

Product Change Notification - GBNG-24WZVV475

Date:

25 Jul 2019

Product Category:

Others; Hot Swap Controller; Linear Regulators; Power MOSFET Drivers; Switching Regulators; Wireless IC; Driver / Interface ICs; Power Management - Power Switches; Power Management - PWM Controllers; Clock and Timing - Clock and Data Distribution; Power Management - System Supervisors/Voltage Detectors

Affected CPNs:



Notification subject:

CCBs 2784.002, 2784.003, 2784.004, 3910, 3910.001, 3911, 3911.001, 3914, and 3915: Urgent PCN: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, and 14/16/20L SOIC, packages.

Notification text:

PCN Status:

Urgent PCN notification.

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the files found in the Affected CPNs section above to see all listed items.

Please see attachments below for a categorized CPN list by package and site.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, and 14/16/20L SOIC, packages.

Due to unforeseen circumstances, that are out of Microchip's control, for some of the products affected full qualification will be made available at a date after shipment from a different location as Microchip plans to continue to fulfill orders by shipping product from other assembly locations as soon as possible as to not disrupt customer orders.

Pre-Change:

Assembled at UNIB assembly site.

Post Change:

Assembled at MMT, MTAI, LPI, and ANAP assembly sites.

Note: Please see categorized list attached below for affected catalog parts by site and package.

Pre and Post Change Summary:

	Pre-Change	Post Change								
Package	All	8/14/16L PDIP and 14/16L SOIC	20/28L SSOP	20L SOIC	16L SOIC					
Assembly Site	Unisem (B) Batam, Indonesia (UNIB)	Microchip Technology Thailand (Branch) (MMT)	Microchip Technology Thailand (HQ) (MTAI)	Amkor Technology Philippine (ANAP)	Lingsen Precision Industires, Taiwan. (LPI)					

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Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

Due to unforeseen business conditions the UNIB location will be discontinued by Unisem as an assembly site. Effective immediately.

Change Implementation Status:

MICDOCHID

In Progress

Estimated Qualification Completion Dates:

- 8/14/16 PDIP: Qualification completed.
- All remaining qualifications: October 2019.

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions. Also note that after the estimated first ship date guided customers may receive pre and post change parts.

Estimated First Ship Dates:

- 8/14/16L PDIP at MMT: August 7, 2019. Qualification Report attached.
- 20/28L SSOP at MTAI: September 20, 2019 for MIC2179-3.3YSM-TR and November 2019 for remainder
- 14/16L SOIC at MMT: September 20, 2019 for MIC5800YM-TR and 161-699102-4 and November 2019 for remainder.
- 16L SOIC at LPI: September 18, 2019 for MIC4469YWM, MIC4468ZWM-TR, MIC4468YWM-TR, MIC4468ZWM, MIC4469ZWM, MIC4468YWM, MIC4467YWM-TR, MIC4467YWM, MIC4469YWM-TR, MIC4467ZWM, MIC4467ZWM-TR and MIC4469ZWM-TR and November 2019 for remainder.
- 20L SOIC at ANAP: September 18, 2019 for MIC59P60YWM and November 2019 for remainder.

Microchip will make every attempt to complete full qualification prior to shipping from the respective assembly site but to ensure continuity of supply and because of the circumstances which are out of our control Microchip will ship some products prior to full qualification completion although we believe the risk is very low because the same packages are already qualified as other Microchip products at these locations.

Note: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Method to Identify Change:

Traceability code

Qualification Plan:

Please open the attachments included with this PCN labeled as PCN # Qual Plan.

Note: there are separate qualification plans for 20/28L SSOP at MTAI, 14/16L SOIC at MMT, 16L SOIC at LPI, and 20L SOIC at ANAP.

Qualification Report:

Please open the attachments included with this PCN labeled as PCN # Qual Report.

Note: Currently only the report for the 8/14/16L PDIP at MMT is available and attached. Reports that



are not attached will be made available upon request after they are available. Please review and correlate the attached parts affected list below to determine the package/site combinations to the catalog part number.

Revision History:

July 25, 2019: Issued urgent PCN notification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachment(s):

8 14 16L PDIP at MMT Qual Report.pdf

PCN GBNG-24WZVV475 14L 16L SOIC at MMT Qual Plan .pdf

PCN GBNG-24WZVV475 16L SOIC at LPI Qual Plan.pdf

PCN GBNG-24WZVV475 20L SOIC at ANAP Qual Plan.pdf

PCN GBNG-24WZVV475 20L 28L SSOP at MTAI Qual Plan.pdf

PCN GBNG-24WZVV475 Affected CPN.pdf

PCN GBNG-24WZVV475 Affected CPN.xlsx

Please contact your local <u>Microchip sales office</u> with questions or concerns regarding this notification.

Terms and Conditions:

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If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

GBNG-24WZVV475 - CCBs 2784.002, 2784.003, 2784.004, 3910, 3910.001, 3911, 3911.001, 3914, and 3915: Urgent PCN: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, and 14/16/20L SOIC, packages.

Affected Catalog Part Numbers (CPN)

MIC2595R-2YM-TR

MIC2589-2YM-TR

MICRF001YM-TR

MIC2182-5.0YM

MIC2182YM

MIC9131YM

MIC2537-1YM-TR

MIC38C43-1YM

SY100EL15LZG

SY100EL34LZG

MIC2186YM-TR

MIC2589-1YM

MIC2595R-2YM

MIC2589-1YM-TR

SY100EL34LZG-TR

SY100EL15LZG-TR

MIC2566-1YM

SPN860018Y

MIC2185YM-TR

MIC2589R-2YM

MICRF011YM-TR

MIC38HC44-1YM

MIC38HC45-1YM-TR

MIC5800YM

MIC38C42-1YM

MIC2184YM

MIC2184YM-TR

MIC2537-2YM-TR

MIC38C43-1YM-TR

MIC38C45-1YM-TR

MIC2546-2YM-TR

MIC2547-2YM

MIC2546-1YM-TR

MIC2562A-0YM-TR

SPN860018Y-TR

MIC2589-2YM

MIC2589R-1YM

MIC2589R-2YM-TR

MICRF009YM-TR

MICRF011YM

MIC2183YM-TR

MIC38HC42-1YM-TR

MIC2183YM

MIC2586R-2YM

SY100S834LZG-TR

MIC2566-0YM

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GBNG-24WZVV475 - CCBs 2784.002, 2784.003, 2784.004, 3910, 3910.001, 3911, 3911.001, 3914, and 3915: Urgent PCN: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, and 14/16/20L SOIC, packages. MIC4428 Y N MIC4428ZN MIC4429ZN MIC38C42YN MIC4469YN LM2574-3.3YN LP2951-02YN MIC4421ZN MIC4422AYN LM2575-5.0YN LM2575-3.3YN LM2575YN MIC4574-5.0YN Y30442D MIC4423YN MIC2172YN MIC3172YN MIC5158YN MIC4467ZN MICRF011YN MIC38HC43-1YN MIC4426YN MIC38C44YN MIC38C43YN MIC38C44-1YN MIC38C45YN LM2575-12YN MIC4425YN MIC4452YN MIC4424YN MIC38HC45YN MIC38HC44-1YN MIC4426ZN MIC4574-3.3YN MIC4574YN MIC4424ZN MIC4423ZN MIC2545A-2YN MIC4468ZN MICRF001YN MIC5822YN MIC4420YN LP2951-03YN MIC2545A-1YN MIC4421AZN LM2574-5.0YN LM2574YN MIC4420ZN MIC5013YN

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MIC2568-0YSM-TR

MIC2179-3.3YSM-TR

MIC2595-2YM-TR

MIC2589R-1YM-TR

MIC38HC44-1YM-TR

MIC38HC42-1YM

MIC5157YM-TR

MIC38C44-1YM-TR

MIC2537-1YM

MIC2561-0YM

MIC2561-1YM

MIC38C45-1YM

MIC2546-1YM

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MIC2546-2YM

MIC2562A-0YM

MIC2562A-1YM

MIC2562A-1YM

SY100EL34ZG-TR

MIC9130YM

MIC2595-2YM

MIC2595-1YM-TR

MIC2182YM-TR

MIC38HC43-1YM-TR

MIC5158YM-TR

MIC5800YM-TR

MIC9130YM-TR

MIC38C44-1YM

MIC38C42-1YM-TR

MIC2182-5.0YM-TR

MIC2537-2YM

MIC2561-1YM-TR

MIC2547-1YM

MIC2185YM

MIC2595R-1YM-TR

MICRF001YM

MICRF002YM-TR

MIC2182-3.3YM

MIC38HC45-1YM

MIC5158YM

MIC5157YM

MIC2182-3.3YM-TR

MIC2561-0YM-TR

161-699102-4

MIC2547-1YM-TR

MIC2562A-1YM-TR

SY100S834LZG

Affected Catalog Part Numbers (CPN)

			PCN_GE	BNG-24WZVV475		
MINT		8/14/16L PDIP	20/28L SSOP	14/16L SOIC	16LSOIC	20L SOIC
Mic24692N Mic217995M Mic2589R-1YM-TR Mic2468ZWM Mic59P60YWM-Mic5011YN Mic2563-NYSM Mic38Hc44-1YM-TR 835-5043-014 Mic5914YN Mic2563-1YSM Mic38Hc42-1YM Mic4646ZWMM Mic351565-5.0YN Mic2568-0YSM Mic3157YM-TR Mic4647WM-TR Mic427ZWM Mic31279 Mic2563-1YSM Mic32561-1YM Mic422ZWM-TR Mic422ZWM-TR Mic422ZWM Mic2563-1YSM Mic2561-1YM Mic442ZWM Mic422ZWM Mic2563-1YSM Mic2561-1YM Mic442ZWM Mic442ZWM Mic442ZWM Mic442ZWM Mic2462ZWM Mic2563-0YSM-TR Mic2561-1YM Mic446SYWM Mic446ZWM Mic446ZYM Mic2563-0YSM-TR Mic2562-1YM Mic46SYWM Mic2563-0YSM-TR Mic2562-0YM Mic2560-0YWM-TR Mic446ZYM Mic2563-0YSM-TR Mic2562-0YM Mic442ZWM Mic2563-0YSM-TR Mic2562-0YM Mic442ZWM Mic446ZYWM Mic442ZWM Mic2563-0YSM-TR Mic2562-0YM Mic442ZWM Mic446ZYWM Mic442ZWM Mic2563-0YSM-TR Mic2562-1YM Mic442ZWM Mic442ZWM Mic2563-0YSM-TR Mic2562-0YM Mic442ZWM Mic446ZYWM-TR Mic442ZWM Mic2563-0YSM-TR Mic2562-1YM Mic446ZYWM-TR Mic442ZWM Mic2575-3YM Mic303YM Mic303YM Mic303YM Mic313YM-TR Mic462ZWM-TR Mic466ZWM-TR Mic46GZWM-TR Mic46G		ММТ	MTAI	MMT	LPI	ANAP
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LM2574-3.3YN MIC2568-0YSM-TR MIC2562A-0YM MIC4425YWM		MIC5891YN	MIC2563A-1YSM	MIC38HC42-1YM	MIC4467ZWM	
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MIC4426ZN MIC2182-3.3YM-TR MIC4574-3.3YN MIC2561-0YM-TR MIC4574YN 161-699102-4	 					
MIC4574-3.3YN MIC2561-0YM-TR MIC4574YN 161-699102-4						
MIC4574YN 161-699102-4						
WIGCOTT THE TIL						
MIC4423ZN MIC2562A-1YM-TR						
MIC2545A-2YN SY100S834LZG						
MIC4468ZN SY100EL34LZG-TR			1			
MICRF001YN SY100EL15LZG-TR						
MIC5822YN MIC2566-1YM			1			
MIC4420YN SPN860018Y						
LP2951-03YN MIC2185YM-TR						
MIC2545A-1YN MIC2589R-2YM						

CCBs 2784.002-.004,3910,3910.001, 3911,3911.001,3914,3915 Urgent PCN: Discontinuance of UNIB assy site as a qualified loc for selected products available in 8/14/16L PDIP, 20/28L SSOP and 14/16/20L SOIC packages.

Affected Catalog Part Numbers (CPN)

		PCN_G	GBNG-24WZVV475		
Lead-count and Package	8/14/16L PDIP	20/28L SSOP	14/16L SOIC	16LSOIC	20L SOIC
Post Assembly Site	ммт	MTAI	ММТ	LPI	ANAP
(5	MIC4421AZN		MICRF011YM-TR		
Ž	LM2574-5.0YN		MIC38HC44-1YM		
<u>م</u>	LM2574YN		MIC38HC45-1YM-TR		
Part Numbers (CPNs)	MIC4420ZN		MIC5800YM		
S.	MIC5013YN		MIC38C42-1YM		
er	MIC38HC45-1YN		MIC2184YM		
dr [MIC38HC43YN		MIC2184YM-TR		
∐	MIC38HC42YN		MIC2537-2YM-TR		
	MIC5821YN		MIC38C43-1YM-TR		
	MIC5156-3.3YN		MIC38C45-1YM-TR		
<u> </u>	MIC5157YN		MIC2546-2YM-TR		
P	MIC4422YN		MIC2547-2YM		
۵۵	MIC4451YN		MIC2546-1YM-TR		
<u>0</u>	MIC4421AYN		MIC2562A-0YM-TR		
Catalog	MIC4422AZN		SPN860018Y-TR		
at	MIC2951-03YN		MIC2589-2YM		
	MIC4422ZN		MIC2589R-1YM		
	MIC5021YN		MIC2589R-2YM-TR		
	MIC5156YN		MICRF009YM-TR		
	MIC5015YN		MICRF011YM		
	MIC5800YN		MIC2183YM-TR		
	MIC4427YN		MIC38HC42-1YM-TR		
	LM2574-12YN		MIC2183YM		
	MIC1232NY		MIC2586R-2YM		
	MIC4429YN		SY100S834LZG-TR		
	MIC1832NY		MIC2566-0YM		
	MIC4421YN		MICRF002YM		
-	MIC38HC42-1YN		SY100EL34ZG		
	MIC38HC44YN		SY100EL57LZG		
			MIC2595-1YM		
			MIC2595R-1YM		
			MIC2595R-2YM-TR		
			MIC2589-2YM-TR		
			MICRF001YM-TR		
			MIC2182-5.0YM		
			MIC2182YM		
-			MIC9131YM		
			MIC2537-1YM-TR		
			MIC38C43-1YM		
			SY100EL15LZG		
			SY100EL34LZG		
			MIC2186YM-TR		
 			MIC2589-1YM		
}			MIC2595R-2YM		
 			MIC2589-1YM-TR		
			MICRF009YM		
}			MIC38HC43-1YM MIC9131YM-TR		
			MIC2186YM		



QUALIFICATION REPORT SUMMARY

PCN #: KSRA-21MVRA169

Date:

May 26, 2017

Qualification of MMT assembly site for selected Micrel products available in 20L PDIP package using CRM-1064L die attach and GE800 mold compound material. The 18L PDIP package will qualify by similarity at MMT assembly site.

Device Description:

Device	MIC59P60YN				
Mask#	20850				
Process	BCDM				

Package Information

Package Type	PDIP-20L
Package Body Size	300 mils
Package Code	G6X
MP Codes	208507G6XA01

Subcon Location	MMT (Thailand)
Lead frame	
Paddle size	160x200 mils
 Material 	CDA194
Surface	Ag Spot Plated
Treatment	None
Process	Stamped
Lead lock	Yes
Part Number	10102009
Wire	
 Material 	Au
Die Attach Epoxy	
Part Number	CRM-1064L
Conductive	Yes
Mold Compound	
Part Number	GE800
Lead finish	100% Matte Tin

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-174100818.000	TMPE217178950.210	1701C35
MMT-174100819.000	TMPE217178950.210	1701C36
MMT-174100820.000	TMPE217178950.210	1701E60

Qualification Data:

PACKAGE QUALIFICATION RESULTS							
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	96 HR Rej / Pass		COMMENTS	
UHAST	JESD22-A118	1701C35	MMT-174100818.000	0/82			
	Ta = +130°C/85%RH	1701C36	MMT-174100819.000	0/82			
		1701E60	MMT-174100820.000	0/82			
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	500 CYC Rej / Pass		COMMENTS	
TEMP CYCLE	JESD22-A104	1701C35	MMT-174100818.000	0/82			
	Ta = -65°C / +150°C	1701C36	MMT-174100819.000	0/82			
		1701E60	MMT-174100820.000	0/82			
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	1008 HR Rej / Pass		COMMENTS	
HTSL	JESD22-A103 Ta = +150°C	1701C35	MMT-174100818.000	0/50			
	1a - 1130 C	1701C36	MMT-174100819.000	0/50			
		1701E60	MMT-174100820.000	0/50			
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	Rej / Pass	Pass/Fail	COMMENTS	
Wire Bond Pull	Mil. Std 883, Method	1701C35	MMT-174100818.000	0/35 wires	Pass		
	2011	1701C36	MMT-174100819.000	0/35 wires	Pass		
		1701E60	MMT-174100820.000	0/35 wires	Pass		
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	Rej / Pass	Pass/Fail	COMMENTS	
Wire Bond Shear	AEC-Q100-001	1701C35	MMT-174100818.000	0/35 bonds	Pass		
		1701C36	MMT-174100819.000	0/35 bonds	Pass		
		1701E60	MMT-174100820.000	0/35 bonds	Pass		



QUALIFICATION PLAN SUMMARY

PCN #: GBNG-24WZVV475

Date: July 25, 2019

Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

Purpose: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

	Assembly site	MMT
	BD Number	BDM-002198
	MP Code (MPC)	238017D7XA04
	Part Number (CPN)	MIC2547-2YM
Misc.	MSL information	MSL-1
	Assembly Shipping Media (T/R, Tube/Tray)	Tube
	Base Quantity Multiple (BQM)	48 units
	Reliability Site	MTAI
	CCB No	3911 and 3911.001
	Paddle size	90 x160 mils
	Material	CDA194
	Surface	Ag Spot plated
Lead-Frame	Treatment	None
Leau-i Taille	Process	Stamped
	Lead-lock	Yes
	Part Number	10101603
	Lead Plating	Matte Tin
Bond Wire	Material	Au
Die Attach	Part Number	8390A
	Conductive	Yes
<u>MC</u>	Part Number	G600V
	PKG Type	SOIC
PKG	Pin/Ball Count	16
	PKG width/size	150 mils
	Die Thickness	15 mils
<u>Die</u>	Die Size	Die 1:83.46 x 39.37 mils Die 2:83.46 x 39.37 mils
	Fab Process (site)	BCD12

Note: The 14L SOIC will qualify by similarity.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Test Site	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	3	15	0 fails after TC	5	MTAI	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	3	15	0	5	MTAI	30 bonds from a minimum of 5 devices.
Wire Sweep		5	0	3	15	0		MTAI	Required for any reduction in wire bond thickness.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	MTAI	
HTSL (High Temp Storage Life)	+175 C for 504 hours. Electrical test pre and post stress at +25°C and hot temp.	45	5	1	50	0	25	MTAI Pre/Post test at UNIS	
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type; Electrical test pre and post stress at +25°C. MSL1 @ 260°C	231	15	3	738	0	15	MTAI Pre/Post test at UNIS	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	MTAI Pre/Post test at UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. Please decap/ inspect 5 units for anomalies.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Test Site	Special Instructions
Unbiased HAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C.	77	5	3	246	0	10	MTAI Pre/Post test at UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	MTAI Pre/Post test at UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.



QUALIFICATION PLAN SUMMARY

PCN #: GBNG-24WZVV475

Date: July 25, 2019

Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

Purpose: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

Lead-Frame Package/Die Data:

	Assembly site	LPI				
	BD Number	MIC4468Y				
	MP Code (MPC)	24807TD9XBA1				
	Part Number (CPN)	MIC4468YWM-TR				
Misc.	MSL information	MSL 2 (260)				
	Assembly Shipping Media (T/R, Tube/Tray)	Tube				
	Base Quantity Multiple (BQM)	1000				
	Reliability Site	MTAI				
	CCB No	3914				
	Paddle size	184x146 mil				
	Material	C194				
	DAP Surface Prep	Without Ag plating				
	Treatment	No				
Load Frama	Process	stamp				
<u>Lead-Frame</u>	Lead-lock	Yes				
	Part Number	09S001669S0				
	Lead Plating	Ag				
	Strip Size	0.7177x7.413 inch				
	Strip Density	14 units/strip				
Bond Wire	Material	Au				
Die Attach	Part Number	8340				
Die Attach	Conductive	Yes				
MC	Part Number	EME-G600				
	PKG Type	SOIC				
<u>PKG</u>	Pin/Ball Count	16L				
	PKG width/size	300mils				
	Die Thickness	12mils				
<u>Die</u>	Die Size	96x112mils				
	Fab Process (site)	Tempe/Gresham 8"				

Commented [CY1]: Please make modifications to this section as appropriate to accommodate unique packages, BGA, Modules, etc. You may also cut and paste this data into the qualification plan page 2 for convenience. Typically fill in the existing and new data/qual columns but if this is a new package or device only fill in one column (either existing or new report). If this is a change to an existing package or site but will QBS to a previous qual then please fill in all 3 columns to show what the existing BOM is, what the proposed new BOM will be, and what the existing qual report BOM is – note the new BOM and QBS qual report should match or a new qual may be required.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
Standard Pb- free Solderability	J-STD-002D; Perform 8 hour steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing. Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages.	22	5	1	27	> 95% lead coverage	5	UNIS	MTAI	SOIC	Standard Pb-free solderability is the requirement. SnPb solderability (backward solderability- SMD reflow soldering) is required for any plating related changes and highly recommended for other package BOM changes.
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	UNIS	MTAI	SOIC	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	UNIS	MTAI	SOIC	30 bonds from a min. 5 devices.
Wire Sweep		5	0	3	15	0		UNIS	MTAI	SOIC	Required for any reduction in wire bond thickness.
Physical Dimensions	Measure per JESD22 B100 and B108	10	0	3	30	0	5	UNIS	MTAI	SOIC	
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	UNIS	MTAI	SOIC	
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp.	45	5	1	50	0	10	UNIS	MTAI	SOIC	Must be in progress at time of package release to production, but completion is not required for release to production.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type; Electrical test pre and post stress at +25°C. MSL2 @ 260°C	231	15	3	738	0	15	UNIS	MTAI	SOIC	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	UNIS	MTAI	SOIC	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	UNIS	MTAI	SOIC	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	UNIS	MTAI	SOIC	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.



QUALIFICATION PLAN SUMMARY

PCN #: GBNG-24WZVV475

Date: July 25, 2019

Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

Purpose: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

Lead-Frame Package/Die Data:

	Assembly site	ATP
	BD Number	MIC59P60
	MP Code (MPC)	208507G5XA01
	Part Number (CPN)	MIC59P60YWM
Misc.	MSL information	MSL 2 (260)
	Assembly Shipping Media (T/R, Tube/Tray)	Tube
	Base Quantity Multiple (BQM)	38
	Reliability Site	MTAI
	CCB No	3915
	Paddle size	160x200
	Material	C194
	DAP Surface Prep	Ag plated
Lead-Frame	Treatment	None
<u>Leau-Fraille</u>	Process	Stamped
	Lead-lock	Yes
	Part Number	101310053
	Lead Plating	Spot Ag
Bond Wire	Material	Au
Die Attech	Part Number	8290
<u>Die Attach</u>	Conductive	No
<u>MC</u>	Part Number	G600
	PKG Type	SOIC
<u>PKG</u>	Pin/Ball Count	20L
	PKG width/size	300mils
	Die Thickness	12mils
<u>Die</u>	Die Size	139x142mils
	Fab Process (site)	Tempe 8"

Commented [CY1]: Please make modifications to this section as appropriate to accommodate unique packages, BGA, Modules, etc. You may also cut and paste this data into the qualification plan page 2 for convenience. Typically fill in the existing and new data/qual columns but if this is a new package or device only fill in one column (either existing or new report). If this is a change to an existing package or site but will QBS to a previous qual then please fill in all 3 columns to show what the existing BOM is, what the proposed new BOM will be, and what the existing qual report BOM is – note the new BOM and QBS qual report should match or a new qual may be required.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
Standard Pb- free Solderability	J-STD-002D; Perform 8 hour steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing. Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages.	22	5	1	27	> 95% lead coverage	5	UNIS	MTAI	SOIC	Standard Pb-free solderability is the requirement. SnPb solderability (backward solderability- SMD reflow soldering) is required for any plating related changes and highly recommended for other package BOM changes.
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	UNIS	MTAI	SOIC	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	UNIS	MTAI	SOIC	30 bonds from a min. 5 devices.
Wire Sweep		5	0	3	15	0		UNIS	MTAI	SOIC	Required for any reduction in wire bond thickness.
Physical Dimensions	Measure per JESD22 B100 and B108	10	0	3	30	0	5	UNIS	MTAI	SOIC	
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	UNIS	MTAI	SOIC	
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type; Electrical test pre and post stress at +25°C. MSL2 @ 260°C	231	15	3	738	0	15	UNIS	MTAI	SOIC	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	UNIS	MTAI	SOIC	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	UNIS	MTAI	SOIC	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	UNIS	MTAI	SOIC	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.



QUALIFICATION PLAN SUMMARY

PCN #: GBNG-24WZVV475

Date: July 25, 2019

Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

Purpose: Discontinuance of UNIB assembly site as a qualified location for selected products available in 8/14/16L PDIP, 20/28L SSOP, 14/16/20L SOIC, and 48L LQFP packages.

	Assembly site	MTAI
	BD Number	BDM-002194/A
	MP Code (MPC)	24816TN2XA01
	Part Number (CPN)	MIC2563A-0YSM-TR
Misc.	MSL	MSL-1/260C
	Assembly Shipping Media (T/R, Tube/Tray)	Tube
	Base Quantity Multiple (BQM)	47 units/tube
	Reliability Site	MTAI
	CCB No	3910 and 3910.001
	Paddle size	153x200 mils
	Material	CDA194
	Surface	Bare Cu
Lead-Frame	Treatment	None
Leau-Fraine	Process	Stamped
	Lead-lock	Yes
	Part Number	10102834
	Lead Plating	Matte Tin
Bond Wire	Material	Au
Dio Attach	Part Number	3280
Die Attach	Conductive	Yes
MC	Part Number	G600
	PKG Type	SSOP
<u>PKG</u>	Pin/Ball Count	28
	PKG width/size	209 mils
	Die Thickness	15 mils
<u>Die</u>	Die Size	137.01x79.13 mils
	Fab Process (site)	BCDSI

Note: The 20L SSOP will qualify by similarity.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Test Site	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	3	15	0 fails after TC	5	MTAI	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	3	15	0	5	MTAI	30 bonds from a minimum of 5 devices.
Wire Sweep		5	0	3	15	0		MTAI	Required for any reduction in wire bond thickness.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	MTAI	
HTSL (High Temp Storage Life)	+175 C for 504 hours. Electrical test pre and post stress at +25°C and hot temp.	45	5	1	50	0	25	MTAI Pre/Post test at UNIS	For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable)
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type; Electrical test pre and post stress at +25°C. MSL1 @ 260°C	231	15	3	738	0	15	MTAI Pre/Post test at UNIS	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	MTAI Pre/Post test at UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. Please decap/ inspect 5 units for anomalies.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Test Site	Special Instructions
Unbiased HAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C.	77	5	3	246	0	10	MTAI Pre/Post test at UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	MTAI Pre/Post test at UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.