



2605131816 Additional Assembly, Test and Ship Site for Si4x6x/Si4438 Rev B (20-QFN-4x4)

PCN Issue Date: May 13, 2026

Effective Date: Aug 19, 2026

PCN Type: Assembly; Test

Description of Change

Silicon Labs is pleased to announce the successful qualification of UNISEM (M) BERHAD as an additional assembly, test and ship site for Si4x6x/Si4438 Rev B (20-QFN-4x4). UNISEM is an existing assembly and test site for Silicon Labs, and is certified to ISO9001, ISO14001 and IATF16949.

UNISEM Ship Address:
UNISEM (M) BERHAD
LOT 302285, JALAN INDUSTRI 1/1,
KAWASAN PERINDUSTRIAN GOPENG,
31600 GOPENG, PERAK
MALAYSIA.

As of the effective date of the PCN, Silicon Labs may ship from either of the qualified sites.

Software Impact Description

No impact

Reason for Change

Additional Assembly and Test capacity for supply continuity

Impact on Form, Fit, Function, Quality, Reliability

There is no change on form, fit, function, quality or reliability

Product Identification

Existing Part #
SI4060-B1B-FM
SI4060-B1B-FMR
SI4063-B1B-FM
SI4063-B1B-FMR
SI4362-B1B-FM
SI4362-B1B-FMR
SI4438-B1C-FM
SI4438-B1C-FMR
SI4460-B1B-FM
SI4460-B1B-FMR
SI4460-B1B-ZM1
SI4460-B1B-ZM1R
SI4461-B1B-FM
SI4461-B1B-FMR
SI4463-B1B-FM

SI4463-B1B-FMR
SI4464-B1B-FM
SI4464-B1B-FMR

Last Date of Unchanged Product: Aug 19, 2026

Qualification Samples

Available upon request

Customer Response

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

To request further data or inquire about this notification, please contact your Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at <https://www.silabs.com>.

Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCN@silabs.com

User Registration

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Qualification Data

Please refer to qualification report below

Si4xxx-C2A / Si446x-A2A Qualification Report

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Part Rev C2, TSMC Fabrication, ASECL 20-QFN-4x4 Assembly except as noted

Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
HAST	JA110 130°C, 85%RH Vcc=3.8V, 96 hours	3 lots, N=>77	Q035030	0/80	1	6 lots 0/479	Pass
			Q035235	0/80	1		
			Q035240	0/79	1		
			Q049640	0/80	1, 6		
			Q049641	0/80	1, 6		
			Q049642	0/80	1, 6		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q035032	0/80	1	6 lots 0/480	Pass
			Q035237	0/80	1		
			Q035238	0/80	1		
			Q049808	0/80	1, 2, 6		
			Q049809	0/80	1, 2, 6		
			Q049810	0/80	1, 2, 6		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q035031	0/80	1	12 lots 0/1045	Pass
			Q035236	0/80	1		
			Q035239	0/80	1		
			Q035279	0/90	1, 2		
			Q035280	0/90	1, 2		
			Q035281	0/90	1, 2		
			Q049662	0/80	1, 6		
			Q049663	0/80	1, 6		
			Q049664	0/80	1, 6		
			Q049807	0/98	1, 2, 6		
			Q049806	0/100	1, 2, 6		
			Q049805	0/97	1, 2, 6		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q035033	0/78	1	3 lots 0/175	Pass
			Q035241	0/48	1		
			Q035242	0/49	1		
Test Group A – Accelerated Environment Stress Tests (UNISEM)							
HAST	JA110 130°C, 85%RH Vcc=3.8V, 96 hours	3 lots, N=>77	Q049726	0/80	1	3 lots 0/240	Pass
			Q049727	0/80	1		
			Q049728	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q049749	0/80	1	12 lots 0/986	Pass
			Q049752	0/80	1		
			Q049754	0/80	1		
			Q049842	0/90	1, 2		
			Q049845	0/86	1, 2		
			Q049848	0/90	1, 2		
			Q052143	0/80	1,5,7		
			Q052147	0/80	1,5,7		
			Q052151	0/80	1,5,7		

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Part Rev C2, TSMC Fabrication, ASEC L 20-QFN-4x4 Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
			Q053141	0/80	1,3,7		
			Q053145	0/80	1,3,7		
			Q053149	0/80	1,3,7		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q049850	0/85	1	12 lots 0/1033	Pass
			Q049851	0/85	1		
			Q049852	0/84	1		
			Q049843	0/94	1, 2		
			Q049846	0/95	1, 2		
			Q049849	0/95	1, 2		
			Q052144	0/85	1,5,7		
			Q052148	0/85	1,5,7		
			Q052152	0/85	1,5,7		
			Q053142	0/80	1,3,7		
			Q053146	0/80	1,3,7		
			Q053150	0/80	1,3,7		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q049925	0/80	1	12 lots 0/988	Pass
			Q049926	0/80	1		
			Q049927	0/78	1		
			Q050053	0/90	1, 2		
			Q050054	0/90	1, 2		
			Q050055	0/90	1, 2		
			Q052145	0/80	1,5,7		
			Q052149	0/80	1,5,7		
			Q052153	0/80	1,5,7		
			Q053143	0/80	1,3,7		
			Q053147	0/80	1,3,7		
			Q053151	0/80	1,3,7		
Test Group B – Accelerated Lifetime Simulation Tests							
HTOL	JA108 T _j ≥ 125°C, Dynamic V _{cc} =3.8V, 1000 hours	3 lots, N=>77	Q035137	0/85		3 lots 0/249	Pass
			Q035721	0/81			
			Q035945	0/83			
LTOL	JA108 -10°C, Dynamic V _{cc} =3.8V, 1000 hours	1 lot, N=>77	Q030413	0/80		1 lot 0/80	Pass
ELFR	AEC-Q100-008 T _j ≥ 125°C, Dynamic V _{cc} =3.8V, 48 hours	3 lots, N=>800	Q035612	0/814		3 lots 0/2444	Pass
			Q035671	0/818			
			Q035944	0/812			
Test Group C – Package Assembly Integrity Tests							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	630749	0/30		9 lots 0/270	Pass
			630750	0/30			
			634080	0/30			

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Part Rev C2, TSMC Fabrication, ASECL 20-QFN-4x4 Assembly except as noted								
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status	
			1162036	0/30	6			
			1162307	0/30	6			
			1162038	0/30	6			
			1162040	0/30	2, 6			
			1162041	0/30	2, 6			
			1175623	0/30	2, 6			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	630749	0/30		9 lots 0/270	Pass	
			630750	0/30				
			634080	0/30				
			Q050011	0/30	6			
			Q050012	0/30	6			
			Q050013	0/30	6			
			Q050015	0/30	2, 6			
			Q050016	0/30	2, 6			
Physical Dimensions	JB100	3 lots, N=>10	630749	0/30		9 lots 0/270	Pass	
			630750	0/30				
			634080	0/30				
			1162036	0/30	6			
			1162307	0/30	6			
			1162038	0/30	6			
			1162040	0/30	2, 6			
			1162041	0/30	2, 6			
Solderability	J-STD-002	1 lot, N=>15	630749	0/10		9 lots 0/90	Pass	
			630750	0/10				
			634080	0/10				
			1162036	0/10	6			
			1162307	0/10	6			
			1162038	0/10	6			
			1162040	0/10	2, 6			
			1162041	0/10	2, 6			
Test Group C – Package Assembly Integrity Tests (UNISEM)								
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	1166864	0/30		8 lots 0/240	Pass	
			1166867	0/30				2
			1225218	0/30				5,7
			1225219	0/30	5,7			
			1225220	0/30	5,7			
			1257017	0/30	3,7			
			1257018	0/30	3,7			



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Part Rev C2, TSMC Fabrication, ASECL Z0-QFN-4x4 Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
			1257019	0/30	3,7		
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	Q049943	0/30		8 lots	Pass
			Q050052	0/30	2		
			1225218	0/30	5,7		
			1225219	0/30	5,7		
			1225220	0/30	5,7		
			1257017	0/30	3,7		
			1257018	0/30	3,7		
			1257019	0/30	3,7	0/240	
Physical Dimensions	JB100	3 lots, N=>10	1166864	0/30		8 lots	Pass
			1166867	0/30	2		
			1225218	0/30	5,7		
			1225219	0/30	5,7		
			1225220	0/30	5,7		
			1257017	0/30	3,7		
			1257018	0/30	3,7		
			1257019	0/30	3,7	0/240	
Solderability	J-STD-002	1 lot, N=>15	1166864	0/10		8 lots	Pass
			1166867	0/10	2		
			1225218	0/10	5,7		
			1225219	0/10	5,7		
			1225220	0/10	5,7		
			1257017	0/10	3,7		
			1257018	0/10	3,7		
			1257019	0/10	3,7	0/80	
Test Group E – Electrical Verification							
ESD-HBM	AEC-Q100-002	1 lot, N=>3	Q035921		5		±2 kV
			Q035948		4		±2 kV
			Q035953		2, 3		±2 kV
ESD-MM	AEC-Q100-003	1 lot, N=>3	Q035927		5		±200 V
			Q035949		4		±150 V
			Q035954		2, 3		±150 V
ESD-CDM	AEC-Q100-011	1 lot, N=>3	Q035919		5		±500 V
			Q036260		4		±400 V
			Q035955		3		±500 V
			Q035955		2		±500 V
Latch Up	AEC-Q100-004 ±200mA Overvoltage = 5.7V	1 lot, N=>6	Q035947	25C	5		
			Q035946	125C	5		
			Q035951	25C	4		Pass
			Q035952	125C	4		
			Q035956	25C	2, 3		



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Part Rev C2, TSMC Fabrication, ASECL 20-QFN-4x4 Assembly except as noted

Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
			Q035957	125C	2, 3		
Gate Leakage	AEC-Q100-006	1 lot, N=>6	Q035959	0/6		1 lot	Pass
Electromagnetic Compatibility	SAE J1752	1 lot, N=>1	Q035960	0/1		1 lot	Pass

Notes:

1. Parts are Pre-conditioned at MSL1/260°C
2. Qualification applies to Si4x5x (3x3 QFN package)
3. Qualification applies to Si4461
4. Qualification applies to Si4060, Si4460, Si4467
5. Qualification applies to Si4063, Si4362, Si4438, Si4463, Si4468
6. Qualification applies to streamline BOM update at ASECL
7. Qualification applies to assemble plant at UNISEM Gopeng

This report applies to the following part numbers:

Si4055-B1A-FM	Si4355-B1A-FM	Si4438-B1C-FDI	Si4460-B1B-FDI
Si4055-C2A-GM	Si4355-C2A-GM	Si4438-B1C-FM	Si4460-B1B-FM
Si4060-B1B-FM	Si4356-B1A-FM	Si4438-C2A-GM	Si4460-C2A-GM
Si4060-C2A-GM	Si4356-C2A-GM	Si4455-B1A-FM	Si4461-B1B-FM
Si4063-B1B-FM	Si4362-B1B-FM	Si4455-C2A-GM	Si4461-C2A-GM
Si4063-C2A-GM	Si4362-C2A-GM		Si4463-B1B-FM
		Si4467-A2A-IM	Si4463-C2A-GM
		Si4468-A2A-IM	Si4464-B1B-FM

Si44xx 20 QFN 4x4 Qualification Report



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Part Rev B1, TSMC Fabrication, 20-QFN-4x4 Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests - SPIL 20-QFN-4x4							
HAST	JA110 130°C, 85%RH Vcc=VccV, 96 hours	3 lots, N=>25	Q039604	0/30	1		
			Q039603	0/30	1	3 lots	Pass
			Q039602	0/30	1	0/90	
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q039598	0/30	1		
			Q039597	0/30	1	3 lots	Pass
			Q039596	0/30	1	0/90	
HTSL	JA103 150°C, 1000hr	3 lot, N=>25	Q039595	0/30	1		
			Q039594	0/30	1	3 lots	Pass
			Q039593	0/30	1	0/90	
Test Group A – Accelerated Environment Stress Tests - Unisem 20-QFN-4x4							
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>25	Q053141	0/80	1		
			Q053145	0/80	1	3 lots	Pass
			Q053149	0/80	1	0/240	
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q053142	0/80	1		
			Q053146	0/80	1	3 lots	Pass
			Q053150	0/80	1	0/240	
HTSL	JA103 150°C, 1000hr	3 lot, N=>25	Q053143	0/80	1		
			Q053147	0/80	1	3 lots	Pass
			Q053151	0/80	1	0/240	
Test Group E – Electrical Verification							
ESD-CDM	JS-002	1 lot, N=>3	Q039605			1KV	Class C2B

Notes:

1. Parts are Pre-conditioned at MSL1/260°C

This report applies to the following part numbers:

Si4460-B1B-FM	Si4060-B1B-FM	Si4438-B1C-ZM1
Si4461-B1B-FM	Si4063-B1B-FM	Si4460-B1B-ZM1
Si4463-B1B-FM	Si4362-B1B-FM	Si4463-B1B-ZM1
Si4464-B1B-FM	Si4438-B1C-FM	Si4460-B1B-ZM

Approved by: Kelvin Lee

Prepared on : 05-May-26

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