

**Product Change Notification - LIAL-05YDJH355**


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**Date:**

05 Jun 2020

**Product Category:**

Inductive Position Sensors

**Affected CPNs:**

**Notification subject:**

CCB 4082.011 Final Notice: Qualification of MTAI as a new final test site for selected LX3301AQPWxx Microsemi device family available in 14L TSSOP (4.4mm) package.

**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 MTAI as a new final test site for selected LX3301AQPWxx Microsemi device family available in 14L TSSOP (4.4mm) package.

**Pre Change:**

Tested at MSCS final test site

**Post Change:**

Tested at MTAI final test site

**Pre and Post Change Summary:**

		Pre Change	Post Change
<b>Final Test Site</b>		MSCSJ San Jose, California (MSCS)	Microchip Technology Thailand (MTAI)
<b>Certifications</b>		ISO9001	ISO14001:2015, IATF16949, and OHSAS 18001:2007
	<b>Packing Media: Tape and Reel</b> <i>(Applicable for LX3301AQPW- 13172-TR and LX3301AQPW- TR catalog part number)</i>	<b>Base Quantity Multiple (BQM)</b>	2500
		<b>Pin 1 Orientation</b>	Quadrant 1
		<b>With Desiccant and HIC?</b>	Not Applicable
		<b>Carrier Tape Dimension</b>	Minor dimensional changes. See pre and post change comparison
		<b>Cover Tape Dimension</b>	Minor dimensional changes. See pre and post change comparison
		<b>Reel Dimension</b>	Minor dimensional changes. See pre and post change comparison
		<b>Packaging</b>	See pre and post change comparison

<b>14L TSSOP package</b>		<b>Process</b>				
		<b>Inner Box Size</b>	See pre and post change comparison			
	<b>Packing Media: Tube</b> <i>(Applicable for LX3301AQPW catalog part number)</i>	<b>Base Quantity Multiple (BQM)</b>	96	96		
		<b>Pin 1 Orientation</b>	Pin # 1 Toward "ANTISTATIC" which is printed located on tube	Pin# 1 Toward White stopper		
		<b>With Desiccant and HIC?</b>	Not Applicable	Non dry pack	Dry pack	
				None	2 units per bag	
		<b>Tube Dimension</b>	Minor dimensional changes. See pre and post change comparison			
		<b>Tube Color</b>	Clear	Clear		
		<b>Plug Color</b>	Clear	Tube plug pin 1 side: White  Tube plug opposite side: Black		
		<b>Packaging Process</b>	See pre and post change comparison			

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

To improve manufacturability by qualifying MTAI as a new final test site.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

June 25, 2020 (date code: 2026)

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

**Time Table Summary:**

	April 2020					>	June 2020				
	14	15	16	17	18		23	24	25	26	27
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:**

**April 15, 2020:** Issued initial notification.

**June 05, 2020:** Issued final notification. Attached the qualification. Added the estimated first ship date by June 25, 2020.

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-05YDJH355\\_Qual\\_Report.pdf](#)

[PCN\\_LIAL-05YDJH355\\_Packing Pre and Post Change Summary.pdf](#)

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

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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

LX3301AQPW

LX3301AQPW-TR

**CCB 4082.011**  
**Pre and Post Change Summary**  
**PCN# LIAL-05YDJH355**



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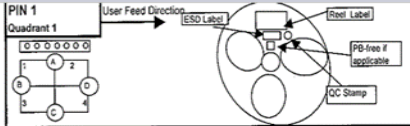
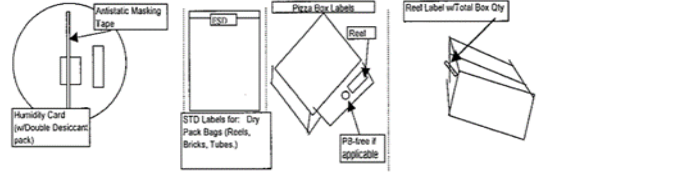

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# Packing Information – Tape and Reel

## 14L TSSOP (Package code: D4X)

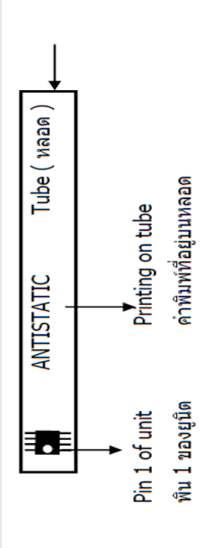
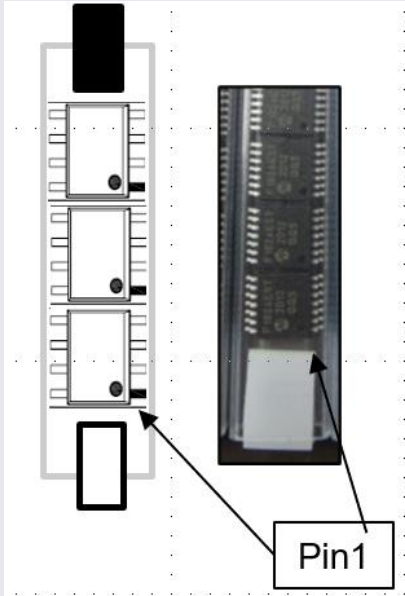
	Pre Change					Post Change				
Assembly Site Location	UTAC Thai Limited (UTL-1) LTD. (NSEB)					UTAC Thai Limited (UTL-1) LTD. (NSEB)				
Final Test Location	MSCS San Jose					MTAI				
Packing Media	Tape and Reel					Tape and Reel				
Base Quantity Multiple (BQM)	2500					2500				
Pin 1 Orientation	Quadrant 1					Quadrant 1				
With Desiccant and HIC?	Not Applicable					Not Applicable				
Carrier Tape	Width	Pitch	A0	B0	K0	Width	Pitch	A0	B0	K0
	16mm +/- 0.3	8mm +/- 0.1	6.95mm +/- 0.1	5.60mm +/- 0.1	1.60mm +/- 0.1	16mm +/- 0.3	8mm +/- 0.1	6.80mm +/- 0.1	5.40mm +/- 0.1	1.60mm +/- 0.1
Cover Tape	Width		Thickness			Width			Thickness	
	13.30 +/- 0.1mm		0.053 +/- 0.005mm			13.30 +/- 0.1mm			0.050 +/- 0.010 mm	
Reel	Color	Diameter	Hub Diameter	W1	Color	Diameter	Hub Diameter	W1		
	White	330mm	101.6mm	16.8mm	Dark Blue	330mm	100mm	16.40mm		

# Packing Information – Tape and Reel

	Pre change (MSCS)	Post change (MTAI)
<b>Boxes / Bags</b>	 <p><b>IPQC</b></p> <ol style="list-style-type: none"> <li>1. Peel Back: One every job (or one every machine)</li> <li>2. QC 12&amp;16 mm tape 1 for every 3 reels, otherwise 100%.</li> <li>3. Follow WI-824-02 Inprocess Inspection for compliance.</li> </ol> <p><b>PIN 1 Quadrant 1</b></p>  <p><b>Final QC</b></p> <ol style="list-style-type: none"> <li>1. Follow WI-824-04 Final Inspection for compliance.</li> </ol> <p><b>Packaging &amp; Shipping</b></p> <ol style="list-style-type: none"> <li>1. Standard Labels: Make Shipping Labels, add Reel, Bag, Box see drawings below.</li> <li>2. Rejects/Extras: Do Not pack together. Place order in shipping boxes</li> <li>3. Use MBB 2100 to pack all reels.</li> <li>4. Use 3 dot Humidity Card</li> </ol>  <p><b>Note:</b> After Nov'19 go live, MRC SAN JOSE will not implement Microchip Label, MRC will provide own label and FG1 to re-label to Microchip standard label</p>	 <p style="text-align: center;"><b>Label</b>      <b>Static Sensitive Bag</b>      <b>Antistatic Tape</b></p> <p style="text-align: center;"><b>Label</b></p>
<b>Inner box size</b>	Pizza box w/ dimensions 13" X 13" X 2"	No inner box
<b>Sealing Method</b>	Heat Sealing	Heat Sealing

# Packing Information – Tube

## 14L TSSOP (Package code: D4X)

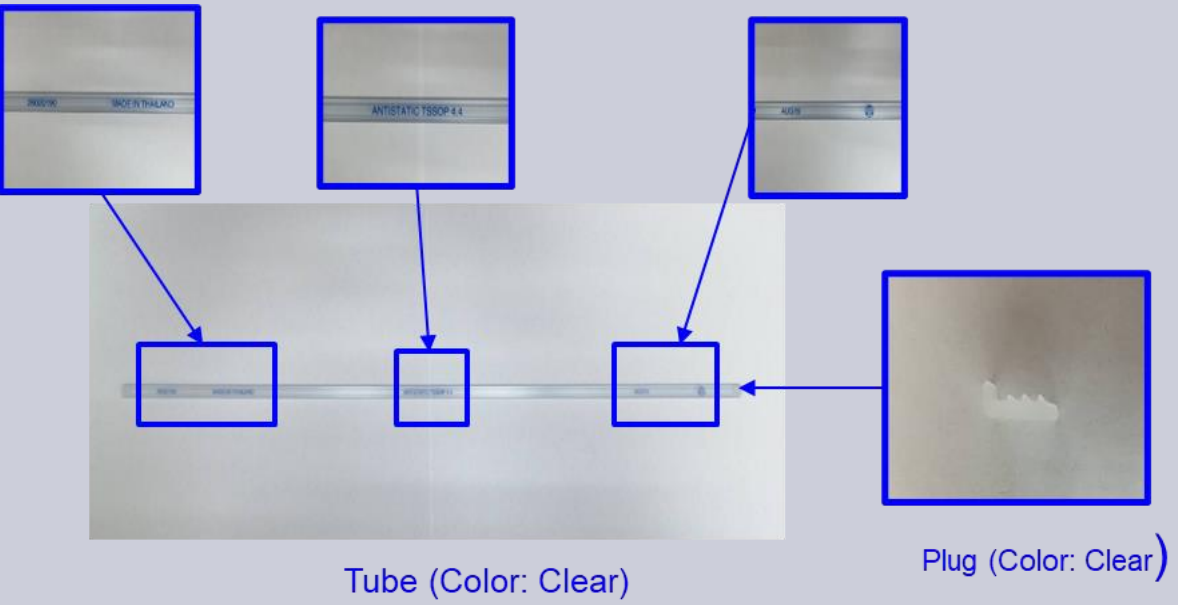
Packing Information	Packing Components / Media	Pre Change (MSCS)	Post Change (MTAI)
Base Quantity Multiple (BQM)	Units/Tube	96	96
Pin 1 Orientation	Tube	<p>Pin 1 of unit must be oriented toward “ANTISTATIC” which is printed located on tube</p> 	






# Packing Information – Tube

Packing information	Pre change (MSCS)			Post Change (MTAI)		
Tube dimension	Width (inch)	Length (inch)	Height (inch)	Width (inch)	Length (inch)	Height (inch)
	0.302 - 0.312 Max	19.950 – 20.050	0.113 - 0.123 Max.	0.268 +/- 0.007	20.00 ± 0.05	0.080 +/- 0.010

# Packing Information – Tube

Packing Components	Pre change (MSCS)
Tube color and Plug color	 <p>Tube (Color: Clear)</p> <p>Plug (Color: Clear)</p>

# Packing Information – Tube

Packing Components	Post Change (MTAI)	
<p><b>Tube color and Plug color</b></p>	 <p>Tube (Color: Clear)</p>	 <p>White plug at Pin 1 side</p>  <p>Black plug at opposite side</p> <p>Plug (Color)</p>

# Packing Information – Tube

Packing Components	MSCS		MTAI (Non-Dry Pack)		MTAI (Dry Pack)																																
Desiccant	Not applicable		None		2 units per bag																																
Moisture Barrier or Static Sensitive Bag	Width 6.00 (+/- 0.4) inch	Length: 25.236 (+/- 1.0) inch	Width 6.3 inch	Length 25.6 inch	Width 6.3 inch	Length 25.6 inch																															
																																					
Carton Box Dimension	Width: 5.31 inch Length: 21.26 inch Height: 3.35 inch 		<table border="1"> <thead> <tr> <th>Dimension W x L x H (cm)</th> <th>Number of Bag/carton</th> </tr> </thead> <tbody> <tr> <td>15x64x5.5</td> <td>1</td> </tr> <tr> <td>15x64x10</td> <td>2</td> </tr> <tr> <td>15x64x14</td> <td>3</td> </tr> <tr> <td>28x63x11</td> <td>4</td> </tr> <tr> <td>28x63x15.5</td> <td>6</td> </tr> <tr> <td>28x63x20</td> <td>8</td> </tr> </tbody> </table>		Dimension W x L x H (cm)	Number of Bag/carton	15x64x5.5	1	15x64x10	2	15x64x14	3	28x63x11	4	28x63x15.5	6	28x63x20	8	<table border="1"> <thead> <tr> <th>Inner Box</th> <th>Carton</th> <th>Number of Inner box(es) per carton</th> </tr> <tr> <th>Dimension W x L x H (cm)</th> <th>Dimension W x L x H (cm)</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="5">12.9x56.5x8</td> <td>15.5x62.0x14.0</td> <td>1 per 1</td> </tr> <tr> <td>28x63.5x11</td> <td>2 per 1</td> </tr> <tr> <td>28x63.5x15.5</td> <td>3 per 1</td> </tr> <tr> <td>28x63.5x20</td> <td>4 per 1</td> </tr> <tr> <td>43x59x19</td> <td>6 per 1</td> </tr> </tbody> </table>		Inner Box	Carton	Number of Inner box(es) per carton	Dimension W x L x H (cm)	Dimension W x L x H (cm)		12.9x56.5x8	15.5x62.0x14.0	1 per 1	28x63.5x11	2 per 1	28x63.5x15.5	3 per 1	28x63.5x20	4 per 1	43x59x19	6 per 1
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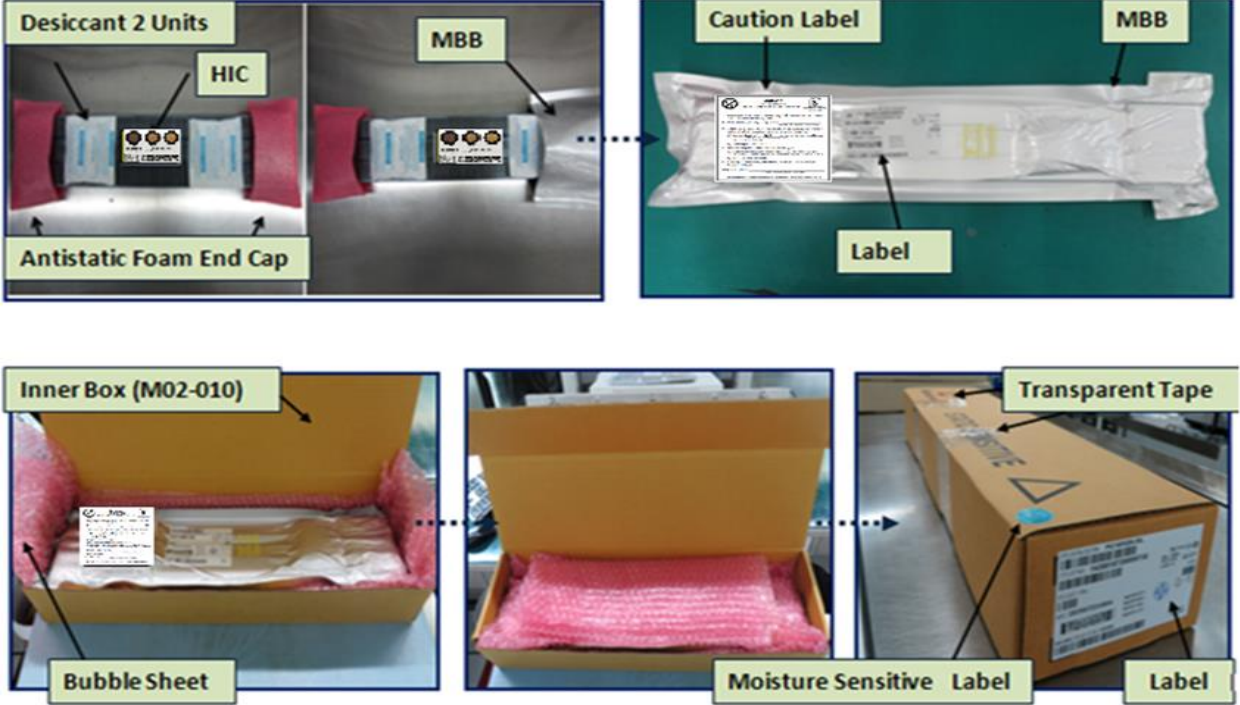
# Packing Information – Tube

Packing Information	Pre change (MSCS)
<p><b>Actual packing information</b></p>	<p>1. Check the marking layout and unit direction of the 2 full tubes and 1 partial tube</p> <div> </div> <p>2. Count the total units qty 3. Print label and prepare the packing material</p> <div> </div> <p style="text-align: center;"><b>Label for inner box</b></p> <p>4. Recounting the tubes and checking label 5. Packing by containing tubes of units into conductive bag which put opp. pin#1 side first and put the bag and PT in intermediate box into the box (the first full box)</p> <div> </div> <p>6. Close the box and seal with filament tape. Then attach label in front of the box and copy process traveler (PT) on top</p> <div> </div>

# Packing Information – Tube

Packing Components	Post change - MTAI (Non- Dry Pack products)
Actual Packing Procedure	

# Packing Information – Tube

Packing Components	Post change - MTAI (Dry pack products)
Actual Packing Procedure	 <p>The packing procedure consists of the following steps and components:</p> <ul style="list-style-type: none"><li>Step 1: Tube assembly with <b>Desiccant 2 Units</b>, <b>HIC</b>, <b>MBB</b>, and <b>Antistatic Foam End Cap</b>.</li><li>Step 2: Close-up of the tube with <b>MBB</b>.</li><li>Step 3: White bag containing <b>Caution Label</b>, <b>MBB</b>, and <b>Label</b>.</li><li>Step 4: <b>Inner Box (M02-010)</b> lined with <b>Bubble Sheet</b>.</li><li>Step 5: <b>Moisture Sensitive Label</b> applied to the inner box.</li><li>Step 6: Final packed box secured with <b>Transparent Tape</b> and a <b>Label</b>.</li></ul>



**MICROCHIP**

**QUALIFICATION REPORT SUMMARY**

**PCN #: LIAL-05YDJH355**

**Date:  
May 08, 2020**

**Qualification of MTAI as new final test site for selected  
LX3301AQPWxx Microsemi device family available in 14L  
TSSOP (4.4mm) package.**



**Purpose:** Qualification of MTAI as new final test site for selected LX3301AQPWxx Microsemi device family available in 14L TSSOP (4.4mm) package.

**CCB No.:** 4082.011

Test / Evaluation	Test Conditions / Parameters	Remarks / Results
<b>Lot Correlation</b>	<ul style="list-style-type: none"><li>1 qualification lot with 3, 000 units at currently qualified test site (original site) and new test site (destination site)</li></ul>	Passed
<b>Parametric Data Comparison</b>	<ul style="list-style-type: none"><li>33 units of parametric data comparison</li></ul>	Passed
<b>Datalog / Bin Comparison</b>	<ul style="list-style-type: none"><li>3, 000 units yield sample for bin comparison MSCS and MTAI</li><li>The yield difference should be within 0.1% and bin-to- bin difference should be within 0.1%</li></ul>	Passed