



Product Change Notification / ALAN-27ZDFO664

Date:

29-May-2023

Product Category:

Memory

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6183 Initial Notice: Qualification of MTAI as an additional final test location for selected AT24xx, AT25xx, and 24FCxx device families available in 8L UDFN (2x3x0.6mm) package.

Affected CPNs:

[ALAN-27ZDFO664_Affected_CPN_05292023.pdf](#)
[ALAN-27ZDFO664_Affected_CPN_05292023.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 MTAI as an additional final test location for selected AT24xx, AT25xx, and 24FCxx device families available in 8L UDFN (2x3x0.6mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change

Final Test Location	Amkor Technology Philippine (P1/P2), INC. (ANAP)		Amkor Technology Philippine (P1/P2), INC. (ANAP)		Microchip Technology Thailand (HQ) (MTAI)	
Pin1 Orientation	Quadrant 2		Quadrant 2		Quadrant 2	
BQM	5000	15000	5000	15000	5000	15000
Carrier Tape	No change. See pre and post change for comparison.					
Cover Tape	Minimal dimensional change. See pre and post change for comparison.					
Plastic Reel	Minimal dimensional change. See pre and post change for comparison.					
Packing Method	Minimal dimensional change. See pre and post change for comparison.					

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve manufacturability by qualifying MTAI as an additional test location.

Change Implementation Status:In Progress

Estimated Qualification Completion Date:June 2023

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:

	May 2023					June 2023				
Workweek	1 8	1 9	2 0	2 1	2 2	23	24	25	26	27
Initial PCN Issue Date					X					
Qual Report Availability						X				

Final PCN Issue Date							X				
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Method to Identify Change:Traceability code

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

Revision History:May 29, 2023: 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_ALAN-27ZDF0664 Pre and Post Change.pdf](#)
- [PCN_ALAN-27ZDF0664 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.

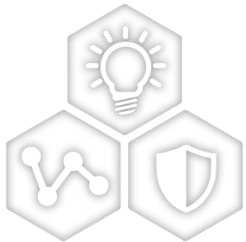
CCB 6183

Pre and Post Change Summary

PCN# ALAN-27ZDF0664



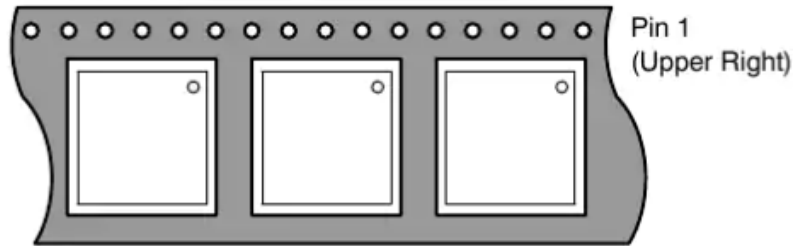
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

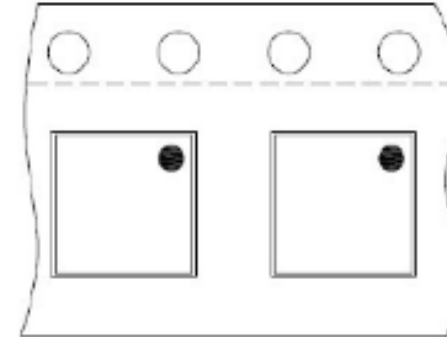
Pin1 Orientation Quadrant in Tape and Reel

ANAP



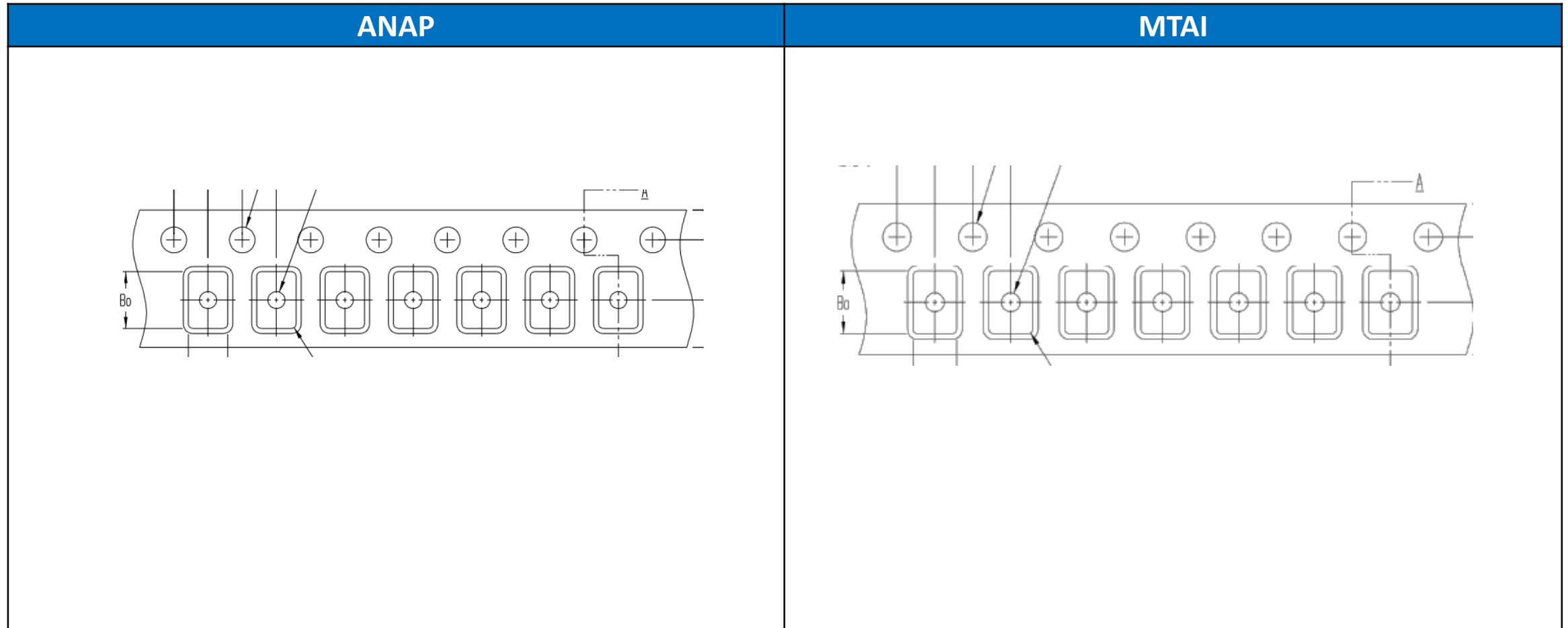
Quadrant 2

MTAI



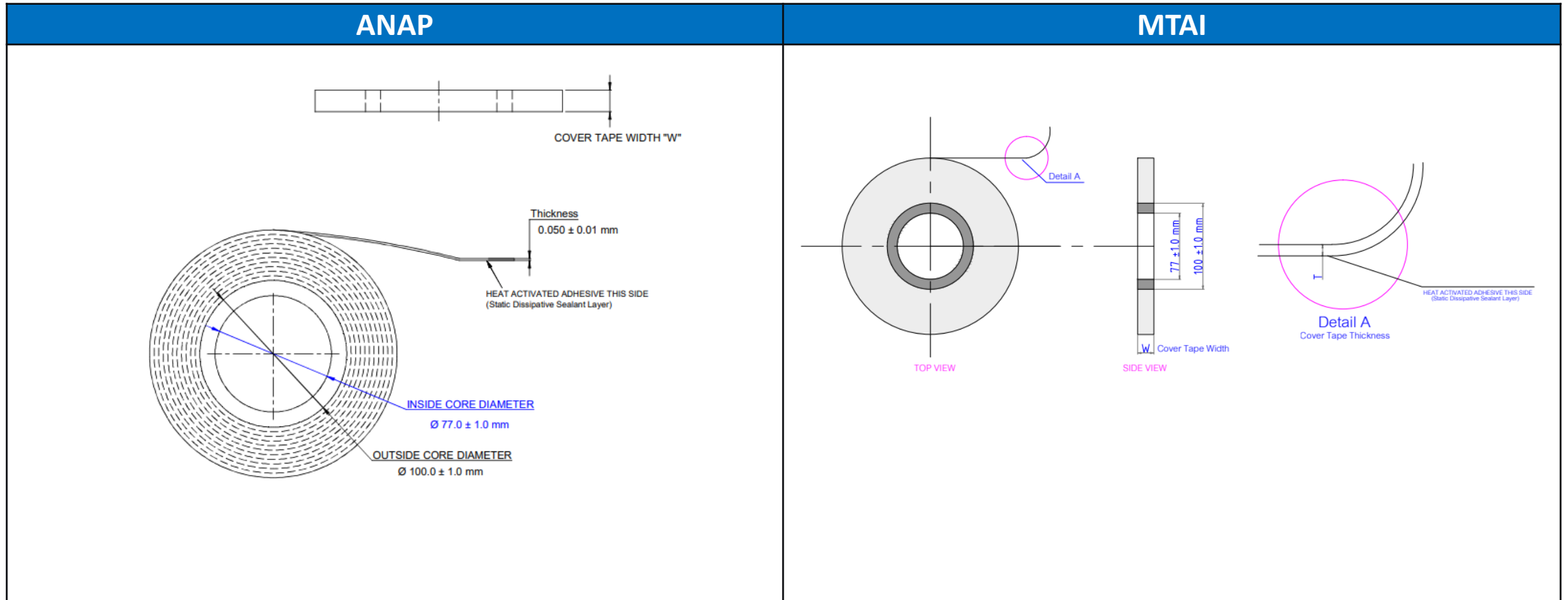
Quadrant 2

Carrier Tape (8L UDFN 2x3x0.6mm)



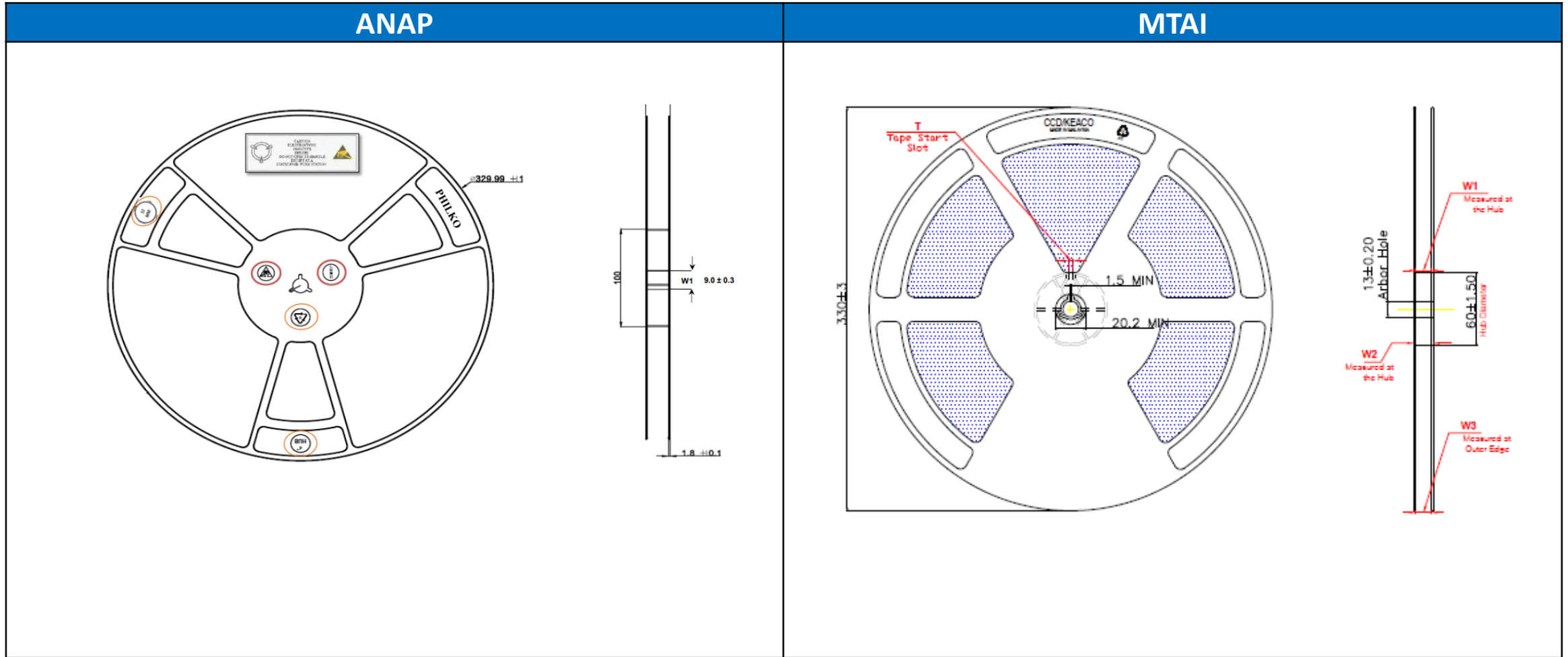
Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	Thickness (mm.)
ANAP	8.0 +0.3/-0.1	4.0 +/-0.1	2.30 +/- 0.1	3.30 +/- 0.1	0.75 +/- 0.1	0.30 +/-0.05
MTAI	8.00 +0.3/-0.1	4.00 ±0.1	2.30 ±0.1	3.30 ±0.1	0.75 ±0.1	0.30 ±0.05

Cover Tape (8L UDFN 2x3x0.6mm)



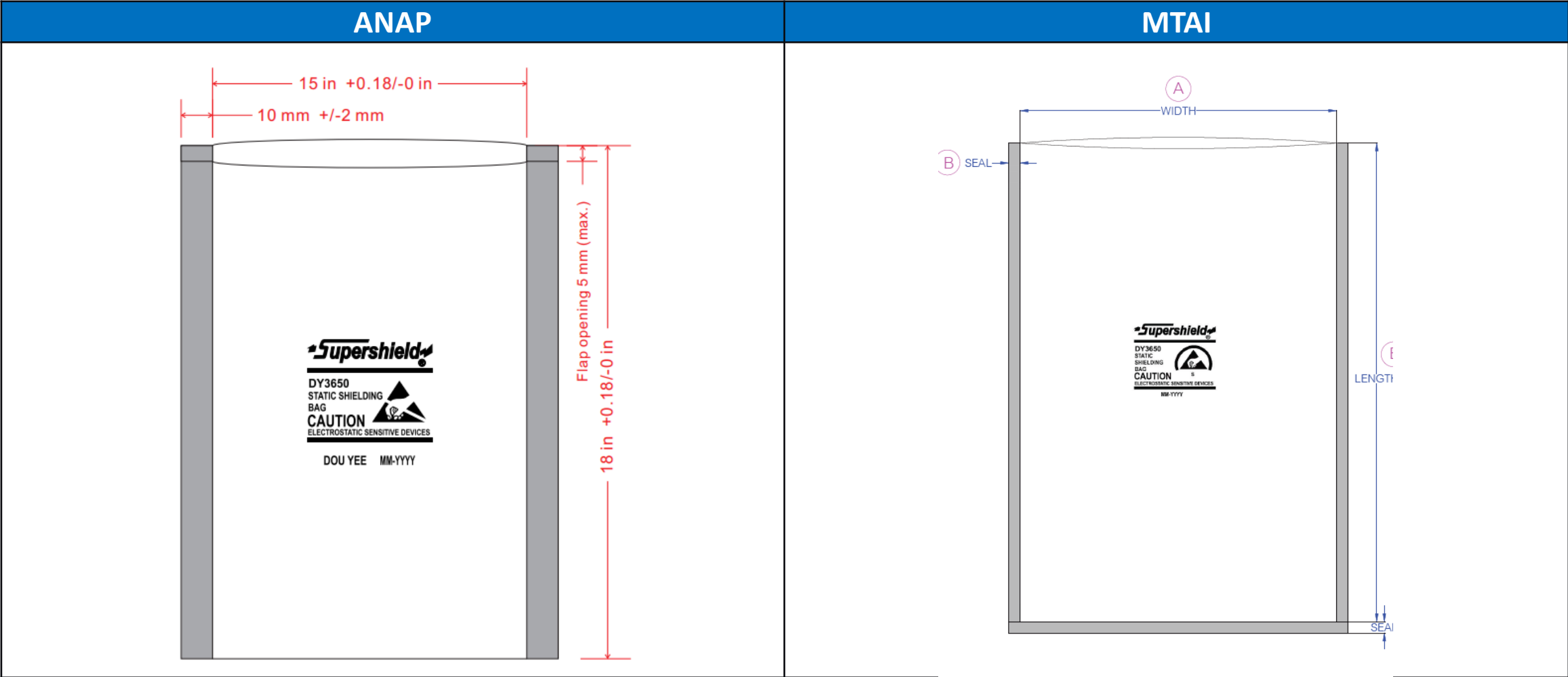
Plant	Width W (mm.)	Thickness T (mm.)	Colour	Sealing Methodology
ANAP	5.4 +/- 0.10	0.050 +/- 0.01	Gray	Heat Seal
MTAI	5.3 ±0.1	0.050 ±0.010	Clear	Heat Seal

Plastic Reel (8L UDFN 2x3x0.6mm)



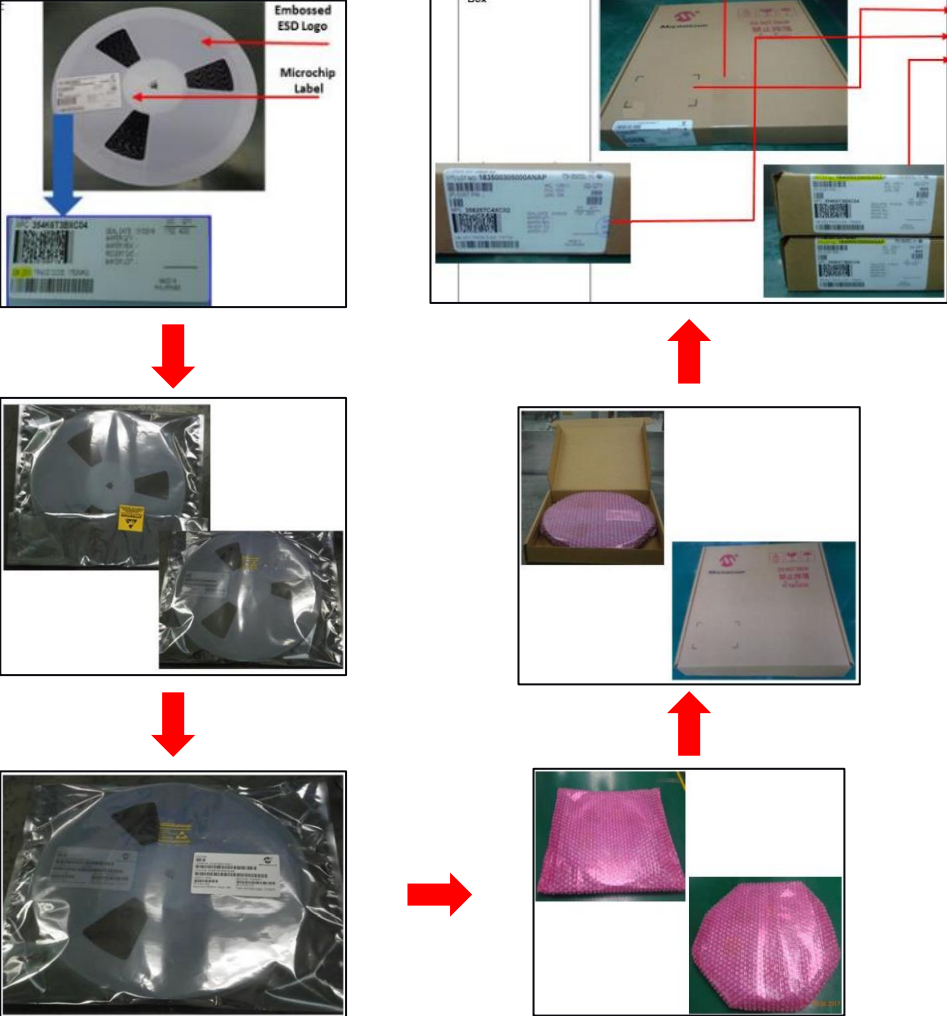


Plant	Supplier Part	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Colour
ANAP	PTC-PR0012-8	329.99 ± 1	100	11.4 ± 0.8	White
MTAI	91984-1	330 ± 3.0	60 ± 1.5	14.40	White

T/R Packing Static Sensitive Bag for Non dry Pack (MSL-1)



Plant	Length (mm)	Width (mm)	Thickness (mils)	Colour
ANAP	482.6 +4.5/-0	381 +4.5/-0	3.0 +/- 0.3	Gray
MTAI	420 +5/-0	370 +5/-0	3.0 ±0.3	Transparent

T/R Packing Method for Non dry Pack (MSL-1)

ANAP	MTAI												
 <p data-bbox="675 1285 1261 1320"><i>ANAP use inner box and outer box for shipment</i></p>	 <p data-bbox="1745 556 1949 592">No inner box</p> <p data-bbox="1286 614 2254 649">Carton for Packing and Shipping without inner box for product in T/R media (MSL-1)</p> <table border="1" data-bbox="1388 656 2280 992"> <thead> <tr> <th>Carton Box</th> <th>Dimension WxLxH</th> </tr> </thead> <tbody> <tr> <td>M01-012 (B1)</td> <td>35.5x35.5x2.8 cm (Max 1 reel)</td> </tr> <tr> <td>M01-013 (B2)</td> <td>35.5x35.5x4 cm (Max 3 reel)</td> </tr> <tr> <td>M01-014 (B3)</td> <td>35.5x35.5x6 cm (Max 4 reel)</td> </tr> <tr> <td>M01-015 (B8)</td> <td>35.5x35.5x16.5 cm (Max 10 reel)</td> </tr> <tr> <td>M01-011 (TT)</td> <td>36.5x38x39.5 cm (Max 18 reel)</td> </tr> </tbody> </table> <div data-bbox="1286 1021 2395 1278"> <p>Packing for tape and reel in carton box B2/ B3.(Sample)</p> <p>Packing for tape and reel in carton box B8.(Sample)</p> <p>Packing for tape and reel in carton box TT</p>  </div>	Carton Box	Dimension WxLxH	M01-012 (B1)	35.5x35.5x2.8 cm (Max 1 reel)	M01-013 (B2)	35.5x35.5x4 cm (Max 3 reel)	M01-014 (B3)	35.5x35.5x6 cm (Max 4 reel)	M01-015 (B8)	35.5x35.5x16.5 cm (Max 10 reel)	M01-011 (TT)	36.5x38x39.5 cm (Max 18 reel)
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Affected Catalog Part Numbers (CPN)

AT24C256C-MAHL-T
AT24C16C-MAHDHP-T
AT25040B-MAHL-T
AT25040B-MAHL-E
AT25020B-MAHL-T
AT25020B-MAHL-E
AT25010B-MAHL-T
AT25010B-MAHL-E
AT34C02D-MAHM-T
AT34C02D-MAHM-E
AT24C04C-MAHM-E
AT24C04C-MAHM-T
AT24C512C-MAHM-T
AT24C512C-MAHM-E
AT24C08C-MAHM-T
AT24C08C-MAHM-E
AT24C01C-MAHM-T
AT24C01C-MAHM-E
AT24C02C-MAHM-T
AT24C02C-MAHM-E
AT24C256C-MAHL-E
AT24C16C-MAHM-T
AT24C16C-MAHM-E
AT24C64D-MAHM-T
AT24C64D-MAHM-E
AT24C128C-MAHM-T
AT24C128C-MAHM-E
AT24C32D-MAHM-T
AT24C32D-MAHM-E
AT25128B-MAHL-T
AT25128B-MAHL-E
AT25256B-MAHL-T
AT25256B-MAHL-E
AT25080B-MAHL-T
AT25080B-MAHL-E
AT25160B-MAHL-T
AT25160B-MAHL-E
AT25320B-MAHL-T
AT25320B-MAHL-E
AT25640B-MAHL-T
AT25640B-MAHL-E
AT24C01D-MAHM-T
AT24C01D-MAHM-E
AT24C02D-MAHM-T
AT24C02D-MAHM-E
AT24C04D-MAHM-T

AT24C04D-MAHM-E
AT24C08D-MAHM-T
AT24C08D-MAHM-E
AT24C16D-MAHM-T
AT24C16D-MAHM-E
AT24C32E-MAHM-T
24FC01T-I/MUY
24FC02T-I/MUY
24FC04T-I/MUY
24FC04HT-I/MUY
24FC01T-I/Q4B
24FC02T-I/Q4B
24FC04T-I/Q4B
24FC04HT-I/Q4B
24FC01T-E/MUY
24FC02T-E/MUY
24FC04T-E/MUY
24FC04HT-E/MUY
24FC01T-E/Q4B
24FC02T-E/Q4B
24FC04T-E/Q4B
24FC04HT-E/Q4B
24FC16T-I/MUY
24FC08T-I/MUY
24FC16T-I/Q4B
24FC08T-I/Q4B
24FC16T-E/MUY
24FC08T-E/MUY
24FC16T-E/Q4B
24FC08T-E/Q4B
24FC512T-I/Q4B
24FC512T-E/Q4B



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**QUALIFICATION PLAN SUMMARY
RELIABILITY LABORATORY**

PCN# ALAN-27ZDFO664

Date:

May 27, 2023

**Qualification of MTAI as an additional final test location for
selected AT24xx, AT25xx, and 24FCxx device families
available in 8L UDFN (2x3x0.6mm) package.**



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Purpose

Qualification of MTAI as an additional final test location for selected AT24xx, AT25xx, and 24FCxx device families available in 8L UDFN (2x3x0.6mm) package.

CCB

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Test	Condition
Test Correlation	<ul style="list-style-type: none">- Build and test one wafer (> 3000 pcs.) for each of the 4 checkout products in MTAI Q4B package- Compare test yields from checkout in MTAI with ANAP yield trends.