



# 2212071379 Qualification of New Lead Frame for EFM8BB31, EFM8LB1x in 32-TQFP-7x7 pack

**PCN Issue Date:** Dec 07, 2022

**Effective Date:** Mar 13, 2023

**PCN Type:** Assembly

## Description of Change

Silicon Labs is pleased to announce the successful qualification of a new lead frame for EFM8BB31, EFM8LB1x series in the 32-TQFP-7x7 package. The current lead frame supplier has announced manufacturing EOL by 2022 due to raw material shortage. The new lead frame has the exact same dimensions, material and plating properties as the current lead frame.

There are no additional changes required in the assembly manufacturing process to accommodate the new lead frame.

As of the effective date of the PCN, Silicon Labs will start to fulfill orders using the new lead frame.

## Reason for Change

HDS declared the discontinuation current lead frame due to raw material supply shortage

## Impact on Form, Fit, Function, Quality, Reliability

No impact to Form, Fit, Function, Quality & Reliability

## Product Identification

Existing Part #  
EFM8BB31F16G-D-QFP32  
EFM8BB31F16G-D-QFP32R  
EFM8BB31F16I-D-QFP32  
EFM8BB31F16I-D-QFP32R  
EFM8BB31F32G-D-QFP32  
EFM8BB31F32G-D-QFP32R  
EFM8BB31F32I-D-QFP32  
EFM8BB31F32I-D-QFP32R  
EFM8BB31F64G-D-QFP32  
EFM8BB31F64G-D-QFP32R  
EFM8BB31F64I-D-QFP32  
EFM8BB31F64I-D-QFP32R  
EFM8LB10F16E-C-QFP32  
EFM8LB10F16E-C-QFP32R  
EFM8LB11F16E-C-QFP32  
EFM8LB11F16E-C-QFP32R  
EFM8LB11F32E-C-QFP32  
EFM8LB11F32E-C-QFP32R  
EFM8LB12F32E-C-QFP32  
EFM8LB12F32E-C-QFP32R  
EFM8LB12F64E-C-QFP32  
EFM8LB12F64E-C-QFP32R

**Last Date of Unchanged Product:** Mar 13, 2023

## 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 [PCNEarlyAcceptance@silabs.com](mailto:PCNEarlyAcceptance@silabs.com)

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## Qualification Data

Attached to this PCN Notification



## Alternate LF Qualification Report

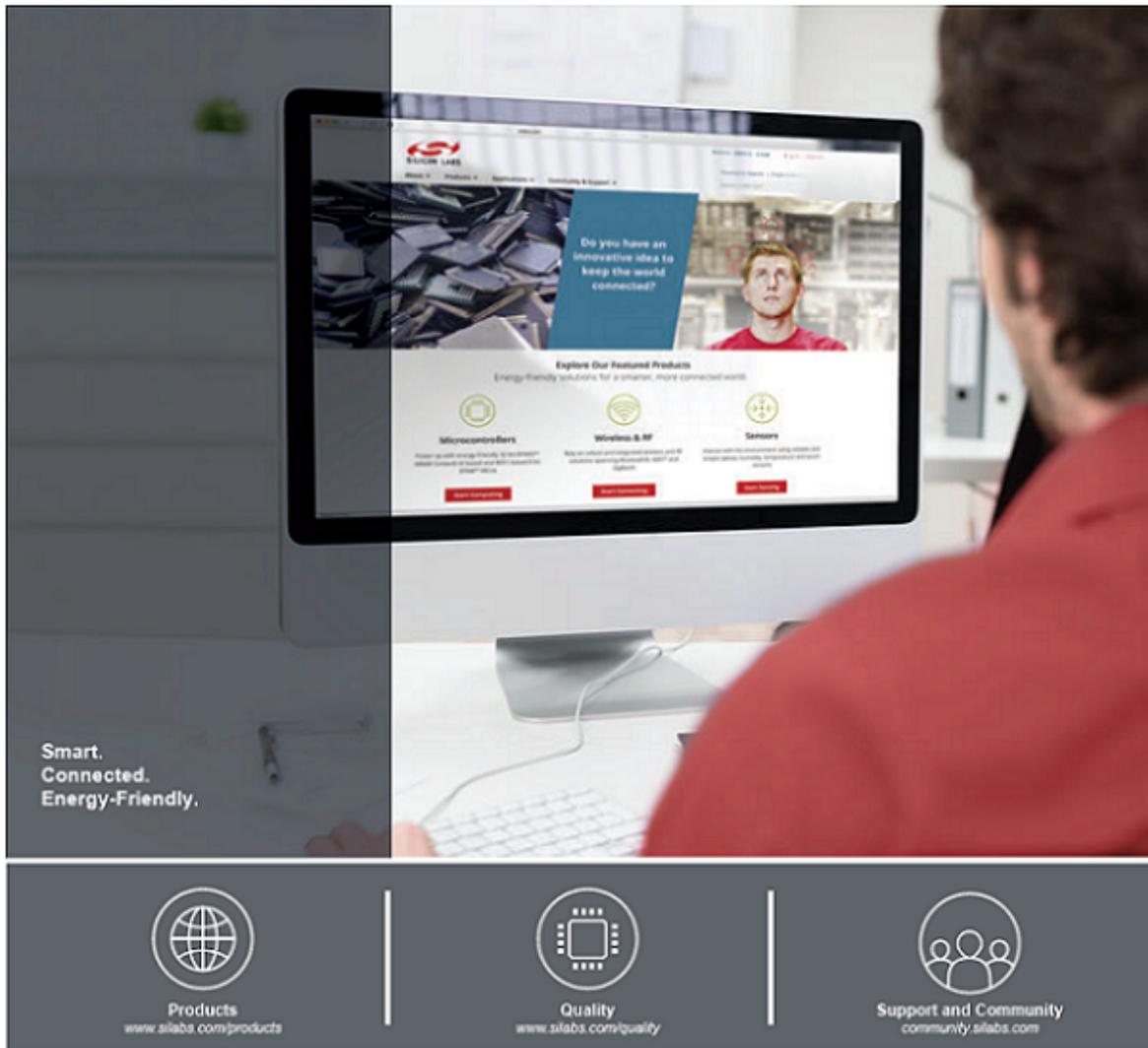
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Part Rev A2, TSMC Fabrication, ASECL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Accelerated Environment Stress Tests 32-TQFP-7x7							
Temp Cycle	JA104	3 lots, N=>25	Q049776	0/26	1	3 lots	Pass
	Cond C: -65°C to 150°C		Q049777	0/28	1		
	500 cycles		Q049778	0/25	1		

Notes:

- Parts are Pre-conditioned at MSL2/260°C

This report applies to the following part numbers:		
EFM8BB31F16G-C-QFP32	EFM8BB31F32G-D-QFP32R	EFM8LB10F16E-C-QFP32
EFM8BB31F16G-C-QFP32R	EFM8BB31F32I-D-QFP32	EFM8LB10F16E-C-QFP32R
EFM8BB31F16G-D-QFP32	EFM8BB31F32I-D-QFP32R	EFM8LB11F16E-C-QFP32
EFM8BB31F16G-D-QFP32R	EFM8BB31F64G-B-QFP32	EFM8LB11F16E-C-QFP32R
EFM8BB31F16I-C-QFP32	EFM8BB31F64G-B-QFP32R	EFM8LB11F32E-C-QFP32
EFM8BB31F16I-C-QFP32R	EFM8BB31F64G-C-QFP32	EFM8LB11F32E-C-QFP32R
EFM8BB31F16I-D-QFP32	EFM8BB31F64G-C-QFP32R	EFM8LB12F32E-C-QFP32
EFM8BB31F16I-D-QFP32R	EFM8BB31F64G-D-QFP32	EFM8LB12F32E-C-QFP32R
EFM8BB31F32G-B-QFP32	EFM8BB31F64G-D-QFP32R	EFM8LB12F64E-B-QFP32
EFM8BB31F32G-B-QFP32R	EFM8BB31F64I-C-QFP32	EFM8LB12F64E-B-QFP32R
EFM8BB31F32G-C-QFP32	EFM8BB31F64I-C-QFP32R	EFM8LB12F64E-C-QFP32
EFM8BB31F32G-C-QFP32R	EFM8BB31F64I-D-QFP32	EFM8LB12F64E-C-QFP32R
EFM8BB31F32G-D-QFP32	EFM8BB31F64I-D-QFP32R	



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**Silicon Laboratories Inc.**  
**400 West Cesar Chavez**  
**Austin, TX 78701**

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