



Product Change Notification / ASER-30YJUP974

Date:

04-Aug-2021

Product Category:

Wireless Modules

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3344.004 Initial Notice: Qualification of MPHL as an additional final test site for selected AT86RF232/3 device family available in 32L VQFN (5x5x0.9mm) package.

Affected CPNs:

[ASER-30YJUP974_Affected_CPN_08042021.pdf](#)
[ASER-30YJUP974_Affected_CPN_08042021.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 MPHL as an additional final test site for selected AT86RF232/3 device family available in 32L VQFN (5x5x0.9mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change	
Final Test Site	Amkor Technology Philippines (P3/P4), INC. (ATP7)	Amkor Technology Philippines (P3/P4), INC. (ATP7)	Microchip Technology Operations (Philippines) Corporation (MPHL)

Base Quantity Multiple (BQM)	T/R	5000	5000	5000
	Tray	490	490	490
Packing Color	T/R	White	White	White
	Tray	Black	Black	Black
Pin 1 Orientation	T/R	Quadrant 1	Quadrant 1	Quadrant 1
	Tray	Tray Chamfer Side	Tray Chamfer Side	Tray Chamfer Side
Carrier Tape		See Pre and Post Change Summary for Comparison.		
Cover Tape				
Reel				
Packing Method				

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve manufacturability by qualifying MPHL an additional final test site.

Change Implementation Status:In Progress

Estimated Qualification Completion Date:October 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:

	August 2021					-->	October 2021				
	3 2	3 3	3 4	3 5	3 6		4 0	4 1	4 2	4 3	4 4
Initial PCN Issue Date	X										
Qual Report Availability											X
Final PCN Issue Date											X

Method to Identify Change:Traceability code

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

Revision History:

August 4, 2021: 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_ASER-30YJUP974_Pre and Post Change Summary.pdf](#)
[PCN_ASER-30YJUP974_Qual Plan.pdf](#)

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

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

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.



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: ASER-30YJUP974

Date
July 25, 2021

**Qualification of MPHL as an additional final test site for
selected AT86RF232/3 device family available in
32L VQFN (5x5x0.9mm) package.**

Purpose: Qualification of MPHL as an additional final test site for selected AT86RF232/3 device family available in 32L VQFN (5x5x0.9mm) package.

CCB No.: 3344.004

Test / Evaluation	Test Conditions / Parameters
Datalog / Bin Comparison	<ul style="list-style-type: none"><li data-bbox="646 516 1146 541">• 5,000-unit yield sample for bin comparison
Yield Comparison	<ul style="list-style-type: none"><li data-bbox="646 638 1162 663">• Lot Validation, Good vs. rejects comparison.<li data-bbox="646 667 1062 693">• 5,000 units matching to 0.1% yield
Parametric Comparison	<ul style="list-style-type: none"><li data-bbox="646 806 1107 831">• 50 units of parametric data comparison

CCB 3344.004
Pre and Post Change Summary
PCN #: ASER-30YJUP974



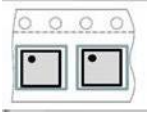
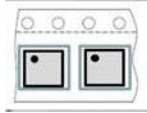
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions

**Qualification of MPHL as an additional final test site for
selected AT86RF232/3 device family available in 32L VQFN
(5x5x0.9mm) package.**

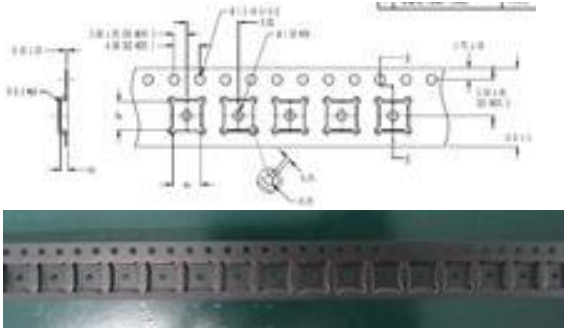
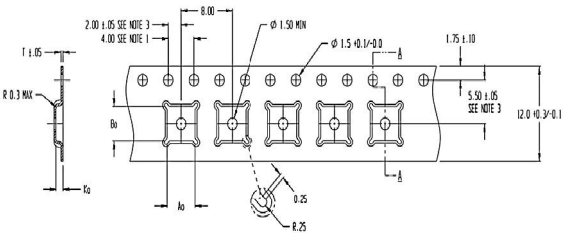


SMART | CONNECTED | SECURE

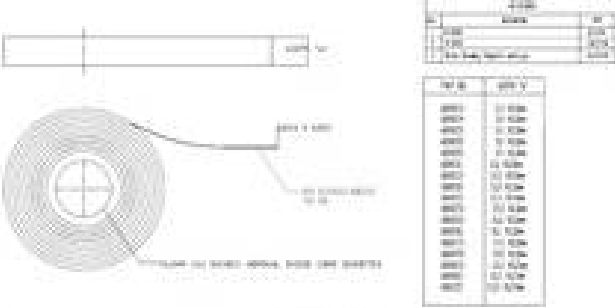
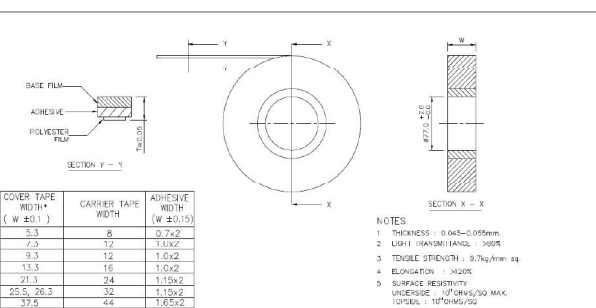
BQM and Pin 1 Orientation

		ATP7	MPLH
Base Quantity Multiple (BQM)	Tape and Reel	5000	5000
	Tray	490	490
Pin 1 orientation	Tape and Reel	Quadrant 1 	Quadrant 1 
	Tray	Tray Chamfer Side	Tray Chamfer Side



Tape and Reel - Carrier Tape

ATP7		MPHL	
			
Supplier Mfg. part no.	ML0505-A	Supplier Mfg. part no.	ML0505-A
Width (mm)	12	Supplier Mfg. part no.	QFN0500X0500E
Pitch (mm)	8	Width (mm)	12
A0 (mm)	5.25	Pitch (mm)	8
B0 (mm)	5.25	A0 (mm)	5.25
K0 (mm)	1.1	B0 (mm)	5.30
		K0 (mm)	1.1









Tape and Reel - Cover Tape

ATP7		MPHL									
											
<table border="1"> <thead> <tr> <th>Cover Tape Width</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>9.2 mm</td> <td>Black</td> </tr> </tbody> </table>		Cover Tape Width	Color	9.2 mm	Black	<table border="1"> <thead> <tr> <th>Cover Tape Width</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>9.3 mm</td> <td>Black</td> </tr> </tbody> </table>		Cover Tape Width	Color	9.3 mm	Black
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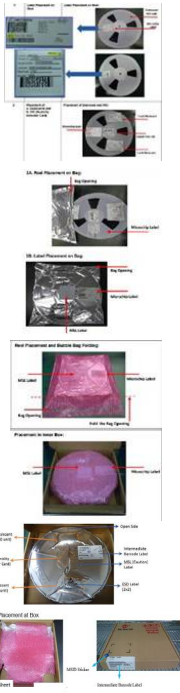

Tape and Reel – Plastic Reel

ATP7	MPHL
 <p data-bbox="479 1339 586 1373">12mm</p>	 <p data-bbox="1101 1339 1208 1373">12mm</p>

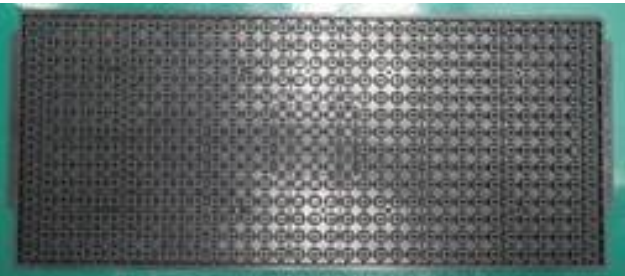
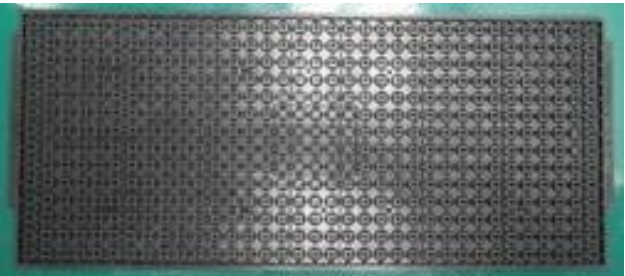
Tape and Reel – Packaging

Final Test Site	ATP7	MPHL
Desiccant		
HIC		
Boxes		
Bags		









Tape and Reel – Packing Procedure

ATP7	MPHL
 <p>The ATP7 column contains a vertical sequence of diagrams illustrating the packing process. It starts with 'Label Placement on Bag' showing a bag with a label. This is followed by 'L1 Bag Placement on Bag' and 'M1 Label Placement on Bag'. The next step is 'Bag Placement and Bubble Bag Inserting', showing a bag being placed into a larger container. This is followed by 'Final Placement in Outer Box' and 'Label Placement of Box'.</p>	 <p>The MPHL column contains diagrams for 'MPHL Label Placement on Bag' and 'MPHL Label Placement and Location of Outer Box'.</p>









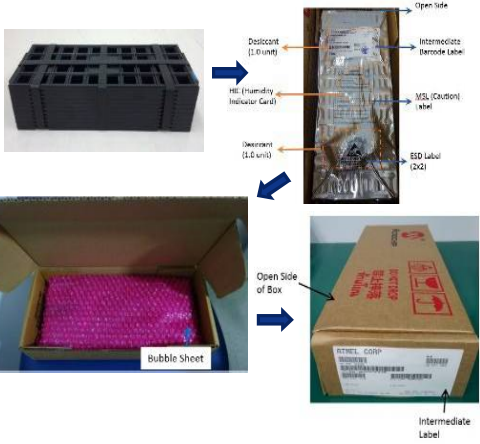
Tray

ATP7	MPHL
 A photograph of a rectangular ATP7 tray. The tray is dark grey with a fine grid of small circular holes. It is mounted on a green substrate.	 A photograph of a rectangular MPHL tray. The tray is dark grey with a fine grid of small circular holes, similar to the ATP7 tray. It is mounted on a green substrate.

Tray – Packaging

Final Test Site	ATP7	MPHL
Desiccant		
HIC		
Boxes		
Bags		

Tray – Packing Procedure

ATP7	MPHL
<p>Tray Wrapping:</p>  <p>4A. Inner Box Preparation:</p>  <p>Placement of Desiccants and MIC:</p>  <p>4B. Tray Placement on Inner Box:</p>  <p>5A. Tray Placement on SIBB:</p>  <p>5B. Label Placement on SIBB:</p>  <p>5A. Label Placement and Covering of Inner Box:</p>  <p>5B. QA Stamp:</p> 	 <p>Labels on the box include: Open Side, Intermediate Barcode Label, MIC (Humidity Indicator Card), Desiccant (1.6 unit), SIBB Label (2x2), ESD Label (2x2), Bubble Sheet, Open Side of Box, and Intermediate Label.</p>

ASER-30YJUP974 - CCB 3344.004 Initial Notice: Qualification of MPHL as an additional final test site for selecte

Affected Catalog Part Numbers(CPN)

AT86RF232-ZX
AT86RF233-ZU
AT86RF232-ZXR
AT86RF233-ZUR