



Product Change Notification - LIAL-03ASLT650

Date:

25 Jun 2018

Product Category:

16-Bit - Microcontrollers and Digital Signal Controllers; Ethernet Controllers; 8-bit PIC Microcontrollers

Affected CPNs:**Notification subject:**

CCB 3221, 3221.001-3221.003 Final Notice: Qualification of MMT as an additional assembly site for selected products of 0.25um TSMC wafer technology available in 28L QFN-S, 64L, 44L and 28L QFN packages.

Notification text:**PCN Status:**

Final 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 products of 0.25um TSMC wafer technology available in 28L QFN-S, 64L, 44L and 28L QFN packages.

Pre Change:

Assembled at MTAI assembly site using gold (Au) wire.

Post Change:

Assembled at MTAI assembly site using gold (Au) wire and MMT assembly site using palladium coated copper wire with gold flash (CuPdAu).

Pre and Post Change Summary:

	Pre Change	Post Change	
Assembly Site	Microchip Technology Thailand HQ (MTAI)	Microchip Technology Thailand HQ (MTAI)	Microchip Technology Thailand Branch (MMT)
Wire material	Au	Au	CuPdAu
Die attach material	3280	3280	
Molding compound material	G700LTD	G700LTD	
Lead frame material	C194	C194	

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 using palladium coated copper wire with gold flash (CuPdAu).

Change Implementation Status:



In Progress

Estimated First Ship Date:

July 25, 2018(date code: 1830)

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

Time Table Summary:

Workweek	January 2018					->	June 2018					July 2018				
	01	02	03	04	05		22	23	24	25	26	27	28	29	30	31
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_#_Qual Report.

Revision History:

January 16, 2018: Issued initial notification.

June 25, 2018: Issued final notification. Attached the qualification report. Provided estimated first ship date to be on July 25, 2018

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

Attachment(s):

[PCN_LIAL-03ASLT650_QUAL_REPORT.pdf](#)

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QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN#: LIAL-03ASLT650

Date
June 06, 2018

Qualification of MMT as an additional assembly site for selected products of 0.25um TSMC wafer technology available in 64L QFN package. The selected products available in 28L QFN-S, 44L QFN and 28L QFN packages will be qualify by similarity(QBS).



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PACKAGE QUALIFICATION REPORT

Purpose	Qualification of MMT as an additional assembly site for selected products of 0.25um TSMC wafer technology available in 64L QFN package. The selected products available in 28L QFN-S, 44L QFN and 28L QFN packages will be qualify by similarity(QBS).
CN	ES165012
QUAL ID	Q18062
MP CODE	YGAY14R4XAXF
Part No.	PIC24FJ64GA106-E/MR
Bonding No.	BDM-001586 Rev. A
CCB No.	3221 and 3221.001-3221-003
<u>Package</u>	
Type	64L QFN
Package size	9x9x0.9 mm
Die thickness	11 mils
Die size	175.90 x 189.70 mils
<u>Lead Frame</u>	
Paddle size	291 x 291 mils
Material	C194
Surface	Bare Cu
Process	Etched
Lead Lock	No
Part Number	10106410
Treatment	BOT
<u>Material</u>	
Epoxy	3280
Wire	CuPdAu
Mold Compound	G700LTD
Plating Composition	Matte Tin



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PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-185200051.000	TC03918458923.200	1812A0T
MMT-185200052.000	TC03918458923.220	1812A0U
MMT-185200053.000	TC03918458923.210	1812A0V

Result

Pass Fail

64L QFN (9x9 x0.9 mm) assembled by MMT pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020D standard.

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
Moisture/Reflow Sensitivity Classification Test (At MSL Level 1)	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020D)	IPC/JEDEC C J-STD-020D	135	0/135	Pass	
<u>Precondition Prior Perform Reliability Tests</u> (At MSL Level 1)	Electrical Test: +25°C,85°C and 125°C System: J750 Bake 150°C, 24 hrs System: CHINEE 85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243 Electrical Test: +25°C,85°C and 125°C System: J750	JESD22A113	693(0)	693 693 693 0/693	 Pass	Good Devices

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System: TABAI ESPEC TSA-70H Electrical Test: + 85°C and 125°C System: J750 Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)	JESD22A104	231(0)	231 0/231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot
			15 (0)	0/15	Pass	
			15 (0)	0/15	Pass	
UNBIASEDHAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X Electrical Test: +25°C System: J750	JESD22-A118	231(0)	231 0/231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 2.5 Volts System: HAST 6000X Electrical Test: + 25°C ,85°C and 125°C System: J750	JESD22-A110	231(0)	231 0/231	Pass	Parts had been pre-conditioned at 260°C 77 units / lot
				231		

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	JESD22A103		45		45 units
	Electrical Test: +25°C ,85°C and 125°C System: J750		45(0)	0/45	Pass	
Solderability Temp 215°C	Steam Aging: Temp 93°C,8Hrs System: SAS-3000 Solder Dipping: Solder Temp 215°C Solder material: SnPb Sn63Pb37 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	J-STD-002	22 (0)	22 22 0/22	Pass	
Solderability Temp 245°C	Steam Aging: Temp 93°C,8Hrs System: SAS-3000 Solder Dipping: Solder Temp 245°C Solder Material: Pb Free Sn 95.5Ag3.9Cu0.6 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	J-STD-002	22 (0)	22 22 0/22	Pass	
Physical Dimensions	Physical Dimension, 10 units / lot	JESD22-B100/B108	30(0) Units	0/30	Pass	
Bond Strength Data Assembly	Wire Pull (> 2.5 grams)	M2011	30 (0) Wires	0/30	Pass	
	Bond Shear (>15.00 grams)	JESD22B116	30 (0) bonds	0/30	Pass	

LIAL-03ASL 3221.001-: 64L

44L and 28L QFN packages.

Affected Catalog Part Numbers(CPN)

DSPIC33FJ06GS102A-E/MM
DSPIC33FJ06GS102A-I/MM
DSPIC33FJ06GS102AT-E/MM
DSPIC33FJ06GS102AT-I/MM
DSPIC33FJ06GS102-E/MM
DSPIC33FJ06GS102-I/MM
DSPIC33FJ06GS102T-E/MM
DSPIC33FJ06GS102T-I/MM
DSPIC33FJ06GS202A-E/MM
DSPIC33FJ06GS202A-I/MM
DSPIC33FJ06GS202AT-E/MM
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DSPIC33FJ06GS202T-E/MM
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DSPIC33FJ09GS302-E/MM
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DSPIC33FJ09GS302T-E/MM
DSPIC33FJ09GS302T-I/MM
DSPIC33FJ128GP202-E/MM
DSPIC33FJ128GP202-I/MM
DSPIC33FJ128GP202T-E/MM
DSPIC33FJ128GP202T-I/MM
DSPIC33FJ128GP204-E/ML
DSPIC33FJ128GP204-I/ML
DSPIC33FJ128GP204T-E/ML
DSPIC33FJ128GP204T-I/ML
DSPIC33FJ128GP206A-E/MR
DSPIC33FJ128GP206A-I/MR
DSPIC33FJ128GP206AT-E/MR
DSPIC33FJ128GP206AT-I/MR
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DSPIC33FJ128MC202-I/MM
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DSPIC33FJ64GP306AT-E/MR
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DSPIC33FJ64GS406T-50I/MR
DSPIC33FJ64GS606-50I/MR
DSPIC33FJ64GS606-E/MR
DSPIC33FJ64GS606-I/MR
DSPIC33FJ64GS606T-50I/MR
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DSPIC33FJ64MC506AT-E/MR
DSPIC33FJ64MC506AT-H/MR
DSPIC33FJ64MC506AT-I/MR
DSPIC33FJ64MC706A-E/MR
DSPIC33FJ64MC706A-I/MR
DSPIC33FJ64MC706AT-E/MR
DSPIC33FJ64MC706AT-I/MR
DSPIC33FJ64MC802-E/MM
DSPIC33FJ64MC802-H/MM
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DSPIC33FJ64MC802T-I/MM
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DSPIC33FJ64MC804T-H/ML
DSPIC33FJ64MC804T-I/ML
ENC28J60-I/ML
ENC28J60T-I/ML
HA7612-I/MM033
HA7612-I/MM036
HA7612T-I/MM033
HA7612T-I/MM036
HA7617-I/ML035
HA7617-I/ML040
HA7617T-I/ML035
HA7617T-I/ML040
HA7617T-I/ML044
HA7617T-I/ML046
PIC18F24J10-I/ML
PIC18F24J10T-I/ML
PIC18F24J11-I/ML
PIC18F24J11T-I/ML
PIC18F24J50-I/ML
PIC18F24J50T-I/ML
PIC18F25J10-I/ML
PIC18F25J10-I/ML020
PIC18F25J10T-I/ML
PIC18F25J10T-I/ML020
PIC18F25J11-I/ML
PIC18F25J11T-I/ML
PIC18F25J50-I/ML
PIC18F25J50T-I/ML
PIC18F26J11-I/ML
PIC18F26J11T-I/ML
PIC18F26J13-I/ML
PIC18F26J13T-I/ML
PIC18F26J50-I/ML
PIC18F26J50T-I/ML
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PIC18F26J53T-I/ML
PIC18F27J13-I/ML
PIC18F27J13T-I/ML
PIC18F27J53-I/ML
PIC18F27J53T-I/ML
PIC18F44J10-I/ML
PIC18F44J11-I/ML
PIC18F44J11T-I/ML
PIC18F44J50-I/ML
PIC18F44J50T-I/ML
PIC18F45J10-I/ML

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PIC18F45J11-I/ML
PIC18F45J11T-I/ML
PIC18F45J50-I/ML
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PIC18F46J11-I/ML
PIC18F46J11T-I/ML
PIC18F46J13-I/ML
PIC18F46J13T-I/ML
PIC18F46J50-I/ML
PIC18F46J50T-I/ML
PIC18F46J53-I/ML
PIC18F46J53T-I/ML
PIC18F47J13-I/ML
PIC18F47J13T-I/ML
PIC18F47J53-I/ML
PIC18F47J53T-I/ML
PIC18LF24J10-I/ML
PIC18LF24J11-I/ML
PIC18LF24J11T-I/ML
PIC18LF24J50-I/ML
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PIC18LF25J10-I/ML
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PIC18LF25J11-I/ML
PIC18LF25J11T-I/ML
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PIC18LF26J50-I/ML
PIC18LF26J50T-I/ML
PIC18LF26J53-I/ML
PIC18LF26J53T-I/ML
PIC18LF27J13-I/ML
PIC18LF27J13T-I/ML
PIC18LF27J53-I/ML
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