



2405081530 Additional Assembly, Test and Ship Site for xGM240P & xGM210P Modules

PCN Issue Date: May 08, 2024

Effective Date: Aug 14, 2024

PCN Type: Assembly; Test

Description of Change

Silicon Labs is pleased to announce the successful qualification of STARS (STARS Microelectronics) as an additional assembly, test and ship site for BGM240P and MGM240P (xGM240P) & BGM210P and MGM210P (xGM210P) module production. There is no change in Test program. STARS is certified to ISO9001, ISO14001 and IATF 16949.

As of the effective date of this PCN, Silicon Labs will start assembling, testing and shipping xGM210P and xGM240P modules from STARS.

STARS Ship Address:
STARS Microelectronics (Thailand) PCL
Bang Pa-In Industrial Estate (I-EA-T Free Zone), 605-606 Moo 2, Klongjig, Bang Pa-In
Ayutthaya 13160, Thailand

Reason for Change

The additional assembly and test location will provide additional capacity for supply assurance.

Impact on Form, Fit, Function, Quality, Reliability

No change to Form, Fit, Function, Quality or Reliability.

Product Identification

Existing Part #
BGM210PA22JIA2
BGM210PA22JIA2R
BGM210PA32JIA2
BGM210PA32JIA2R
BGM210PB22JIA2
BGM210PB22JIA2R
BGM210PB32JIA2
BGM210PB32JIA2R
BGM210PBPRD1A2
BGM210PBPRD1A2R
BGM240PA22VNA3
BGM240PA22VNA3R
BGM240PA32VNA3
BGM240PA32VNA3R
BGM240PA32VNN3
BGM240PA32VNN3R
BGM240PB22VNA3
BGM240PB22VNA3R
BGM240PB32VNA3
BGM240PB32VNA3R
BGM240PB32VNN3
BGM240PB32VNN3R
MGM210PA22JIA2
MGM210PA22JIA2R
MGM210PA32JIA2
MGM210PA32JIA2R

MGM210PB22JIA2
MGM210PB22JIA2R
MGM210PB32JIA2
MGM210PB32JIA2R
MGM240PA22VNA3
MGM240PA22VNA3R
MGM240PA32VNA3
MGM240PA32VNA3R
MGM240PA32VNN3
MGM240PA32VNN3R
MGM240PB32VNA3
MGM240PB32VNA3R
MGM240PB32VNN3
MGM240PB32VNN3R
MM21PA3IP1612A2
MM21PA3IP1612A2R
MM21PA3IP1613A2
MM21PA3IP1613A2R

Last Date of Unchanged Product: Aug 14, 2024

Qualification Samples

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

Please refer to qualification report below.

BGM210P, MGM210P Qualification Report

BGM210P, MGM210P, Ryder China, USI Taiwan, Stars Thailand							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
Preconditioning	JESD22-A113 MSL3: 260°C 30°C / 60%RH / 192 Hr	1 lot, N=>10	Q046125	0/12	4	5 lots 0/90	Pass
			Q044122	0/24	3		
			Q046242	0/30	3		
			Q050079	0/12	5		
			Q050980	0/12	6		
Temp Cycle	JESD22-A104 Cond G: -40°C to 125°C 850 cycles	1 lot, N=>10	Q046207	0/10	1,4	4 lots 0/46	Pass
			Q044119	0/12	1,3		
			Q050132	0/12	1,5		
			Q051095	0/12	1,6		
Temp Cycle	JESD22-A104 Cond N: -40°C to 85°C 1500 cycles	1 lot, N=>10	Q044120	0/12	1,3	1 lot 0/12	Pass
Temp Humidity Bias	JESD22-A101 85°C, 85% RH 500 hours	1 lot, N=>25	Q046243	0/30	1, 2, 3	1 lot 0/30	Pass
Test Group C – Package Assembly Integrity Tests							
Mechanical Shock	JESD22-B110, Cond. B (1500g)	1 lot, N=>10	Q046221	0/10	4	4 lots 0/40	Pass
			Q044125	0/10	3		
			Q050123	0/10	5		
			Q051082	0/10	6		
Mechanical Vibration	JESD22-B103, Cond. 1 (20-2000Hz)	1 lot, N=>10	Q046222	0/10	4	4 lots 0/40	Pass
			Q044126	0/10	3		
			Q050124	0/10	5		
			Q051083	0/10	6		
Cleanliness Assessment	IPC-TM-650 2.3.28B	1 lot, N=>10	Q046223	0/10	4	4 lots 0/40	Pass
			Q044127	0/10	3		
			Q050131	0/10	5		
			Q051273	0/10	6		

Notes:

1. Parts are Pre-conditioned at MSL3/260°C
2. Additional stress test for BSH (Abbrev H3TRB)
3. Assembly in Ryder China
4. Assembly in USI Taiwan
5. Assembly in Ryder, China (KinWong PCB)
6. Assembly in Stars Microelectronics, Thailand

This report applies to the following part numbers:	
BGM210P	MGM210P

Approved by: Wilson Choy

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Prepared on: 25-Apr-24

xGM240P Qualification Report

W7104F1 - Module Product Qualification Report Record

BGM240P, MGM240P DELTA China, STARS Thailand							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
Preconditioning	JESD22-A113 MSL3: 260°C 30°C / 60%RH / 192 Hr	1 lot, N=>10	Q048516 Q050892	0/10 0/12	3 4	2 lots 0/22	Pass
Temp Cycle	JESD22-A104 Cond N: -40°C to 125°C 850 cycles	1 lot, N=>10	Q048517 Q050896	0/10 0/10	1,3 1,4	2 lots 0/20	Pass
Test Group C – Package Assembly Integrity Tests							
Mechanical Shock	JESD22-B110, Cond. B (1500g)	1 lot, N=>10	Q048518 Q050897	0/10 0/10	3 4	2 lots 0/20	Pass
Mechanical Vibration	JESD22-B103, Cond. 1 (20-2000Hz)	1 lot, N=>10	Q048519 Q050898	0/10 0/10	3 4	2 lots 0/20	Pass
Cleanliness Assessment	IPC-TM-650 2.3.28B	1 lot, N=>10	Q048520 Q050899	0/10 0/10	3 4	2 lots 0/20	Pass
Test Group E – Electrical Verification							
ESD-CDM	JS-002	1 lot, N=>3	Q048694 Q050893	0/3 0/3	2,3 4,5	250V 250V	Class C1 Class C1

Notes:

1. Parts are Pre-conditioned at MSL3/260°C
2. All pins passed at 500V except GPIO pins at 250V
3. Assembly in Delta China
4. Assembly in Stars Microelectronics Thailand
5. All pins passed up to 350V

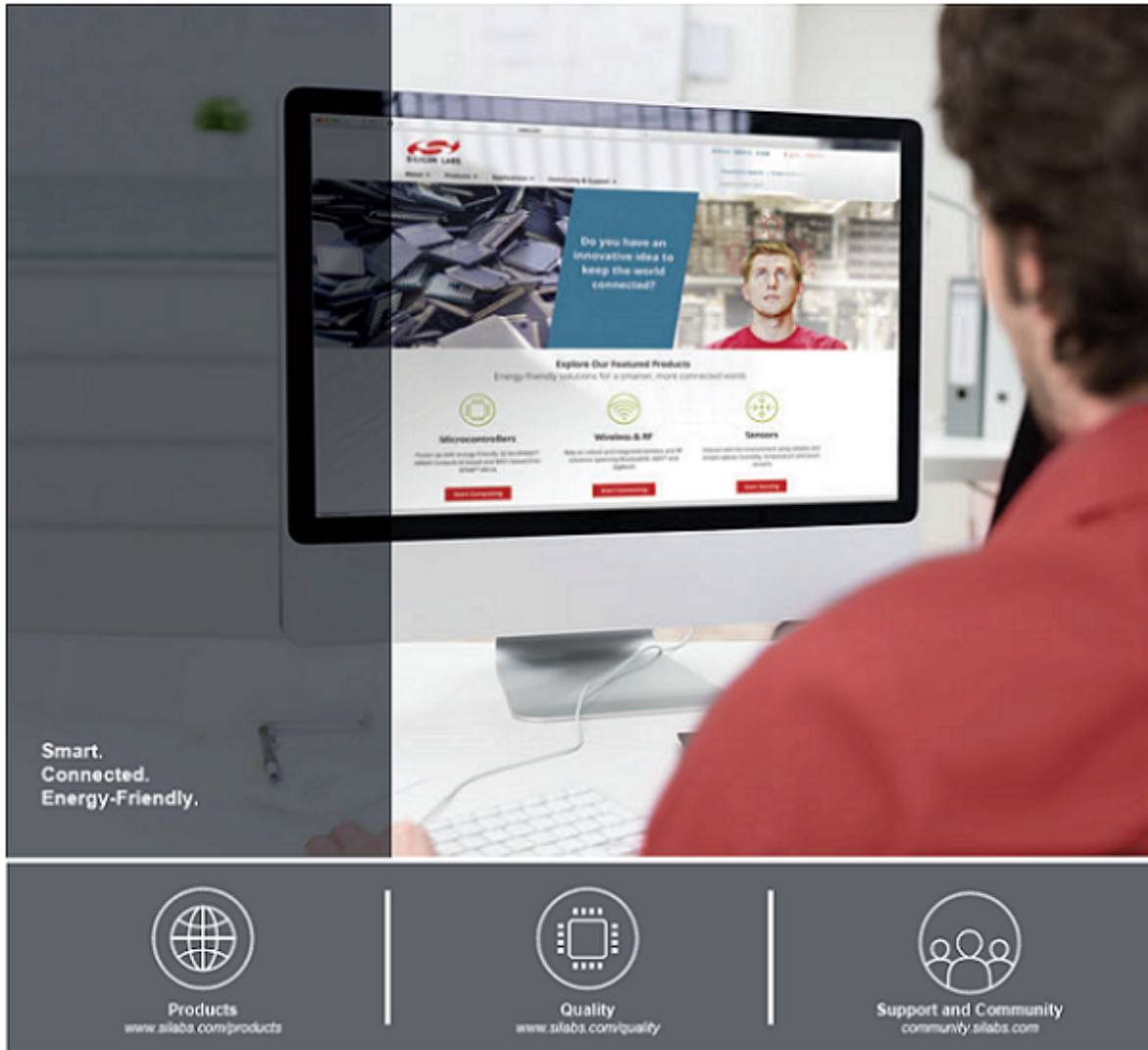
This report applies to the following part numbers:	
BGM240P	MGM240P

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Prepared on: 25-Apr-24



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