



Product Change Notification / MFOL-06WDZP834

Date:

14-Jun-2022

Product Category:

Clock and Timing - High Speed Communication, PCIe - Signal Integrity

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3740.007 Final Notice: Qualification of MTAI as an additional final test site for selected VSC8115xx and VSC330xx device families available in 20L TTSOP (4.4mm) and 36L FCCSP (7x7mm) packages.

Affected CPNs:

[MFOL-06WDZP834_Affected_CPN_06142022.pdf](#)
[MFOL-06WDZP834_Affected_CPN_06142022.csv](#)

Notification Text:

PCN Status:Final 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 site for selected VSC8115xx and VSC330xx device families available in 20L TTSOP (4.4mm) and 36L FCCSP (7x7mm) packages.

Pre and Post Change Summary:

	Pre Change	Post Change
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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:June 14, 2022: Issued final 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_MFOL-06WDZP834_Qual Report.pdf](#)
- [PCN_MFOL-06WDZP834_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.

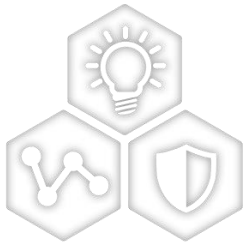
CCB 3740.007

Pre and Post Change Summary

PCN# MFOL-06WDZP834



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



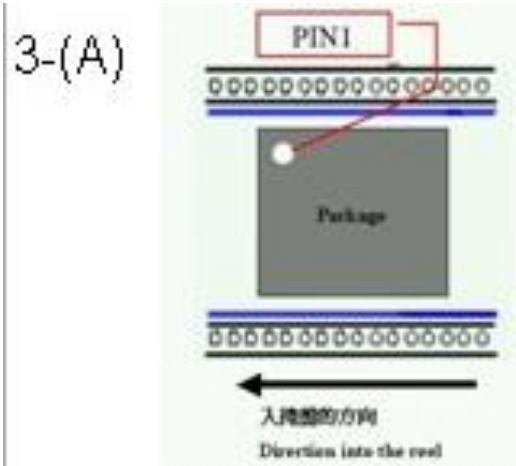
SMART | CONNECTED | SECURE

Pre and Post Summary – Base Quantity Multiple (BQM) and Pin 1 Orientation

PACKAGE				PRE CHANGE	POST CHANGE	
Final test site				ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Thailand (HQ) (MTAI)
20L	TTSOP	Base Quantity Multiple (BQM)	Tape and Reel	500	500	500
		Pin 1 Orientation		Quadrant 1	Quadrant 1	Quadrant 1
36L	FCCSP	Base Quantity Multiple (BQM)	Tray	416	416	416
		Pin 1 Orientation		Chamfer Tray	Chamfer Tray	Chamfer Tray
		Tray Stack		5+1	5+1	5+1

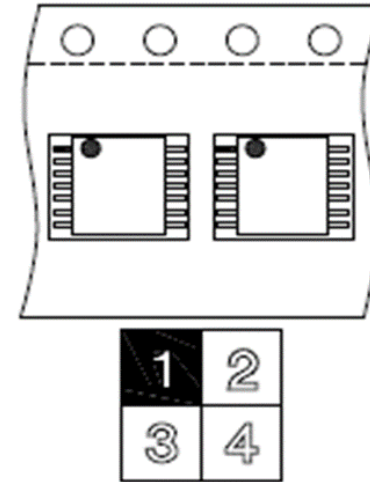
Pre and Post Change Summary – (20L TTSOP) T/R Pin 1 Orientation

ASE9



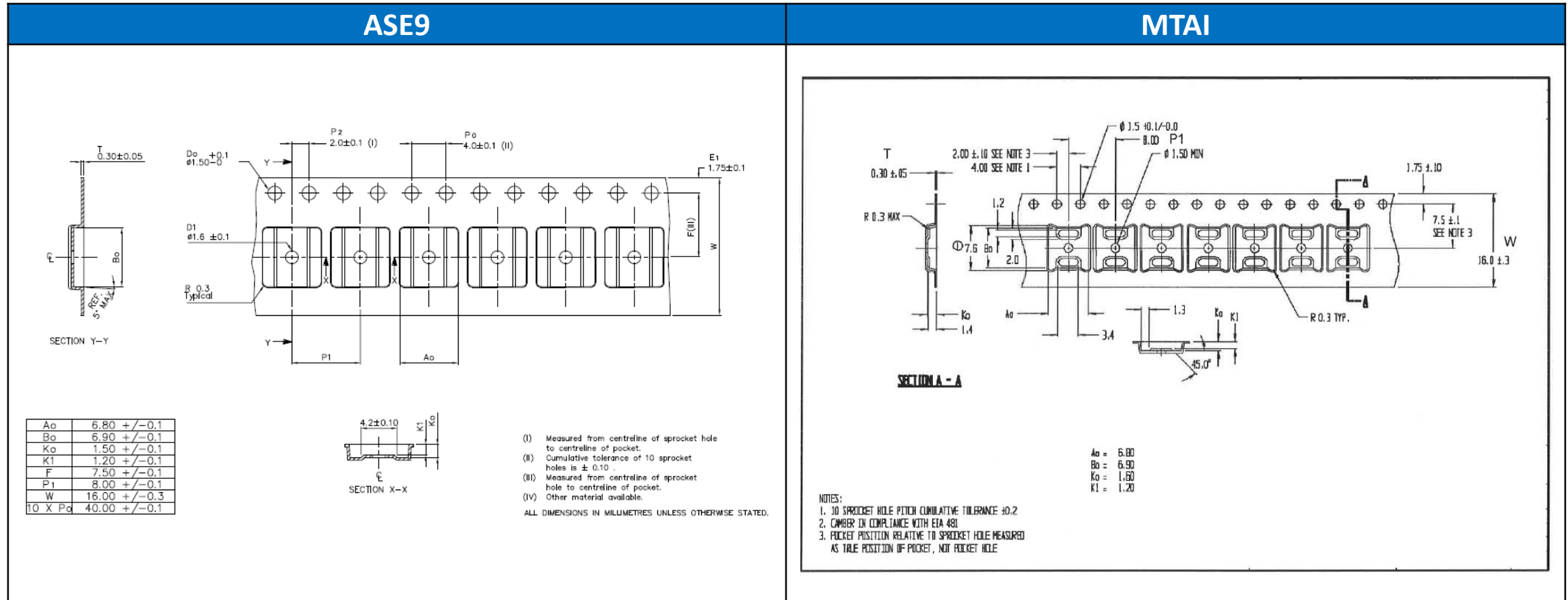
Quadrant 1

MTAI



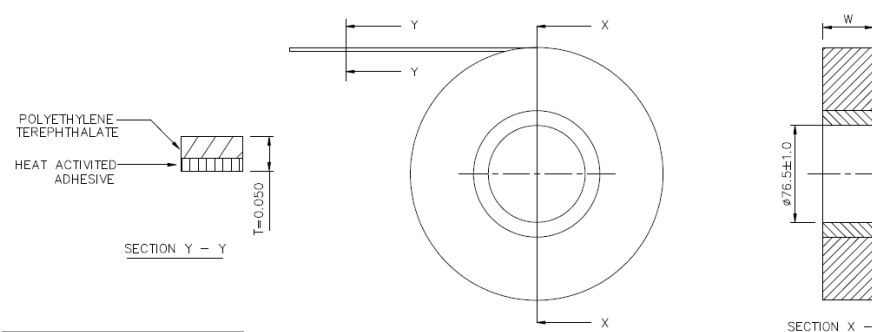
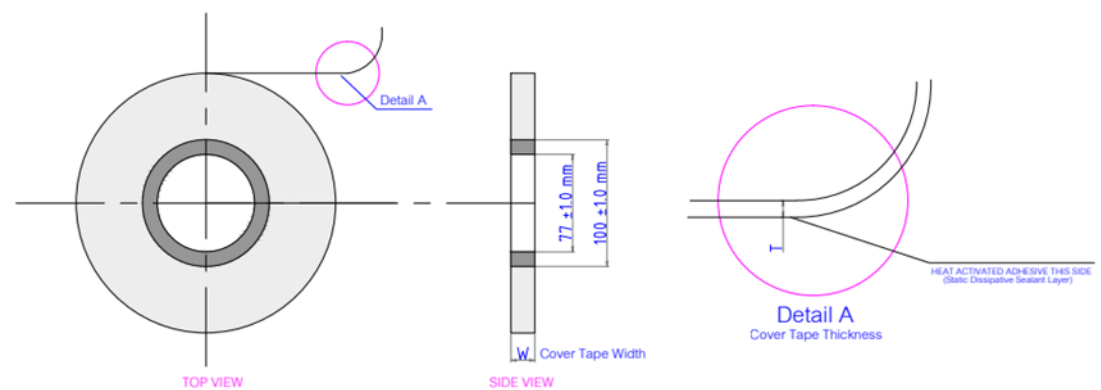
Quadrant 1

Pre and Post Change Summary – (20L TTSOP) Carrier Tape



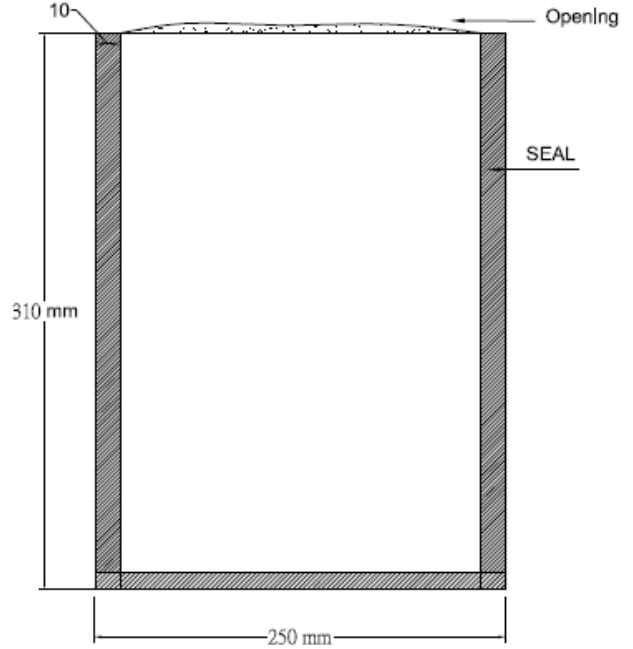

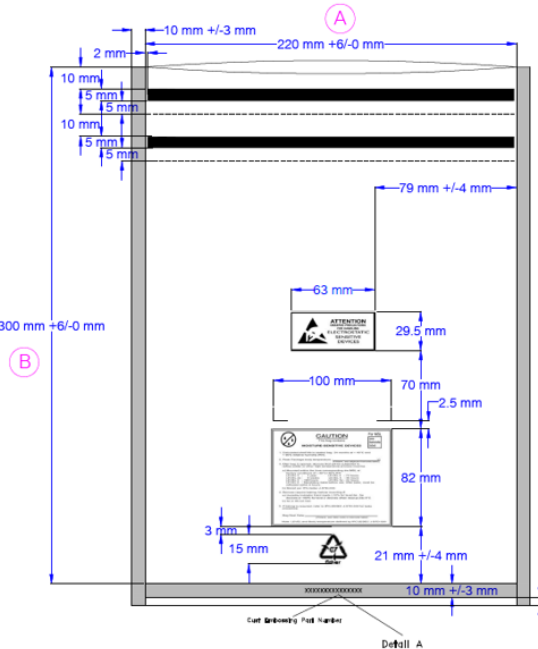
Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM	Pin1
ASE9	16.00 ±0.30	8.00 ±0.10	6.80 ±0.10	6.90 ±0.10	1.50 ±0.10	1.20 ±0.10	0.30±0.05	500	Quadrant 1
MTAI	16.00 ±0.30	8.00 ±0.10	6.80 ±0.10	6.90 ±0.10	1.60 ±0.10	1.20 ±0.10	0.30±0.05	500	Quadrant 1

Pre and Post Change Summary – (20L TTSOP) Cover Tape

ASE9	MTAI																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 50%;"> <p>NOTES</p> <ol style="list-style-type: none"> 1 THICKNESS : 0.040–0.060mm. 2 STANDARD LENGTH : 300m, 500m 3 TENSILE STRENGTH : 7.75kg/mm sq. 4 ELONGATION : 120% 5 SURFACE RESISTANCE : 1E+4 TO 9.9E+10 ohms. 6 SURFACE RESISTIVITY : 1E+5 TO 9.9E+11 ohms per sq. 7 PEEL STRENGTH CONFORMS TO EIA SPEC.:20 to 80g 8 RECOMMENDED SHELF LIFE : TWO YEAR FROM MANUFACTURING DATE 9 LUMINOUS TRANSMITTANCE : 86% 10 HAZE : 27% *10 OTHER COVER TAPE WIDTH REFER TO W14.08-04 <p>ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p> </div> </div> <div style="margin-top: 20px;"> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>STANDARD COVER TAPE WIDTH* (W ±0.1)</th> <th>CARRIER TAPE WIDTH</th> </tr> </thead> <tbody> <tr><td>5.3, 5.4, 5.5</td><td>8</td></tr> <tr><td>9.1, 9.2, 9.3</td><td>12</td></tr> <tr><td>13.2, 13.3</td><td>16</td></tr> <tr><td>21.0, 21.3</td><td>24</td></tr> <tr><td>25.5</td><td>32</td></tr> <tr><td>37.5</td><td>44</td></tr> <tr><td>49.5</td><td>56</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>STANDARD COVER TAPE WIDTH* (W ±0.15)</th> <th>CARRIER TAPE WIDTH</th> </tr> </thead> <tbody> <tr><td>65.5</td><td>72</td></tr> <tr><td>81.5</td><td>88</td></tr> </tbody> </table> </div>	STANDARD COVER TAPE WIDTH* (W ±0.1)	CARRIER TAPE WIDTH	5.3, 5.4, 5.5	8	9.1, 9.2, 9.3	12	13.2, 13.3	16	21.0, 21.3	24	25.5	32	37.5	44	49.5	56	STANDARD COVER TAPE WIDTH* (W ±0.15)	CARRIER TAPE WIDTH	65.5	72	81.5	88	<div style="display: flex; justify-content: space-around; align-items: center;">  </div>
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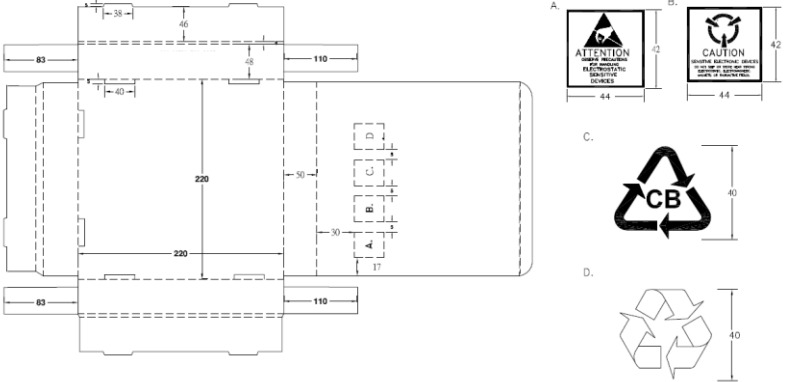
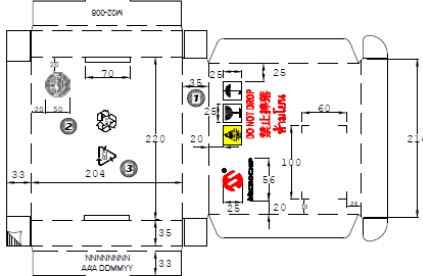


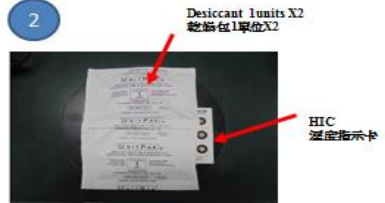







Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
ASE9	13.3 ±0.1	0.050 ±0.010	Clear	Heat Seal
MTAI	13.3 ±0.1	0.050 ±0.010	Clear	Heat Seal

Pre and Post Change Summary – (20L TTSOP) Moisture Barrier Bag

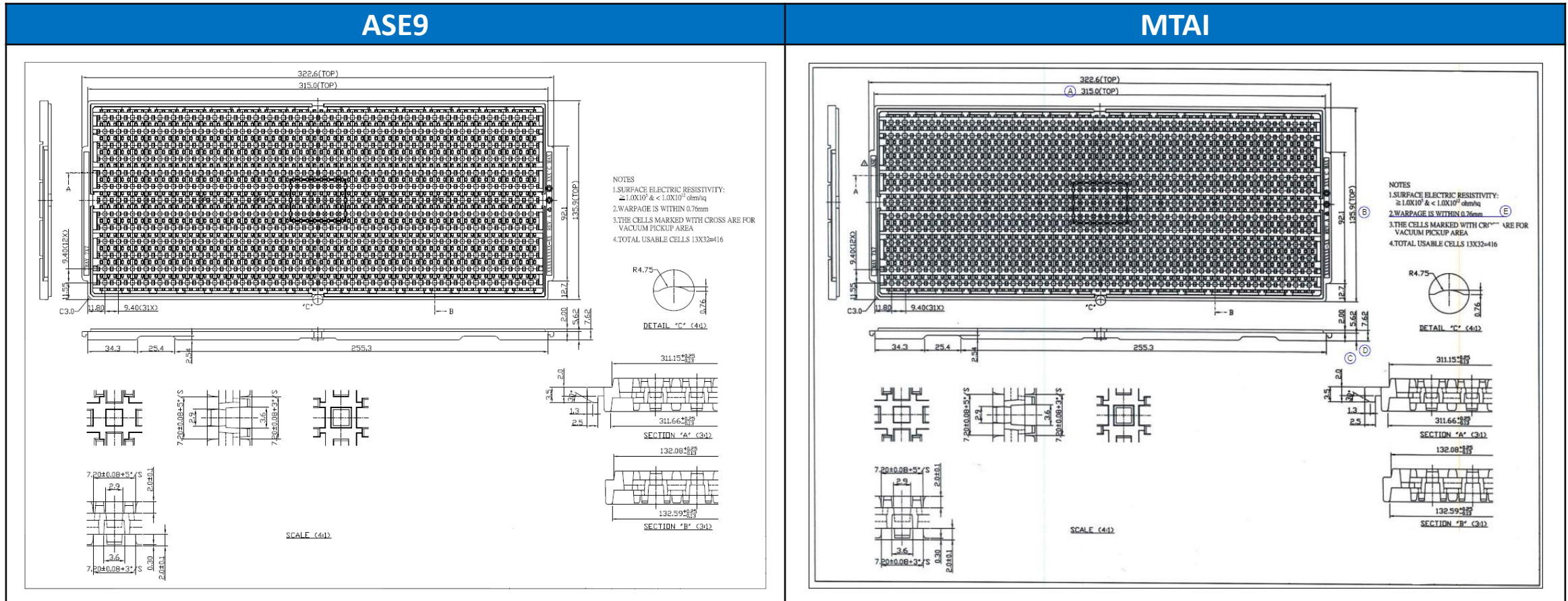
ASE9	MTAI												
 <p>10 Opening SEAL 310 mm 250 mm</p> <p>Note.: Structure : ESD/PET/AL/ONY/LLDPE/ESD</p>	  <p>10 mm +/- 3 mm (A) 2 mm 10 mm 15 mm 10 mm 15 mm 220 mm +/- 6/-0 mm 79 mm +/- 4 mm 63 mm 29.5 mm 100 mm 70 mm 2.5 mm 82 mm 3 mm 15 mm 21 mm +/- 4 mm 10 mm +/- 3 mm Bottom flap 3 mm - 5 mm Detail A</p> <p>(B) 300 mm +/- 6/-0 mm (C) Thickness</p> <p>T/R 7INCH MOISTURE BARRIER BAG</p> <p>Note: (1) Color: Opaque in aluminum color (2) Printing Color: Black (3) Thickness: 4mils +/- 10% (0.4) (4) Detail A: Supplier part number (Optional) (5) Specification Reference: MS-15090</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>MEDIA</th> <th>WIDTH (+6/-0 MM)</th> <th>LENGTH (+6/-0 MM)</th> <th>SEAL (+/-2 MM)</th> <th>MCHP P/N</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>T/R</td> <td>220</td> <td>300</td> <td>10</td> <td>24000046</td> </tr> </tbody> </table>	ITEM	MEDIA	WIDTH (+6/-0 MM)	LENGTH (+6/-0 MM)	SEAL (+/-2 MM)	MCHP P/N	1	T/R	220	300	10	24000046
ITEM	MEDIA	WIDTH (+6/-0 MM)	LENGTH (+6/-0 MM)	SEAL (+/-2 MM)	MCHP P/N								
1	T/R	220	300	10	24000046								

Plant	Length (mm)	Width (mm)	Thickness (mm)
ASE9	310	250	0.15
MTAI	300	220	0.1016

Pre and Post Change Summary – (20L TTSOP) Packing Method

ASE9	MTAI
 <p>NOTE: 1. PAPER COLOR IS BROWN. 2. ALL LOGO COLOR IS BLACK. 3. 破裂強度 8kgf/cm²</p>	 <p>NOTE : 1. MATERIAL : KT250/CA125/KT250 THICKNESS : 3 MM CARTON COLOR : NATURAL (UNBLEACHED) TAN. 2. "NNNNNNN" IS MICROCHIP PART NUMBER (OPTION) 3. "AAA" IS THE SUPPLIER NAME</p>
 <p>1. MSB inser box label 真空袋上標籤 2. DRY PACK BAG HOLE DIRECTION 真空袋袋口方向 3. Caution Label 警告標籤</p>	 <p>Label</p>
 <p>2. Desiccant units X2 乾燥包1單位X2 HIC 溼度指示卡</p>	 <p>Desiccant 2 Units HIC</p>
 <p>3. MSB inser box label 真空袋上標籤 DRY PACK BAG HOLE DIRECTION 真空袋袋口方向 Caution Label 警告標籤</p>	 <p>Moisture Barrier Bag Caution Label Label</p>
 <p>4. Inner box 內盒 MSID sticker MSID 標籤 Please stick the inner box label beside the MSID label, along the edge 內盒標籤貼在MSID 標籤旁邊, 沿著邊緣 2D label 2維小標籤</p>	 <p>Label Transparent Tape</p>
 <p>Inner Box (M02-008) DO NOT DROP 禁止掉落 ห้ามตก Moisture Sensitive Label Label</p>	 <p>Label Caution Label Moisture Sensitive Label Label</p>

Pre and Post Change Summary – (36L FCCSP) Tray

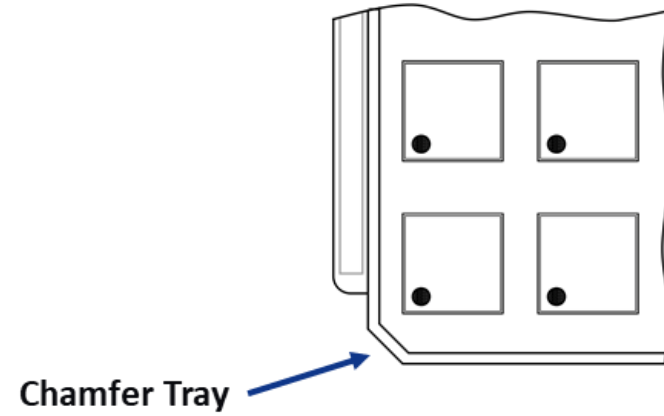
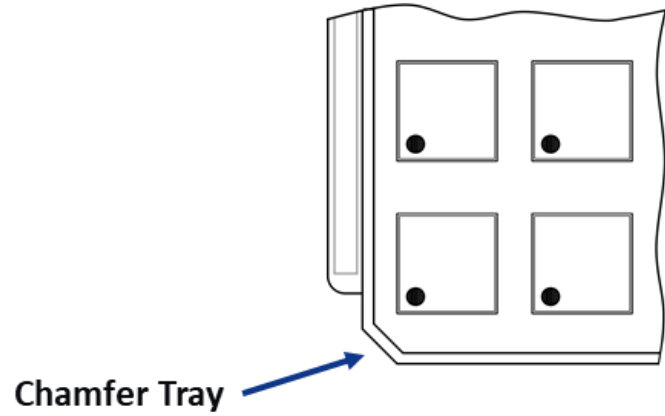


Plant	Bakeable (Temp C)	Row	Col	Unit per Tray	Color	Tray Stack
ASE9	150C	13	32	416	Black	5+1
MTAI	150C	13	32	416	Black	5+1

Pre and Post Change Summary – (36L FCCSP) Tray Pin 1 Orientation

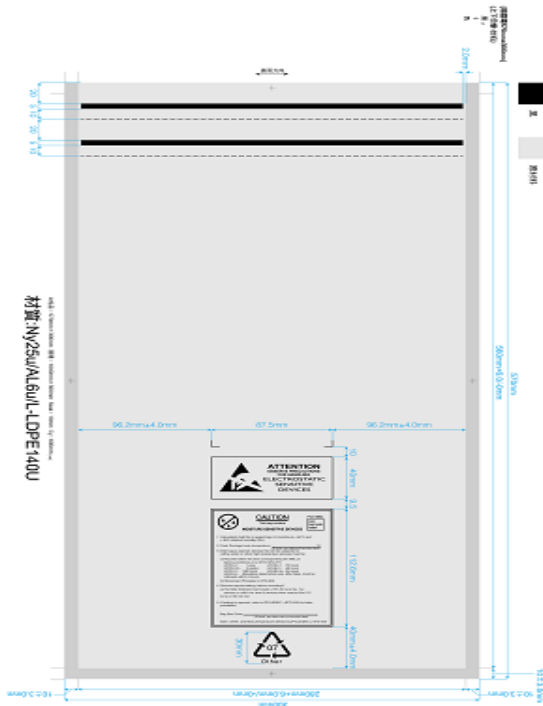
ASE9

MTAI

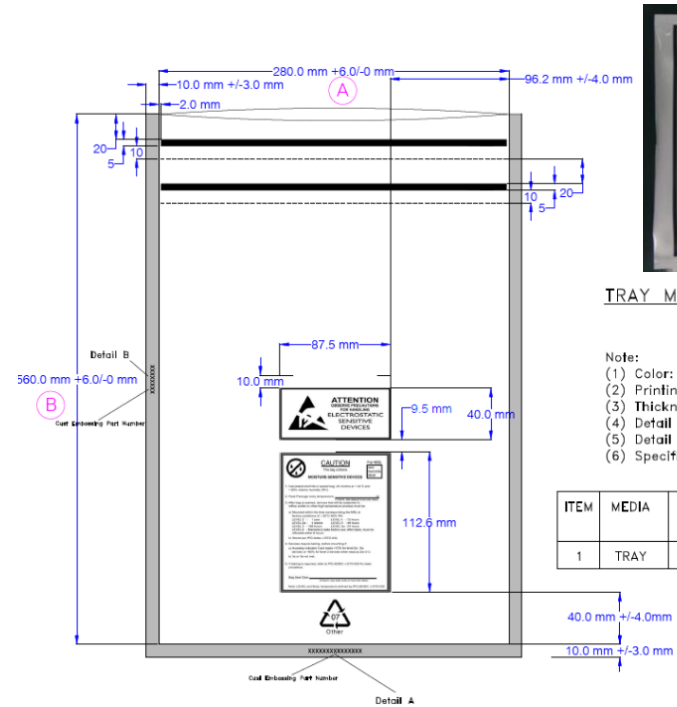


Pre and Post Change Summary – (36L FCCSP) Moisture Barrier Bag (MBB)

ASE9



MTAI



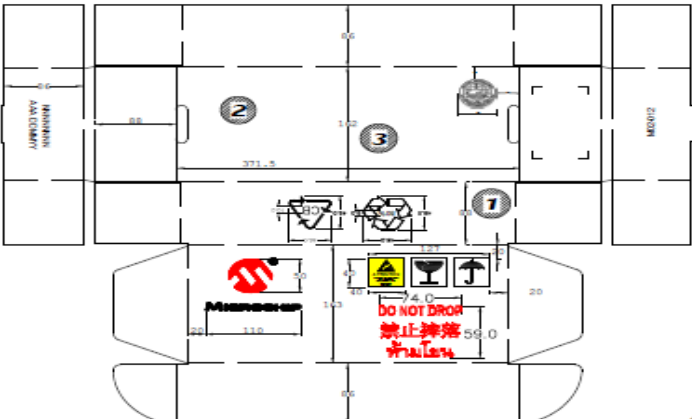
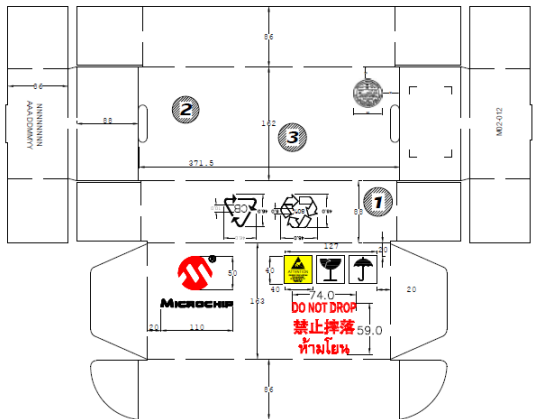







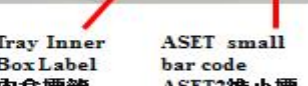

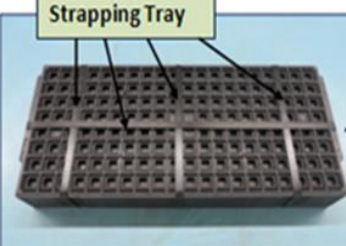
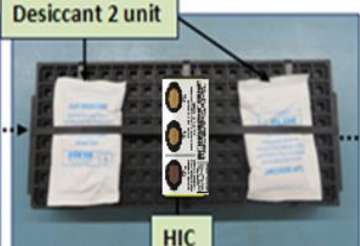



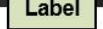
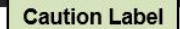
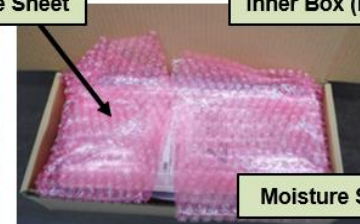
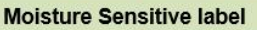


TRAY MOISTURE BARRIER BAG

- Note:
- (1) Color: Opaque in aluminum color
 - (2) Printing Color: Black
 - (3) Thickness: 6.7mils +/- 10% (0.67)
 - (4) Detail A: Supplier part number (Optional)
 - (5) Detail B: Microchip part number (Optional)
 - (6) Specification Reference: MS-15090

ITEM	MEDIA	WIDTH (+6/-0 MM)	LENGTH (+6/-0 MM)	SEAL (+/-3 MM)	MCHP P/N
1	TRAY	280	560	10	24000037

Plant	Length (mm)	Width (mm)	Thickness (mm)
ASE9	570	300	0.18
MTAI	560	280	0.1702

Pre and Post Change Summary – (36L FCCSP) Tray Packing Method

ASE9	MTAI
 <p>Diagram showing the layout of the ASE9 tray with numbered callouts 1, 2, and 3. The diagram includes dimensions and a warning label: "DO NOT DROP 禁止摔落 ห้ามโยน".</p>	 <p>Diagram showing the layout of the MTAI tray with numbered callouts 1, 2, and 3. The diagram includes dimensions and a warning label: "DO NOT DROP 禁止摔落 ห้ามโยน".</p>
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>1 CHAMFER 斜角</p>  <p>HIC 溼度指示卡</p>  <p>2 Chamfer 斜角</p>  <p>MBB 真空袋</p>  </div> <div style="width: 50%;"> <p>3 10+1 stack STRAPS (3SIL) 打包帶 (3短1長)</p>  <p>Bubble Wrap 粉紅氣泡布</p>  <p>MSID sticker MSID 標籤</p>  <p>4 Tray Inner Box Label 內盒標籤</p>  <p>ASET small bar code ASET2堆小標籤</p>  </div> </div> <p>Desiccant 1 units x 2 1單位乾燥劑 x2</p> <p>inner box Label 真空袋標籤</p> <p>膠帶 Tape</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <p>Strapping Tray</p>  </div> <div style="width: 33%;"> <p>Desiccant 2 unit</p>  <p>HIC</p>  </div> <div style="width: 33%;"> <p>MBB</p>  </div> </div> <div style="display: flex; flex-wrap: wrap; margin-top: 10px;"> <div style="width: 33%;"> <p>Bubble Sheet</p>  <p>Label</p>  <p>Caution Label</p>  </div> <div style="width: 33%;"> <p>Inner Box (M02-012)</p>  <p>Moisture Sensitive label</p>  </div> <div style="width: 33%;"> <p>Transparent Tape</p>  <p>Label</p>  </div> </div>



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: MFOL-06WDZP834

**Date:
September 24, 2020**

Qualification of MTAI as an additional final test site for selected Microsemi ENT products available in 138L QFN package. Microsemi ENT VSC849xxx, VSC722xxx, VSC751xxx, VSC848xxx, VSC334xxx, VSC822xxx, VSC824xxx and VSC865xxx device families available in 196L FCBGA, 144L FCCSP, 324L, 484L and 780L HFCBGA, 444L HSBGA, 64L TQFP and 172L VQFN packages. This is a qualification by similarity (QBS).

Purpose: Qualification of MTAI as an additional final test site for selected Microsemi ENT VSC849xxx, VSC722xxx, VSC751xxx, VSC848xxx, VSC334xxx, VSC822xxx, VSC824xxx and VSC865xxx device families available in 196L FCBGA, 144L FCCSP, 324L, 484L and 780L HFCBGA, 444L HSBGA, 64L TQFP and 172L VQFN packages. This is a qualification by similarity (QBS).

CCB No.: 3740, 3740.001, 3740.002, 3740.003, 3740.004 and 3740.007

Test / Evaluation	Test Conditions / Parameters	Result
<p>Test comparison</p>	<ul style="list-style-type: none"> • Select 50 good sample - test using the original platform and retest using destination platform. • The selected measured parameter should be within +/-10% variation between original and destination platform. 	<p>Passed</p>
<p>Fresh lot run</p>	<ul style="list-style-type: none"> • Select 1 fresh lot. Lot quantity is 3,000 units. Test using the new test location platform. Then cross correlate with original test location platform. • Bin to bin difference should be within 0.1%. 	<p>Passed</p>

Affected Catalog Part Numbers (CPN)

VSC8115XYA-05-T

VSC8115XYA-06-T

VSC3303YHV-01

VSC3304YHV-01