



Product Change Notification / CAAN-17XIIF377

Date:

22-Feb-2024

Product Category:

Linear Regulators, Power Management - System Supervisors/Voltage Detectors

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6503 Final Notice: Qualification of GTBF as an additional assembly site for selected MCP11xT-xx, MCP170xT-xx, MCP170xRT-xx and MCP1703AT-xx device families available in 3L SOT-89 package

Affected CPNs:

[CAAN-17XIIF377_Affected_CPN_02222024.pdf](#)
[CAAN-17XIIF377_Affected_CPN_02222024.csv](#)

Notification Text:

PCN Status:Final 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 GTBF as an additional assembly site for selected MCP11xT-xx, MCP170xT-xx, MCP170xRT-xx and MCP1703AT-xx device families available in 3L SOT-89 package

Pre and Post Change Summary:

	Pre Change	Post Change	
Assembly Site	Lingsen Precision	Lingsen Precision	Great Team Backend

	Industries, LTD. (LPI)	Industries, LTD. (LPI)	Foundry (Dong Guan) Ltd. (GTBF)
Wire Material	Au	Au	Au
Backside Coat	8006NS	8006NS	8006NS
Die Attach Material	84-3J	84-3J	CRM1191AR-A
Molding Compound Material	G600	G600	CEL-9240HF10L8
Lead-Frame Material	KFC	KFC	KFC/LY89
Lead-Frame Paddle Size	79x63mils	79x63mils	72x81mils
Lead-Frame Design	See Pre and Post Change Summary		
DAP Surface Prep	Selective Ag Plating	Selective Ag Plating	Selective Ag Plating

Impacts to Data Sheet: Package Outline Drawing (POD) comparison.

		LPI			GTBF		
		Min	Nom	Max	Min	Nom	Max
Leads	N	3			3		
Pitch	e	1.45	1.50	1.55	1.50 BSC		
Outside Lead Pitch	e1	2.90	3.00	3.10	3.00 BSC		
Overall Height	A	1.40	1.50	1.60	1.41	1.50	1.59
Overall Width	H	3.94	-	4.25	3.97	4.15	4.24
Mold Package Width at Base	E	2.40	2.50	2.60	2.41	2.50	2.59
Overall Length	D	4.40	4.50	4.60	4.41	4.50	4.59
Tab Length (Option B)	D1B	1.40	1.60	1.75	1.65 BSC		
Foot Length	L	0.80	-	1.20	0.81	0.95	1.16
Lead Thickness	c	0.30	0.40	0.50	0.35	0.38	0.44
Lead 2 Width	b	0.41	0.47	0.53	0.43	0.48	0.54
Leads 1 & 3 Width	b1	0.36	0.42	0.48	0.43	0.48	0.54

Change Impact: None

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

Change Implementation Status: In Progress

Estimated First Ship Date: February 15, 2024 (date code: 2407)

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

Time Table Summary:

Workweek	August 2023					>	January 2024					February 2024			
	3 1	3 2	3 3	3 4	3 5		1	2	3	4	5	6	7	8	9
Initial PCN Issue Date					X										
Qual Report Availability										X					

Final PCN Issue Date								X			
Estimated Implementation Date									X		

Method to Identify Change:Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN_{PCN}_Qual_Report.

Revision History:August 30, 2023: Issued initial notification.

September 7, 2023: Re-issued initial notification to remove MCP1700T-1802E/MBV05.

January 23, 2024: Issued final notification. Updated post change paddle size from 71x79mils to 72x81mils and included backside coat details. Attached Qual Report and added the estimated first ship date on February 15, 2024.

February 22, 2024: Re-issued to correct the row descriptions of Impact to Datasheet.

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

Attachments:

[PCN_Caan-17XIIIF377_Qual Report.pdf](#)

[PCN_Caan-17XIIIF377 Pre_and_PostChange Summary.pdf](#)

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

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