



Product Change Notification / BLAS-21SMFQ723

Date:

22-Nov-2023

Product Category:

16-Bit - Microcontrollers and Digital Signal Controllers, 8-bit Microcontrollers, Analog to Digital Converters, Backlight LED Drivers, Battery Management and Fuel Gauges - Battery Chargers, CAN Controller, Capacitive Touch Sensors, Clock and Timing - Clock and Data Distribution, Clock and Timing - Clock Generation, Clock and Timing - High Speed Communication, CPU / System Supervisors, Digital Potentiometers, Digital Temperature Sensors, EL Backlight Driver ICs, Ethernet Controllers, Ethernet PHYs, General Purpose LED Drivers, Instrumentation Amplifier, Interface- Serial Peripherals, LIN Transceiver with Vreg, Linear Comparators, Linear Op Amps, Linear Regulators, Memory, Motor Drivers, Power Management - PMIC, Power Management - Power Switches, Power Management - PWM Controllers, Power Management - Terminators, Power MOSFET Drivers, Switching Regulators, Wireless IC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6462 Initial Notice: Qualification of UNIG as a new assembly site for various products available in Tube, Tray and Tape & Reel packing media.

Affected CPNs:

[BLAS-21SMFQ723_Affected_CPN_11222023.pdf](#)
[BLAS-21SMFQ723_Affected_CPN_11222023.csv](#)

Notification Text:

PCN Status:Initial Notification

PCN Type:Manufacturing Change

Microchip Parts Affected:Please open one of the files found in the Affected CPNs section.
Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change:Qualification of UNIG as a new assembly site for various products available in Tube, Tray and Tape & Reel packing media.

Pre and Post Change Summary:

	Pre Change	Post Change
Assembly Site	Unisem (M) Berhad Perak, Malaysia (UNIS)	Unisem Gopeng (UNIG)
Wire Material	Au	Au
Die Attach Material	8290	8290
Molding Compound Material	G770HCD	G770HCD
Lead-Frame Material	A194ESH	A194ESH

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve on-time delivery performance by qualifying UNIG as a new assembly site.

Change Implementation Status:In Progress

Estimated Qualification Completion Date:June 2024

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

	November 2023					>	June 2024				
Workweek	4	4	4	4	4		2	2	2	2	2
	4	5	6	7	8		2	3	4	5	6

Initial PCN Issue Date				X								
Qual Report Availability												X
Final PCN Issue Date												X

Method to Identify Change:Traceability code

Qualification Plan:

Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:November 22, 2023: Issued initial notification.

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

Attachments:

[PCN_BLAS-21SMFQ723 Qual Plan.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

MIC5399-GMYMX-T5
MIC5399-GMYMX-TR
MIC5399-MMYMX-T5
MIC5399-MMYMX-TR
MIC5399-SGYMX-T5
MIC5399-SGYMX-TR
MIC5399-SMYMX-T5
MIC5399-SMYMX-TR
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MIC5396-GMYMX-TR
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DSPIC33FJ64GP802-I/MMB21
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HA7612T-I/MM033
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MIC5335-SSYMT-TR
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MIC23031-4YMT-TR
MIC23031-AYMT-TR

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QUALIFICATION PLAN SUMMARY

PCN #: BLAS-21SMFQ723

**Date:
October 12, 2023**

Qualification of UNIG as a new assembly site for various products available in Tube, Tray and Tape & Reel packing media.

Purpose: Qualification of UNIG as a new assembly site for various products available in Tube, Tray and Tape & Reel packing media.

CCB No.: 6462

<u>Misc.</u>	Assembly site	UNIG
	BD Number	D-008111
	MP Code (MPC)	27807YHNAAA1
	Part Number (CPN)	MIC4605-1YMT-TR
	MSL information	MSL 1, 260°C
	Assembly Shipping Media (T/R, Tube/Tray)	T&R
	Base Quantity Multiple (BQM)	5000
	Reliability Site	UNIS
<u>Lead-Frame</u>	Paddle size	65x91mils
	Material	A194ESH
	DAP Surface Prep	Ag selective
	Treatment	No
	Process	Etch
	Lead-lock	Yes
	Part Number	40100183
	Lead Plating	Matte Sn
	Strip Size	70x250mm
	Strip Density	1444
<u>Bond Wire</u>	Material	Au
<u>Die Attach</u>	Part Number	8290
	Conductive	Yes
<u>MC</u>	Part Number	G770HCD
<u>PKG</u>	Package Type	UDFN
	Pin/Ball Count	10
	PKG width/size	2.5x2.5x0.6mm

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	Special Instructions
Standard Pb-free Solderability	J-STD-002D ; Perform 8 hour steam aging for Matte tin 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			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			30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5		5			30 bonds from a min. 5 devices.
Wire Sweep										Required for any reduction in wire bond thickness.
Physical Dimmensions	Measure per JESD22 B100 and B108	10	0	3	30		5			
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5			
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. MSL 1, 260°C	231	15	3	738	0	15	UNIG	UNIS	Spares should be properly identified. 77 parts from each lot to be used for HAST, uHAST, Temp Cycle test.
UHAST	+130°C/85% RH for 192hrs Electrical test pre and post stress at +25°C	77	5	3	246	0	10	UNIG	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 +125°C; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	UNIG	UNIS	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.