

Product Change Notification / BLAS-15MFGB667

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16-Aug-2023

Product Category:

Simple and Complex Programmable Logic

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6478 Initial Notice: Qualification of NSEB as an additional assembly site for selected ATF22LV10C, ATF22LV10CQZ, ATF22V10CQZ, ATF750CL and ATF750LVC device families available in 24L TSSOP (4.4mm) package.

Affected CPNs:

BLAS-15MFGB667_Affected_CPN_08162023.pdf BLAS-15MFGB667_Affected_CPN_08162023.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 NSEB as an additional assembly site for selected ATF22LV10C, ATF22LV10CQZ, ATF22LV10CQZ, ATF22V10CQZ, ATF750CL and ATF750LVC device families available in 24L TSSOP (4.4mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change					
	Lingsen Precision	Lingsen Precision	UTAC Thai Limited				
Assembly Site	Industries ITD		(UTL-2)				
(LPI)		(LPI)	(NSEB)				
Wire Material	Au	Au	Au				
Die Attach Material	CRM-1033BF	CRM-1033BF	8200T				
Molding Compound Material	G700	G700	G605L				
Lead-Frame Material	C7025	C7025	C7025				
Lead-Frame Paddle Size	118 x 217 mils	118 x 217 mils	118 x 217 mils				
Lead-Frame Drawing	See attached Pre and Post Change Comparison.						

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve on-time delivery performance by qualifying NSEB as an additional assembly site.

Change Implementation Status:In Progress

Estimated Qualification Completion Date:December 2023

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:

	August 2023				>	December 2023						
Workweek	3 1	3 2	3	3 4	3 5		48	49	5 0	5 1	5 2	5 3
Initial PCN Issue Date			Х									
Qual Report Availability											Х	
Final PCN Issue											Х	

Date
Qualification Plan: Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.
Revision History: August 16, 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-15MFGB667 Qual_Plan.pdf PCN_BLAS-15MFGB667 Pre and Post Change_Summary.pdf

Please contact your local Microchip sales office with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile, 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.

BLAS-15MFGB667 - CCB 6478 Initial Notice: Qualification of NSEB as an additional assembly site for selected ATF22LV10C, ATF22LV10CQZ, ATF22V10CQZ, ATF750CL and ATF750LVC device families available in 24L TSSOP (4.4mm) package.

Affected Catalog Part Numbers (CPN)

ATF22LV10C-10XU ATF22LV10CQZ-30XU-T ATF22LV10CQZ-30XU-T ATF22V10C-10XU ATF22V10CQZ-20XU-044 ATF750CL-15XU ATF750LVC-15XU

Date: Tuesday, August 15, 2023



QUALIFICATION PLAN SUMMARY

PCN #: BLAS-15MFGB667

Date: August 3, 2023

Qualification of NSEB as an additional assembly site for selected ATF22LV10C, ATF22LV10CQZ, ATF22V10C, ATF22V10CQZ, ATF750CL and ATF750LVC device families available in 24L TSSOP (4.4mm) package.

Purpose: Qualification of NSEB as an additional assembly site for

selected ATF22LV10C, ATF22LV10CQZ, ATF22V10C,

ATF22V10CQZ, ATF750CL and ATF750LVC device families

available in 24L TSSOP (4.4mm) package.

CCB #: 6478

	Assembly site	NSEB			
	BD Number	BD-001628-01			
	MP Code (MPC)	197117NSBC02			
Misc.	Part Number (CPN)	ATF750CL-15XU			
IVIISC.	MSL information	MSL 2			
	Assembly Shipping Media (T/R, Tube/Tray)	Tube			
	Base Quantity Multiple (BQM)	62 units/tube			
	Reliability Site	MPHIL			
	Paddle size	118x217			
	Material	C7025			
	DAP Surface Prep	Spot Plating			
	Treatment	Non-Rough			
<u>Lead-Frame</u>	Process	Etched			
<u>Leau-Frairie</u>	Lead-lock	No			
	Part Number	FI0058			
	Lead Plating	Matte Tin			
	Strip Size	50.8x210 mm			
	Strip Density	70			
Bond Wire	Material	Au			
Die Attach	Part Number	8200T			
DIE Attacii	Conductive	Yes			
<u>MC</u>	Part Number	G605L			
	Package Type	TSSOP			
<u>PKG</u>	Pin/Ball Count	24			
	PKG width/size	4.4mm			

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot	Qty of	Total	Fail Accept Qty	Est. Dur.	. ATE	REL Special Instructions
			(should be properly marked)	Lots	Units		Days	Test Site	Test Site
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		MPHIL 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		MPHII 30 bonds from a min 5 devices
	CDF-AEC-Q100-001	5	0	1	5		5		MPHIL 30 bonds from a min. 5 devices.
Wire Sweep									MPHIL Required for any reduction in wire bond thickness.
Physical Dimmensions	Measure per JESD22 B100 and B108	10	0	3	30		5		MPHIL
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5		MPHIL
Preconditioning - Required for surface mount devices	JESD22-4113. +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	231	15	3	738	0	15	MPHIL	MPHIL Sparres should be properly identified. 77 parts from each lot to be used for HAST, uHAST, Temp Cycle test.
HAST	JESD22-A110. +130°C/85% RH for 96 hours or 110°C/85%RH for 264 hours. Electrical test pre and post stress at +25°C and hot temp (85°C).	77	5	3	246	0	10	MPHIL	MPHIL Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	JESD22-A118. +130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	MPHIL	MPHIL Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	JESD22-A10465°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp (85°C); 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	MPHIL	MPHIL Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

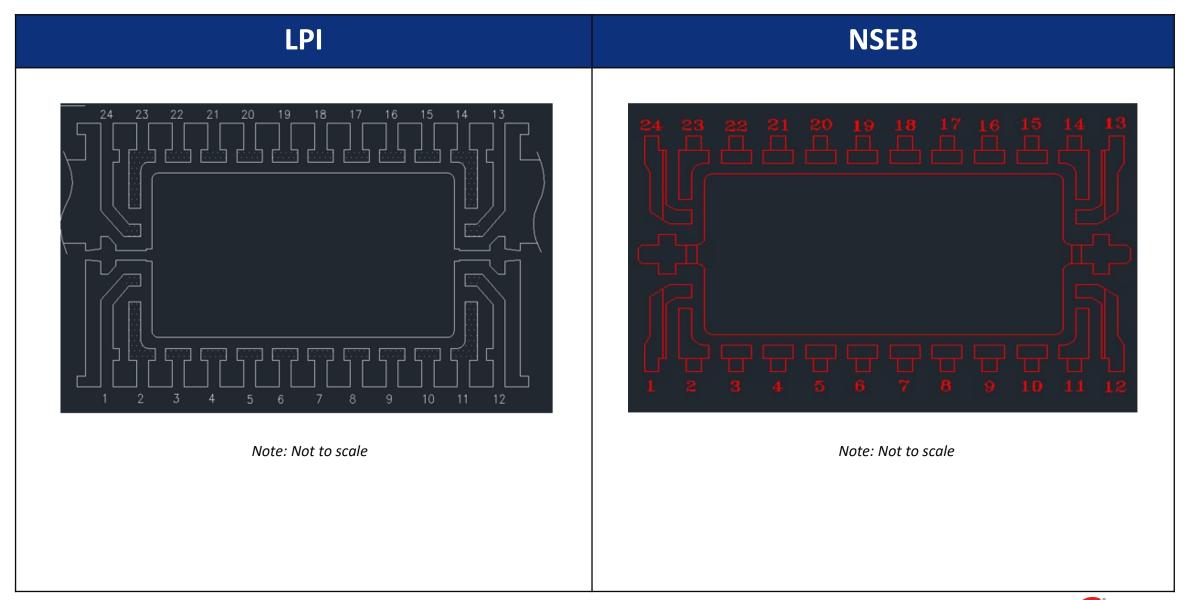
CCB 6478 Pre and Post Change Summary PCN# BLAS-15MFGB667



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



LEAD FRAME COMPARISON





TUBE COMPARISON

