

Product Change Notification / KSRA-13AKNI696

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20-Nov-2020

Product Category:

8-bit Microcontrollers, Capacitive Touch Sensors, Touch Controllers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4440 and 4440.001 Initial Notice: Qualification of MMT as an additional assembly site for selected MITCH112. MITCH180, PIC10xxxx and PIC12xxxx products available in 8L DFN (3x3x0.9mm and 2x3x0.9mm) package.

Affected CPNs:

KSRA-13AKNI696_Affected_CPN_11202020.pdf KSRA-13AKNI696_Affected_CPN_11202020.csv

Notification Text:

PCN Status:

Initial notification

PCN Type: Manufacturing Change

Microchip Parts Affected: Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change: Qualification of MMT as an additional assembly site for selected MITCH112. MITCH180, PIC10xxxx and PIC12xxxx products available in 8L DFN (3x3x0.9mm and 2x3x0.9mm) package.

Pre Change:

Assembled at NSEB using gold (Au) or palladium coated copper wire with gold flash (CuPdAu) bondwire, CRM1076DJ or 8600 die attach, G770HCD and G700LTD mold compound, EFTEC-64T or C194 lead frame material.

Post Change:

Assembled at NSEB using gold (Au) or palladium coated copper wire with gold flash (CuPdAu) bondwire, CRM1076DJ or 8600 die attach, G770HCD and G700LTD mold compound, EFTEC-64T or C194 lead frame material.

Assembled at MMT using palladium coated copper wire with gold flash (CuPdAu) bondwire, 3280 die attach, G700LTD mold compound and C194 lead frame material.

Pre and Post Change Summary:

	Pre	Change	Post Change				
Assembly Site	UTAC Thai Limited LTD. (NSEB)		UTAC Thai Liı (NSE		Microchip Technology Thailand (Branch) / MMT		
Wire material	Au	CuPdAu	Au	CuPdAu	CuPdAu		
Die attach material	CRM1076DJ 8600		CRM1076DJ	8600	3280		
Molding compound material	G770HCD	G700LTD	G770HCD	G700LTD	G700LTD		
Lead frame material	EFTEC-64T	C194	EFTEC-64T	C194	C194		
Lead frame design	See attached Pre and Post Change						

Impacts to Data Sheet: None

Change Impact:None

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

Change Implementation Status:In Progress

Estimated Qualification Completion Date: January 2021

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 2020			→	January 2021						
Workweek	45	46	47	48	49		01	02	03	04	05
Initial PCN Issue Date			Х								
Qual Report Availability							Х				
Final PCN Issue Date							Х				

Method to Identify Change: Traceability code

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

Revision History:November 20, 2020: 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_KSRA-13AKNI696_Pre and Post Change Summary.pdf PCN_KSRA-13AKNI696_Qual_Plan.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</u>, <u>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.

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Affected Catalog Part Numbers (CPN)

PIC12F1822-E/MF

PIC12F1822-I/MF043

PIC12F1822-I/MF

PIC12F1822T-I/MF

PIC12F1822T-E/MF

PIC12LF1822-E/MF

PIC12LF1822-I/MF

PIC12LF1822T-I/MF

PIC12F1840-E/MF

MTCH810-I/MF

PIC12F1840-I/MF

PIC12F1840-H/MF

MTCH810T-I/MF

PIC12F1840T-I/MF

PIC12F1840T-E/MF

PIC12LF1840-E/MF

MTCH112-I/MF

PIC12LF1840-I/MF

MTCH112T-I/MF

PIC12LF1840T-I/MF

PIC12F1501-E/MF

PIC12F1501-I/MF

PIC12F1501T-I/MF

PIC12F1501T-E/MF

PIC12LF1501-E/MF

PIC12LF1501-I/MF

PIC12F1612-E/MF

PIC12F1612-I/MF

PIC12LF1612-E/MF

PIC12F1571-E/MF

PIC12F1572-E/MF

PIC12F1572-E/MFC02

PIC12F1571-I/MF059

PIC12F1571-I/MF

PIC12F1572-I/MF

PIC12F1571T-I/MF059

PIC12F1571T-I/MF

PIC12F1572T-I/MF

PIC12F1571T-E/MF

PIC12F1572T-E/MF

PIC12F1572T-E/MFC02

PIC12LF1571-E/MF

PIC12LF1572-E/MF

PIC12LF1571-I/MF

PIC12LF1572-I/MF

PIC12LF1572T-I/MF

Date: Thursday, November 19, 2020

KSRA-13AKNI696 - CCB 4440 and 4440.001 Initial Notice: Qualification of MMT as an additional assembly site for selected MITCH112. MITCH180, PIC10xxxx and PIC12xxxx products available in 8L DFN (3x3x0.9mm and 2x3x0.9mm) package. PIC12LF1572T-I/MFSIS PIC10F322-E/MC PIC10F322-I/MC PIC10F322T-I/MC PIC10F320-E/MC PIC10F320-I/MC PIC10F320T-I/MC PIC10LF322-E/MC PIC10LF322-I/MC PIC10LF322T-I/MC PIC10LF320-E/MC PIC10LF320-I/MC PIC10LF320T-I/MC PIC12F1501-E/MC PIC12F1501-I/MC PIC12F1501T-I/MC PIC12LF1501-E/MC PIC12LF1501-I/MC020 PIC12LF1501-I/MC PIC12LF1501T-I/MC020 PIC12LF1501T-I/MC021 PIC12LF1501T-I/MC PIC12LF1501T-E/MC

Date: Thursday, November 19, 2020

CCB 4440 and 4440.001 Pre and Post Change Summary PCN #: KSRA-13AKNI696

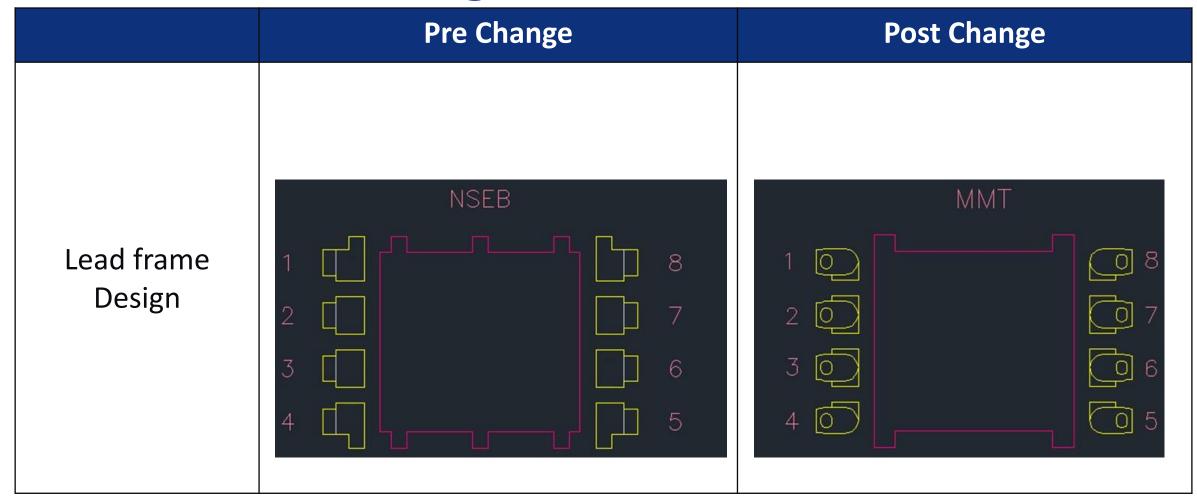


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Qualification of MMT as an additional assembly site for selected MITCH112. MITCH180, PIC10xxxx and PIC12xxxx products available in 8L DFN (3x3x0.9mm and 2x3x0.9mm) package.

Pre and Post Change







QUALIFICATION PLAN SUMMARY

PCN #: KSRA-13AKNI696

Date October 29, 2020

Qualification of MMT as an additional assembly site for selected MITCH112, MITCH180, PIC10xxxx and PIC12xxxx products available in 8L DFN (3x3x0.9mm and 2x3x0.9mm) package.

Purpose: Qualification of MMT as an additional assembly site for selected MITCH112, MITCH180, PIC10xxxx and PIC12xxxx products available in 8L DFN (3x3x0.9mm and 2x3x0.9mm) package.

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	Assembly site	MMT
	BD Number	BDM-002698
	MP Code (MPC)	LEBD24A7XB04
	Part Number (CPN)	PIC12F1822-E/MF
56'	MSL information	MSL-1@260C
<u>Misc.</u>	Assembly Shipping Media (T/R, Tube/Tray)	Tube
	Base Quantity Multiple (BQM)	120
	Reliability Site	MTAI
	CCB No	4440 and 4440.001
	Paddle size	102x71
	Material	C194
	DAP Surface Prep	Bare Cu
	Treatment	ВОТ
Load Eromo	Process	Etched
<u>Lead-Frame</u>	Lead-lock	Yes
	Part Number	10100851
	Lead Plating	Matte Tin
	Strip Size	250x70mm
	Strip Density	1170 units/Strip
Bond Wire	Material	CuPdAu
Die Attach	Part Number	3280
	Conductive	Yes
MC	Part Number	G700
	PKG Type	DFN
<u>PKG</u>	Pin/Ball Count	8
	PKG width/size	3x3x0.9mm
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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	Special Instructions
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.
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. and hot MSL-1@260	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, uHAST, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours Electrical test pre and post stress at +25°C and hot temp.Max temp testing at 125C.	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Preconditioning.
UHAST	+130°C/85% RH for 96 hrs Electrical test pre and post stress at +25°C Max temp testing at 125C.	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Preconditioning.