA108		Q035188	0/541			
	T _J ≥ 125°C, Dynamic	3 lots, N->500	Q034358	0/500		4 lots	Pass
	Vcc=3.6V, 48 hours		Q033985	0/500			
			Q034798	0/500		0/2041	
Test Group E – E	Electrical Verification						
ESD-HBM	JA114						
		1 lot, N=>3	Q035100			1 lot	Max Pass 2K
						0/15	
ESD-CDM	JC101		Q037046				
		1 lot. N=>3	Q037045			3 lots	Max Pass 2K
			Q035101			0/45	
Latch Up	JESD78		2000.01			V. 10	
	±100mA	1 lot, N=>3	Q035102			1 lot	Pass

Notes:

1. Parts are Pre-conditioned at MSL 2/ 260°C

	This report applies to the following part numbers:				
EM3591-RT/RTR	EM3596-RT/RTR				
EM3592-RT/RTR	EM3597-RT/RTR				
EM3595-RT/RTR	EM3598-RT/RTR				