



Product Change Notification / LIAL-26JIWI938

Date:

04-Jul-2022

Product Category:

Wireless IC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5172 Initial Notice: Qualification of UTL as a new assembly site for MICRF112YMU-TR catalog part number (CPN) available in 10L X2DFN (2x2x0.4mm) package.

Affected CPNs:

[LIAL-26JIWI938_Affected_CPN_07042022.pdf](#)
[LIAL-26JIWI938_Affected_CPN_07042022.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 UTL as a new assembly site for MICRF112YMU-TR catalog part number (CPN) available in 10L X2DFN (2x2x0.4mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change

Method to Identify Change:Traceability code

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

Revision History:July 4, 2022: 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_LIAL-26JIWI938_Qual Plan.pdf](#)

[PCN_LIAL-26JIWI938_Pre and Post Change Summary.pdf](#)

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

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MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: LIAL-26JIWI938

Date

June 23, 2022

**Qualification of UTL as a new assembly site for
MICRF112YMU-TR catalog part number (CPN)
available in 10L X2DFN (2x2x0.4mm) package.**

Purpose: Qualification of UTL as a new assembly site for MICRF112YMU-TR catalog part number (CPN) available in 10L X2DFN (2x2x0.4mm) package.

<u>Misc.</u>	Assembly site	UTL
	BD Number	BD-000783 (01)
	MP Code (MPC)	UAAA1YK9AA01
	Part Number (CPN)	MICRF112YMU-TR
	MSL information	MSL 1, 260C
	Assembly Shipping Media (T/R, Tube/Tray)	T&R
	Base Quantity Multiple (BQM)	5000
	Reliability Site	SJO
	CCB No.	5172
<u>Lead-Frame</u>	Paddle size	51 x 67mils (1.3x1.7 mm)
	Material	C194
	DAP Surface Prep	PPF
	Treatment	No
	Process	Etched
	Lead-lock	Yes
	Part Number	FRxxxx
	Lead Plating	NiPdAu
	Strip Size	70x250 mm
	Strip Density	2470
<u>Bond Wire</u>	Material	Au
<u>Die Attach</u>	Part Number	558-2C31
	Conductive	Yes
<u>MC</u>	Part Number	G700LTD
<u>PKG</u>	PKG Type	X2DFN (xDFN)
	Pin/Ball Count	10
	PKG width/size	2x2x0.4mm

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	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
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	Unisem	SJO	X2DFN	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	Unisem	SJO	X2DFN	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	Unisem	SJO	X2DFN	30 bonds from a min. 5 devices.
Bond Line Thickness (BLT) robustness assessment						>0.5 mils		Unisem	SJO	X2DFN	
Wire Sweep								Unisem	SJO	X2DFN	Required for any reduction in wire bond thickness.
Physical Dimensions	Measure per JESD22 B100 and B108	10	0	3	30	0	5	Unisem	SJO	X2DFN	

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	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	Unisem	SJO	X2DFN	
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 +85°C.. MSL 1, 260°C	231	15	3	738	0	15	Unisem	SJO	X2DFN	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 or 110°C/85%RH for 264 hours. Electrical test pre and post stress at +25°C and +85°C	77	5	3	246	0	10	Unisem	SJO	X2DFN	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	+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	Unisem	SJO	X2DFN	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

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	ATE Test Site	REL Test Site	Pkg. Type	Special Instructions
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at room temp and +85°C; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	Unisem	SJO	X2DFN	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.).

CCB#: 5172
Pre and Post Change Summary
PCN #:LIAL-26JIWI938

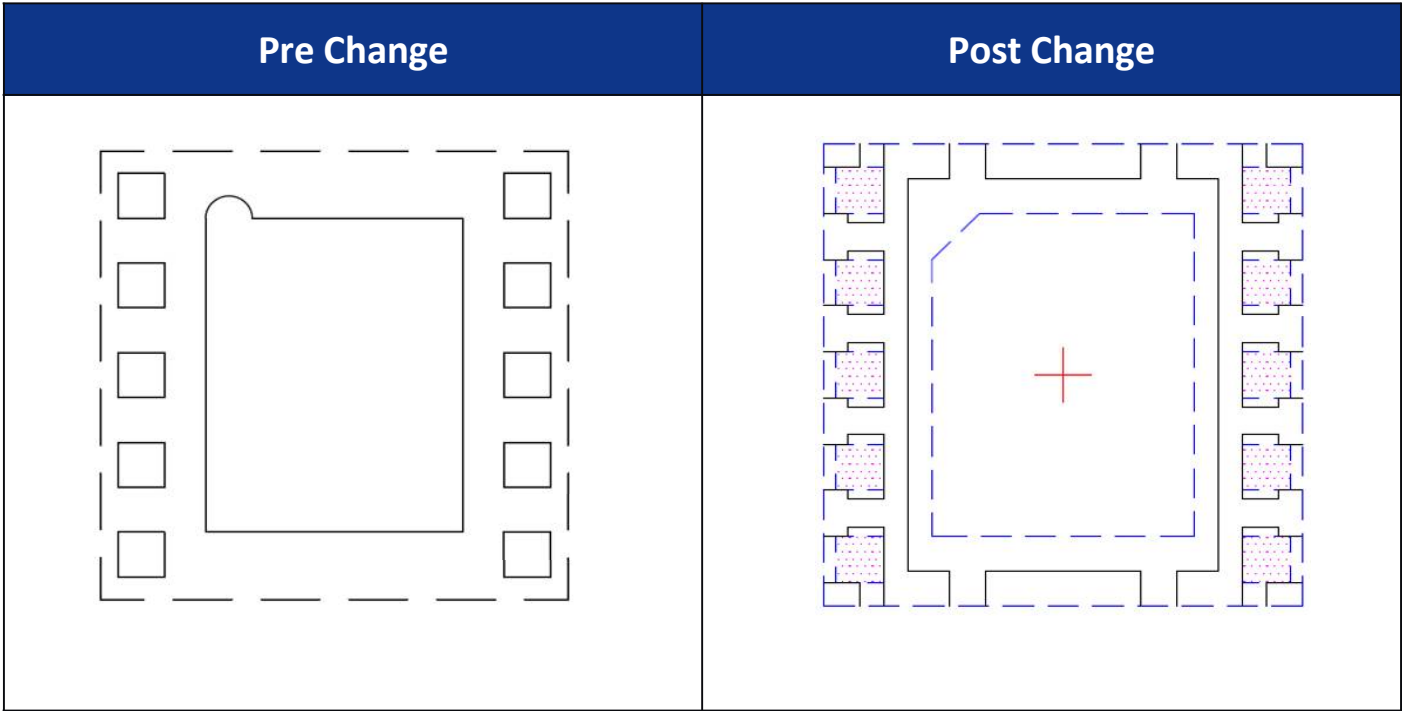


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Pre and Post Change Comparison



LIAL-26JIWI938 - CCB 5172 Initial Notice: Qualification of UTL as a new assembly site for MICRF112YMU-TR

Affected Catalog Part Numbers(CPN)

MICRF112YMU-TR