MICROCHIP

Product Change Notification / RMES-27BPWG940

Date:

22-Sep-2021

Product Category:

USB Hubs

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4186 Final Notice: Qualification of MTAI as an additional assembly site for USB58xx, USB59xx and USB70xx device families available in 100L VQFN (12X12X0.9mm) package.

Affected CPNs:

RMES-27BPWG940_Affected_CPN_09222021.pdf
RMES-27BPWG940_Affected_CPN_09222021.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 USB58xx, USB59xx and USB70xx device families available in 100L VQFN (12X12X0.9mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change

Assembly Site	ASE Inc. (ASE)	ASE Group Chung-Li (ASCL)	ASE Inc. (ASE)	ASE Group Chung-Li (ASCL)	Microchip Technology Thailand (HQ) (MTAI)
Wire material	CuPdAu	CuPdAu	CuPdAu	CuPdAu	CuPdAu
Die attach material	EN-4900F	EN-4900G	EN-4900F	EN-4900G	3280
Molding compound material	G631H	G700LA	G631H	G700LA	G700LTD
Lead frame material	C194	C7025	C194	C7025	EFTEC64
Lead frame comparison	See attachment for pre and post change comparison				

Impacts to Data Sheet:

Yes. Refer to Package Outline Drawing (POD) comparison.

Feature	Dimension	ASE / ASCL			MTAI		
		MIN	NOM	MAX	MIN	NOM	MAX
Number of Pins	n		100			100	
Pitch	e		0.40 BSC			0.40 BSC	
Overall Height	A	0.80	0.85	0.90	0.80	0.90	1.00
Standoff	A1	0.00	0.020	0.05	0.00		0.05
Terminal Thickness	A3		0.203 REF		0.195	0.203	0.211
Overall Width	D		12.00 BSC		11.90	12.00	12.10
Exposed Pad Width	D2	7.90	8.00	8.10	7.90	8.00	8.10
Overall Length	E		12.00 BSC		11.90	12.00	12.10
Exposed Pad Length	E2	7.90	8.00	8.10	7.90	8.00	8.10
Terminal Width	b	0.15	0.20	0.25	0.15	0.20	0.25
Terminal Length	L	0.50	0.60	0.70	0.50	0.60	0.70
Terminal-to-Exposed Pad	K	1.30	-	'-		1.40 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: September 14, 2021 (date code: 2138)

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

Time Table Summary:

	July 2021					August 2021				September 2021				
Workweek	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Initial PCN Issue Date					X									

Qual Report Availability						X								
Final PCN Issue Date						X								
Estimated first ship 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:July 28, 2021: Issued initial notification.**August 12, 2021:** Issued final notification. Attached the qualification report and added estimated first ship date by September 14, 2021 **September 22, 2021.** Re-issued final notification due to updated scope. Excluded the following CPNs in affected CPN list USB5807T-I/KD, USB5816CT/KDH02, USB5807CT/KDH01, USB5816CT/KD, USB5816CT/KDH02, USB5816CT/KD, USB5807CT/KDH01, USB5807CT/KD, USB5807C-I/KD, USB5807CT-I/KD, USB5906CT/KD, USB5906C/KD, USB5906CT/KD, USB7002-I/KDXVAO.

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

Attachments:

PCN_RMES-27BPWG940_Qual_Report.pdf
PCN_RMES-27BPWG940_Pre and Post Change_Summary.pdf

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

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