



2409111565 Die attach material change for EFM32GG11x/12x (BGA-10x10)

PCN Issue Date: Sep 11, 2024

Effective Date: Dec 17, 2024

PCN Type: Assembly

Description of Change

Silicon Labs is pleased to announce the change of die attach material from Henkel Ablebond 2025D epoxy to Henkel ATB-F125E DAF for all EFM32GG11 & EFM32GG12 (112-LFBGA-10x10) devices.

As of the effective date of this notification, Silicon Labs will fulfill orders using materials built with either Henkel Ablebond 2025D epoxy or Henkel ATB-F125E DAF. Once the current materials built with epoxy are depleted, orders will be 100% fulfilled with the materials built with DAF.

Reason for Change

To qualify a new die attach material.

Impact on Form, Fit, Function, Quality, Reliability

There is no impact on form, fit, function, Quality or Reliability.

Product Identification

Existing Part #
EFM32GG11B310F2048GL112-B
EFM32GG11B310F2048GL112-BR
EFM32GG11B320F2048GL112-B
EFM32GG11B320F2048GL112-BR
EFM32GG11B420F2048GL112-B
EFM32GG11B420F2048GL112-BR
EFM32GG11B420F2048IL112-B
EFM32GG11B420F2048IL112-BR
EFM32GG12B310F1024GL112-A
EFM32GG12B310F1024GL112-AR
EFM32GG12B330F512GL112-A
EFM32GG12B330F512GL112-AR
EFM32GG12B410F1024GL112-A
EFM32GG12B410F1024GL112-AR
EFM32GG12B410F1024IL112-A
EFM32GG12B410F1024IL112-AR
EFM32GG12B430F512GL112-A
EFM32GG12B430F512GL112-AR
EFM32GG12B430F512IL112-A
EFM32GG12B430F512IL112-AR
EFM32GG12B510F1024GL112-A
EFM32GG12B510F1024GL112-AR
EFM32GG12B510F1024IL112-A
EFM32GG12B510F1024IL112-AR
EFM32GG12B530F512GL112-A
EFM32GG12B530F512GL112-AR
EFM32GG12B530F512IL112-A
EFM32GG12B530F512IL112-AR
EFM32GG12B810F1024GL112-A
EFM32GG12B810F1024GL112-AR
EFM32GG12B810F1024IL112-A

EFM32GG12B810F1024IL112-AR
EFM32GG12B830F512GL112-A
EFM32GG12B830F512GL112-AR
EFM32GG12B830F512IL112-A
EFM32GG12B830F512IL112-AR

Last Date of Unchanged Product: Dec 17, 2024

Qualification Samples

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 <http://www.silabs.com>.

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

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Qualification Data

Available upon request.



GM11B31KGx, GM11B32KGx, GM11B42KGx, GM11B42Klx Qualification Report

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Part Rev A, TSMC Fabrication, ASEKR Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
uHAST	JA118	3 lots, N=>25	Q051417	0/30		3 lots 0/90	Pass
	130°C, 85%RH		Q051420	0/30			
	Vcc=3.8V, 96 hours		Q051423	0/30			
Temp Cycle	JA104	3 lots, N=>25	Q051416	0/30		3 lots 0/90	Pass
	Cond C: -65°C to 150°C		Q051419	0/30			
	500 cycles		Q051422	0/30			

Notes:

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

This report applies to the following part numbers:

EFM32GG11B310F2048GL112-B	EFM32GG11B420F2048GL112-B
EFM32GG11B310F2048GL112-BR	EFM32GG11B420F2048GL112-BR
EFM32GG11B320F2048GL112-B	EFM32GG11B420F2048IL112-B
EFM32GG11B320F2048GL112-BR	EFM32GG11B420F2048IL112-BR



GM12B3xJx, GM12B3xHx, GM12B4xJx Qualification Report

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Part Rev A, TSMC Fabrication, ASEKR Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
uHAST	JA118	3 lots, N=>25	Q051407	0/30		3 lots	Pass
	130°C, 85%RH		Q051410	0/30			
	Vcc=3.8V, 96 hours		Q051413	0/30		0/90	
Temp Cycle	JA104	3 lots, N=>25	Q051408	0/30		3 lots	Pass
	Cond C: -65°C to 150°C		Q051411	0/30			
	500 cycles		Q051414	0/30		0/90	

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

This report applies to the following part numbers:	
EFM32GG12B310F1024GL112-A	EFM32GG12B410F1024IL112-A
EFM32GG12B310F1024GL112-AR	EFM32GG12B410F1024IL112-AR
EFM32GG12B330F512GL112-A	EFM32GG12B430F512GL112-A
EFM32GG12B330F512GL112-AR	EFM32GG12B430F512GL112-AR
EFM32GG12B410F1024GL112-A	EFM32GG12B430F512IL112-A
EFM32GG12B410F1024GL112-AR	EFM32GG12B430F512IL112-AR



GM12B5x, GM12B8x Qualification Report

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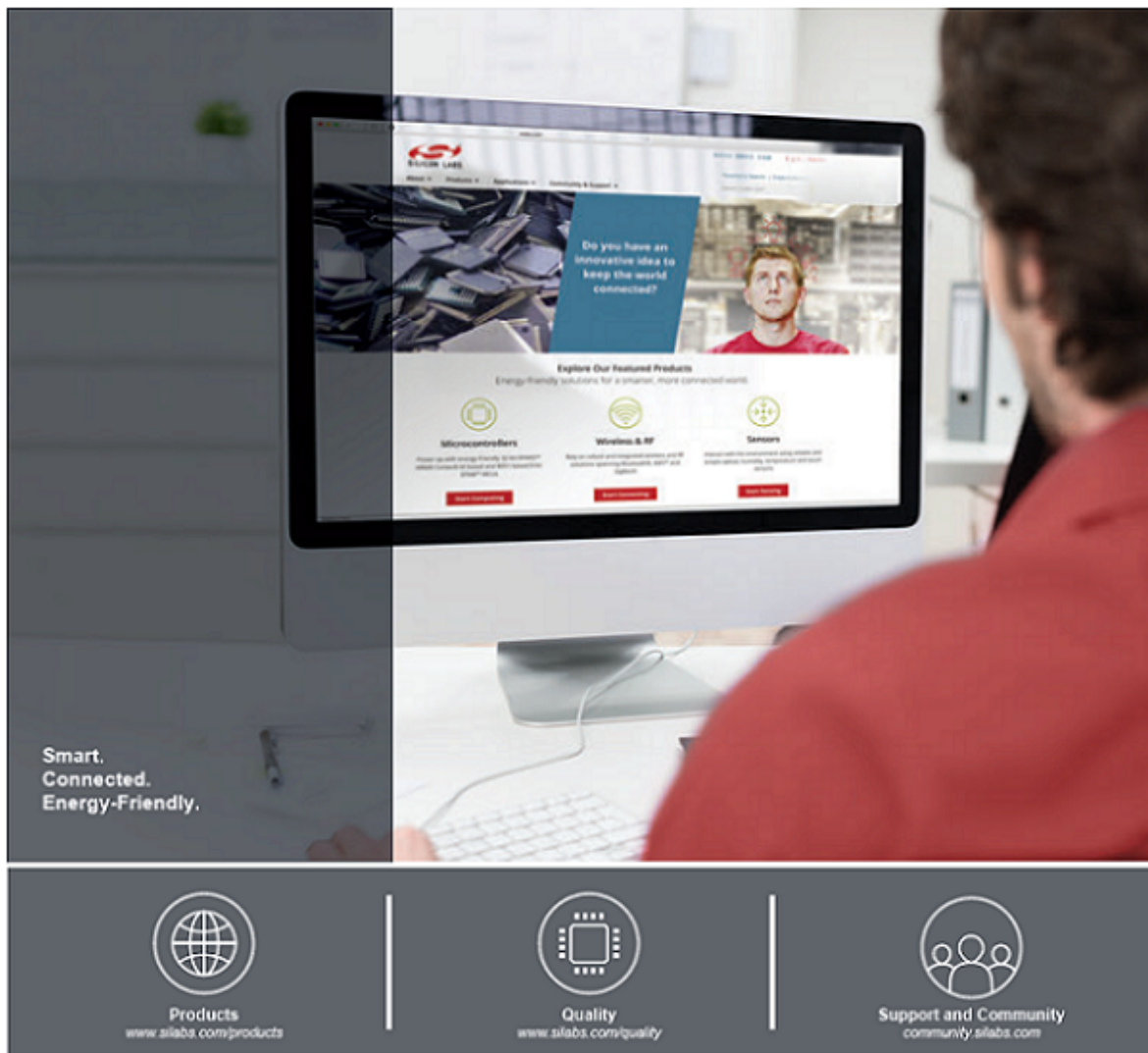
Part Rev A, TSMC Fabrication, ASEKR Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
uHAST	JA118	3 lots, N=>25	Q051289	0/30		3 lots 0/90	Pass
	130°C, 85%RH		Q051292	0/30			
	Vcc=3.8V, 96 hours		Q051295	0/30			
Temp Cycle	JA104	3 lots, N=>25	Q051290	0/30		3 lots 0/90	Pass
	Cond C: -85°C to 150°C		Q051293	0/30			
	500 cycles		Q051296	0/30			

Notes:

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

This report applies to the following part numbers:

EFM32GG12B530F512IL112-A	EFM32GG12B510F1024GL112-A
EFM32GG12B530F512IL112-AR	EFM32GG12B510F1024GL112-AR
EFM32GG12B810F1024GL112-A	EFM32GG12B830F512IL112-A
EFM32GG12B810F1024GL112-AR	EFM32GG12B830F512IL112-AR
EFM32GG12B810F1024IL112-A	EFM32GG12B510F1024IL112-A
EFM32GG12B810F1024IL112-AR	EFM32GG12B510F1024IL112-AR
EFM32GG12B830F512GL112-A	EFM32GG12B530F512GL112-A
EFM32GG12B830F512GL112-AR	EFM32GG12B530F512GL112-AR



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