



Product Change Notification / LIAL-06PFBM678

Date:

29-Sep-2021

Product Category:

USB Hubs

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4186.002 Final Notice: Qualification of MTAI as an additional assembly site for selected USB5742, USB5744 and USX5044 device families available in 56L VQFN (7x7x0.9mm) package.

Affected CPNs:

[LIAL-06PFBM678_Affected_CPN_09292021.pdf](#)
[LIAL-06PFBM678_Affected_CPN_09292021.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 MTAI as an additional assembly site for selected USB5742, USB5744 and USX5044 device families available in 56L VQFN (7x7x0.9mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change
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Assembly Site	ASE Inc. (ASE)	Amkor Assembly & Test (Shanghai) Co., LTD (ANAC)	ASE Inc. (ASE)	Amkor Assembly & Test (Shanghai) Co., LTD (ANAC)	Microchip Technology Thailand (HQ) (MTAI)
Wire material	CuPdAu	CuPdAu	CuPdAu	CuPdAu	CuPdAu
Die attach material	EN-4900F	CRM1085A	EN-4900F	CRM1085A	3280
Molding compound material	G631H	G631BQF	G631H	G631BQF	G700LTD
Lead frame material	C194*	C194*	C194*	C194*	A194*
Lead frame paddle size	197x197mils	189x189mils	197x197mils	189x189mils	188x188mils
Lead frame comparison	See attachment for pre and post change comparison				

***Note:** * C194, A194 or CDA194 Lead frame material are the same, it is just a MCHP internal labelling difference.

Impacts to Data Sheet: Yes, refer to POD comparison.

Feature	Dimension	56L VQFN 7x7 (2GX) at ASE/ANAC C04-234			56L VQFN 7x7 (2GX) at MTAI B04-112a		
		MIN	NOM	MAX	MIN	NOM	MAX
Number of Pins	n	56			56		
Pitch	e	0.40 BSC			0.40 REF		
Overall Height	A	0.80	0.85	0.90	0.80	0.90	1.00
Standoff	A1	0.00	0.02	0.05	0.00		0.05
Terminal Thickness	A3	0.20 REF			0.195	0.203	0.211
Overall Width	D	7.00 BSC			6.90	7.00	7.10
Exposed Pad Width	D2	4.50	4.60	4.70	4.50	4.60	4.70
Overall Length	E	7.00 BSC			6.90	7.00	7.10
Exposed Pad Length	E2	4.50	4.60	4.70	4.50	4.60	4.70
Terminal Width	b	0.15	0.20	0.30	0.20	0.25	0.30
Terminal Length	L	0.35	0.40	0.45	0.30	0.40	0.50
Terminal-to-Exposed Pad	K	0.70	-	-	0.80 REF		

Change Impact:None

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

Change Implementation Status:In Progress

Estimated First Ship Date:October 01, 2021 (date code: 2140)

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

Time Table Summary:

	September 2021	October 2021

Workweek	36	37	38	39	40	41	42	43	44
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_#_Qual_Report.

Revision History: **September 13, 2021:** Issued final notification. **September 29, 2021:** Re-issued final notification to correct the typo on the assembly site on the first column the POD comparison

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

Attachments:

[PCN_LIAL-06PFBM678_Qual_Report 1of2.pdf](#)
[PCN_LIAL-06PFBM678_Qual_Report 2of2.pdf](#)
[PCN_LIAL-06PFBM678 Pre and Post Change Summary.pdf](#)

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

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Affected Catalog Part Numbers (CPN)

USB5742/2GX01
USB5742/2G
USB5744/2G
USB5744/2GD01
USB5744/2GD02
USB5744/2GTA
USB5744/2GTB
USB5744/2GX01
USX5044/2G
USB5742-I/2GX01
USB5742-I/2G
USB5744-I/2G
USB5744-I/2GX01
USB5742T/2GX01
USB5742T/2G
USB5742T/2GC01
USB5744T/2G
USB5744T/2GD01
USB5744T/2GD02
USB5744T/2GTB
USB5744T/2GX01
USX5044T/2G
USB5742T-I/2G
USB5744T-I/2G
USB5744T-I/2GTA
USB5744T-I/2GTB
USB5744T-I/2GX01
USX5044T-I/2G