



Product Change Notification / CENO-21UTEV408

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**Date:**

27-Oct-2022

**Product Category:**

Crypto Authentication

**PCN Type:**

Manufacturing Change

**Notification Subject:**

CCB 5141 Final Notice: Qualification of MTAI as an additional final test site for selected ATECC108A-SSxxx-x, ATECC508A-SSxxx-x, ATECC608A-SSxxx-x, ATECC608B-SSxxx-x and ATSHA204A-SSxxx-x device families available in 8L SOIC (3.90mm) package.

**Affected CPNs:**

[CENO-21UTEV408\\_Affected\\_CPN\\_10272022.pdf](#)

[CENO-21UTEV408\\_Affected\\_CPN\\_10272022.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 ATECC108A-SSxxx-x, ATECC508A-SSxxx-x, ATECC608A-SSxxx-x, ATECC608B-SSxxx-x and ATSHA204A-SSxxx-x device families available in 8L SOIC (3.90mm) package.

**Pre and Post Change Summary:**

	Pre Change	Post Change
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Final Test Site		ASE Advanced Semiconductor (Shanghai) Co., Ltd (ASSH)	ASE Advanced Semiconductor (Shanghai) Co., Ltd (ASSH)	Microchip Technology Thailand (HQ) (MTAI)
Base Quantity Multiple (BQM)	Tape and Reel	4000	4000	4000
	Tube	100	100	100
Pin 1 Orientation	Tape and Reel	Black	Black	Black
		See Pre and Post Change Summary for Comparison.		
	Tube	Quadrant 1	Quadrant 1	Quadrant 1
		See Pre and Post Change Summary for Comparison.		
Carrier Tape		See Pre and Post Change Summary for Comparison.		
Cover Tape		See Pre and Post Change Summary for Comparison.		
Plastic Reel		See Pre and Post Change Summary for Comparison.		
Tube	Dimension	Minor dimensional changes. See Pre and Post Change Summary for Comparison.		
	Color	Clear	Clear	Clear
Desiccant and HIC		See Pre and Post Change Summary for Comparison.		
Packing Method		See Pre and Post Change Summary for Comparison.		

**Impacts to Data Sheet:**None

**Change Impact:**None

**Reason for Change:**To improve manufacturability by qualifying MTAI as an additional final test site.

**Change Implementation Status:**In Progress

**Estimated First Ship Date:**November 4, 2022 (date code: 2245)

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

**Time Table Summary:**

	June 2022					>	October 2022				November 2022				
Workweek	2	2	2	2	2		4	4	4	4	4	46	4	4	4
	2	3	4	5	6		1	2	3	4	5		7	8	9

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:**June 24, 2022: Issued initial notification.  
 October 27, 2022: Issued final notification. Updated affected CPN list to include catalog part numbers (CPN) released prior issuance of the Final PCN. Attached the qualification report and added estimated first ship date by November 04, 2022

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

**Attachments:**

- [PCN\\_CENO-21UTEV408 Pre\\_and\\_Post\\_Change\\_Summary.pdf](#)
- [PCN\\_CENO-21UTEV408\\_Qual Report.pdf](#)

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

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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 REPORT SUMMARY**  
RELIABILITY LABORATORY

**PCN #: CENO-21UTEV408**

**Date**  
**October 20, 2022**

**Qualification of MTAI as an additional final test site for selected ATECC108A-SSxxx-x, ATECC508A-SSxxx-x, ATECC608A-SSxxx-x, ATECC608B-SSxxx-x and ATSHA204A-SSxxx-x device families available in 8L SOIC (3.90mm) package.**

**Purpose:** Qualification of MTAI as an additional final test site for selected ATECC108A-SSxxx-x, ATECC508A-SSxxx-x, ATECC608A-SSxxx-x, ATECC608B-SSxxx-x and ATSHA204A-SSxxx-x device families available in 8L SOIC (3.90mm) package.

**CCB#** 5141

<b>Test</b>	<b>Parameters</b>	<b>Result</b>
Full Correlation	Lot size is > 5K <ul style="list-style-type: none"><li>• 100% test with FT for yield comparison</li><li>• Acceptance: Accept 1% delta or PE/TE approval</li><li>• Code verification, each die must be unique</li></ul>	<b>PASSED</b>

**CCB 5141**  
**Pre and Post Change Summary**  
**PCN #: CENO-21UTEV408**



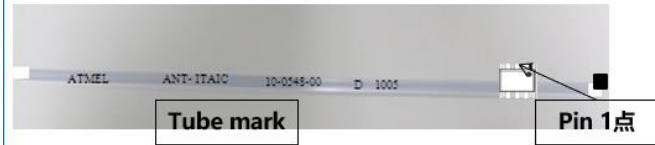
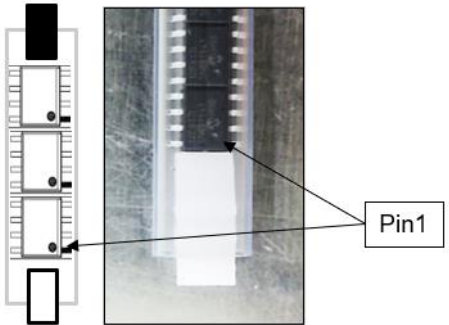
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SMART | CONNECTED | SECURE

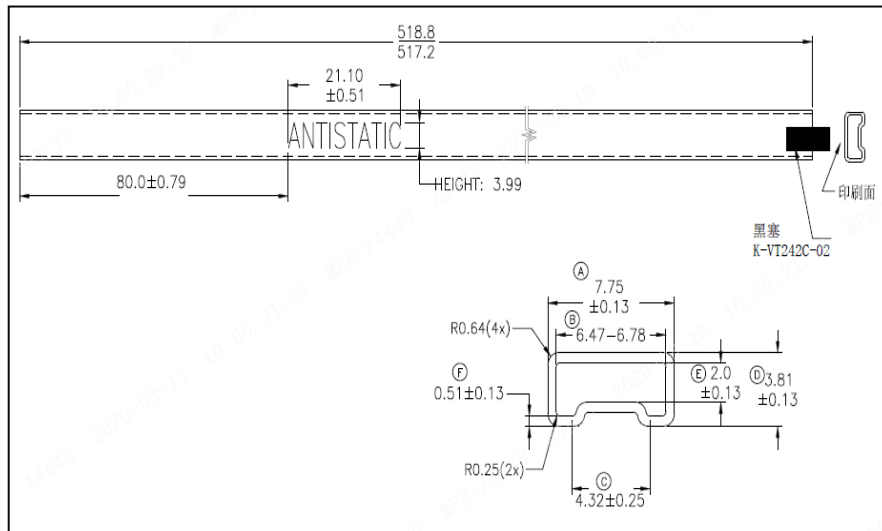
# Tube – BQM and Pin 1 Orientation

	(ASSH)	(MTAI)								
Base Quantity Multiple (BQM)	100 units/tube	100 units/tube								
Pin#1 orientation	 <table border="1" data-bbox="853 1099 1401 1263"> <thead> <tr> <th>Pin1 Side</th> <th>Opposite Side</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>White</td> </tr> </tbody> </table>	Pin1 Side	Opposite Side	Black	White	 <table border="1" data-bbox="1605 1099 2153 1263"> <thead> <tr> <th>Pin1 Side</th> <th>Opposite Side</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>Black</td> </tr> </tbody> </table>	Pin1 Side	Opposite Side	White	Black
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White	Black									



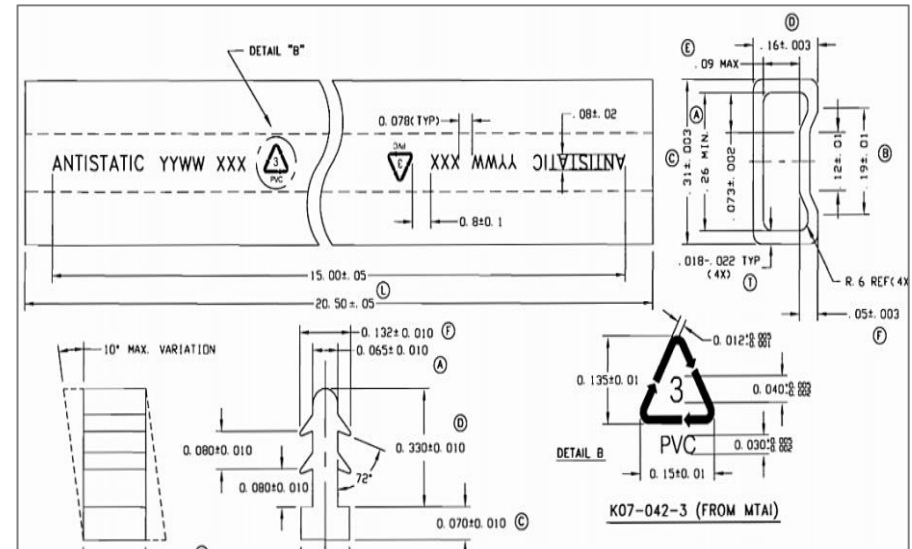
# Tube - Drawing

(ASSH)







Length	Dimension	Color
20.00 +/- 0.03 inch (518 +/- 0.8 mm)	See on drawing	Clear

(MTAI)




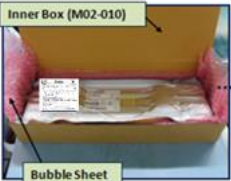
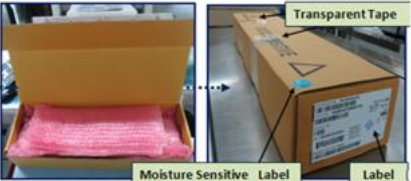


Length	Dimension	Color
20.50 +/- 0.05 inch (520.7 +/- 1.2 mm)	See on drawing	Clear

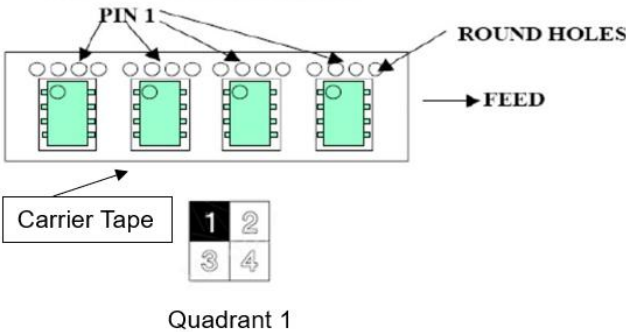
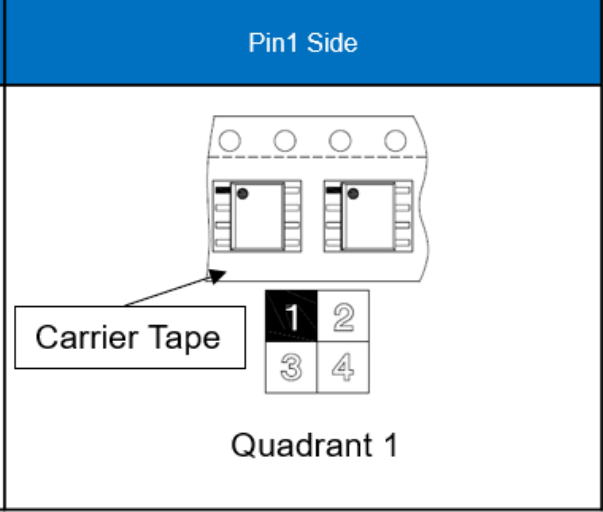
# Tube - Non Dry Packing Method

(ASSH)			(MTAI)																													
																																
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr style="background-color: #0070C0; color: white;"> <th>WIDTH</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">254mm</td> <td style="text-align: center;">762mm</td> </tr> </tbody> </table>			WIDTH	LENGTH	254mm	762mm	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr style="background-color: #0070C0; color: white;"> <th>WIDTH</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">160mm</td> <td style="text-align: center;">650mm</td> </tr> </tbody> </table>			WIDTH	LENGTH	160mm	650mm																			
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# Tube - Dry Pack Packing Method

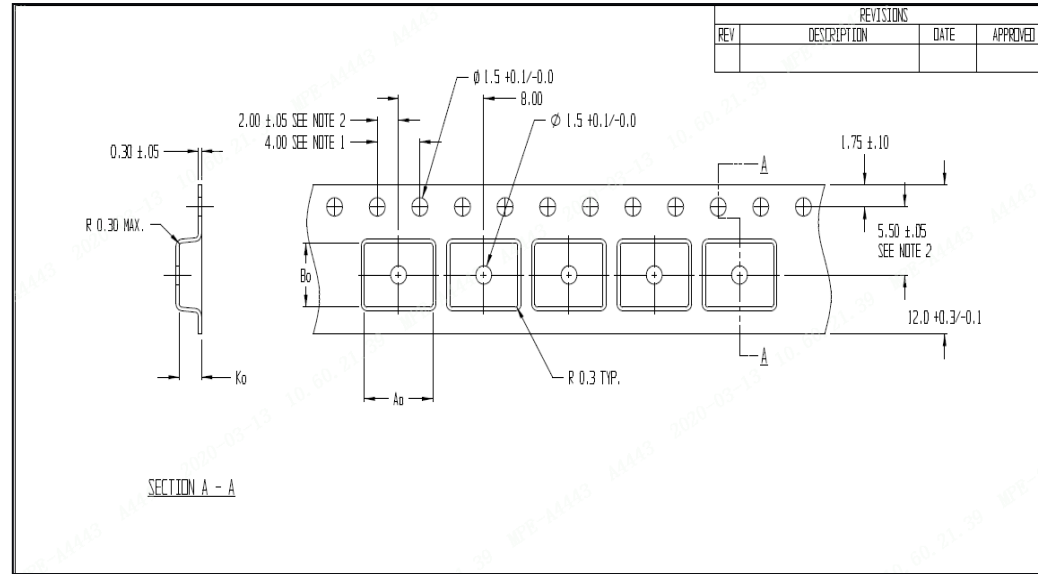
(ASSH)	(MTAI)																														
<p>No Dry Packing</p>	<div style="display: flex; flex-direction: column; align-items: center;">  <table border="1" data-bbox="1783 349 2063 442" style="margin: 5px;"> <thead> <tr> <th>WIDTH</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td>160</td> <td>650</td> </tr> </tbody> </table> <div style="display: flex; justify-content: space-around; width: 100%;">   </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;">   </div> </div> <table border="1" data-bbox="1401 892 2267 1249" style="width: 100%; margin-top: 20px;"> <thead> <tr> <th colspan="2">Inner box</th> <th colspan="2">Carton</th> <th rowspan="2">Number of Inner box(es) per carton</th> </tr> <tr> <th>Drawing number</th> <th>Dimension W x L x H (cm)</th> <th>Drawing number</th> <th>Dimension W x L x H (cm)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">M02-010</td> <td rowspan="5">12.9x56.5x8</td> <td>M01-022 (PP)</td> <td>15.5x62.0x14.0</td> <td>1 per 1</td> </tr> <tr> <td>M01-028 (C4)</td> <td>28x63.5x11</td> <td>2 per 1</td> </tr> <tr> <td>M01-029 (C6)</td> <td>28x63.5x15.5</td> <td>3 per 1</td> </tr> <tr> <td>M01-030 (C8)</td> <td>28x63.5x20</td> <td>4 per 1</td> </tr> <tr> <td>M01-040 (S6)</td> <td>43x59x19</td> <td>6 per 1</td> </tr> </tbody> </table>	WIDTH	LENGTH	160	650	Inner box		Carton		Number of Inner box(es) per carton	Drawing number	Dimension W x L x H (cm)	Drawing number	Dimension W x L x H (cm)	M02-010	12.9x56.5x8	M01-022 (PP)	15.5x62.0x14.0	1 per 1	M01-028 (C4)	28x63.5x11	2 per 1	M01-029 (C6)	28x63.5x15.5	3 per 1	M01-030 (C8)	28x63.5x20	4 per 1	M01-040 (S6)	43x59x19	6 per 1
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# Tape and Reel – BQM and Pin-1 Orientation

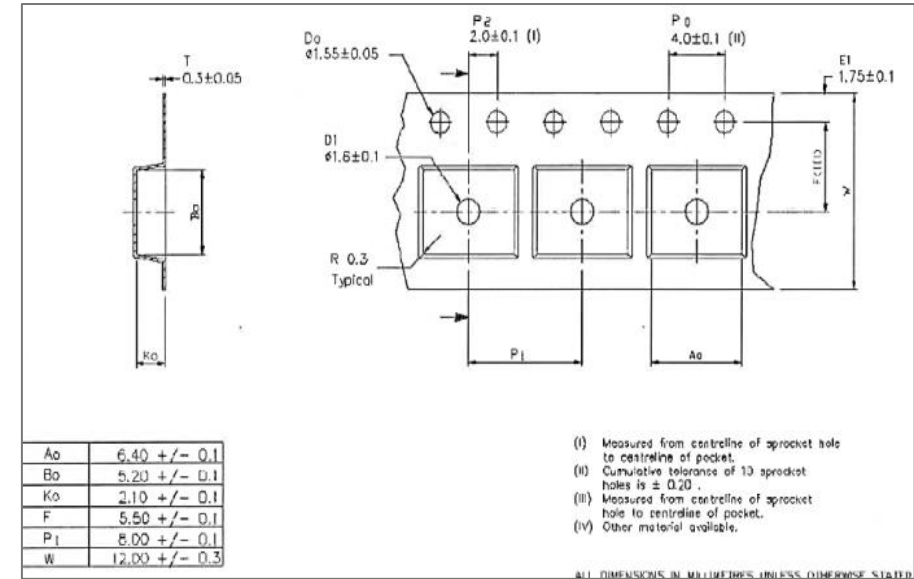
	(ASSH)	(MTAI)
Base Quantity Multiple (BQM)	4000 units/reel	4000 units/reel
Pin#1 orientation		

# Tape and Reel – Carrier Tape

## (ASSH)



## (MTAI)



Plant	W (mm.) $\pm 0.3$ or Specific	P (mm.) $\pm 0.1$ or Specific	A0 $\pm 0.1$ or Specific	B0 $\pm 0.1$ or Specific	K0 $\pm 0.1$ or Specific	Thickness
ASSH	12	8	6.40	5.20	2.10	-
MTAI	12	8	6.40	5.20	2.10	-

# Tape and Reel – Cover Tape

(ASSH)

(MTAI)

**REVISIONS**

REV	DESCRIPTION	DATE	INT
1	Initial Release for Customer Approval	11/02/2011	NSI

Part number	Width(mm)	Length (M)
ABX005A-111-1111	5.3	
ABX005A-111-2111	5.4	
ABX005A-111-3111	5.5	
ABX005A-111-4111	5.2	
ABX005A-111-5111	5.3	
ABX005A-111-6111	5.5	
ABX011A-111-1111	11.1	
ABX013A-111-1111	13.3	
ABX015A-111-1111	15.5	
ABX020A-111-1111	20.5	
ABX021A-111-1111	21.0	
ABX021A-111-2111	21.3	
ABX021A-111-3111	21.5	
ABX025A-111-1111	25.5	
ABX026A-111-1111	26.0	
ABX030A-111-1111	30.0	300,500,1000...etc.
ABX031A-111-1111	30.1	
ABX037A-111-1111	37.5	
ABX048A-111-1111	48.5	
ABX068A-111-1111	68.5	
ABX081A-111-1111	81.5	
ABX097A-111-1111	97.5	
ABX113A-111-1111	113.5	
ABX126A-111-1111	126.5	

**PART NO.**      **REV#**

ABXXXX or ABXXXX-yyy      xxxxx=width type  
 or ABXXXX-yyy      (i.e. 0053=5.30 mm, 0375=37.5 mm)

-yyy or -yyyy=Length (i.e. -300=300 M, -1000=1000 M)

Without suffix "-yyy or -yyyy" the length is 300 M

**NOTE:**

- Tape width tolerance  $\pm 0.10$  mm (Nominal Tape width (W) < 65.5 mm)  
 -Tape width tolerance  $\pm 0.15$  mm (65.5 mm < Nominal Tape width (W) < 81.5 mm)  
 -Tape width tolerance  $\pm 0.20$  mm (81.5 mm < Nominal Tape width (W) < 113.5 mm)  
 -Tape width tolerance  $\pm 0.25$  mm (113.5 mm < Nominal Tape width (W) < 145.5 mm)  
 -Tape width tolerance  $\pm 0.30$  mm (145.5 mm < Nominal Tape width (W) )
- Length (M): -yyy =5±0 M or -yyyy =5±0 M, where yyy or yyyy=Length
- Please refer to Tech Bulletins for related properties of ABx.
- The color of side view on ABx: Green/Gray
- Plastic core width dimension refer to below table

**STRUCTURE**

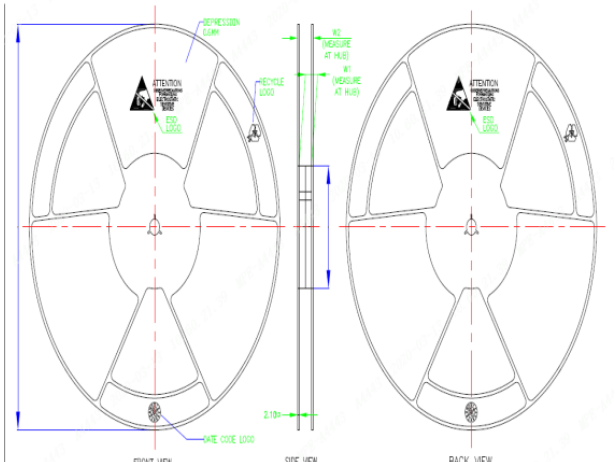
- Reinforced Base Layer
- Intermediate Layer
- Adhesive Layer
- Static Dissipative Sealant Layer
- Anti-static Layer

Plant	Carrier Width	Width "W" (mm)	Thickness (mm)	Sealing Mythology
ASSH	12mm	9.2+/-0.07	0.053 ±0.005	Heat seal
MTAI	12mm	9.05+0.05/-0.15	0.050 ±0.010	Heat seal

# Tape and Reel – Plastic Reel



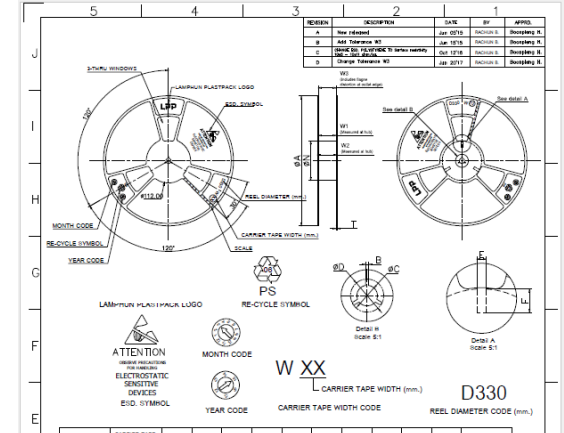
## (ASSH)

## (MTAI)



PRODUCT SPECIFICATIONS				
TAPE WIDTH (mm)	WAVE	WAVE	WAVE	WAVE
12MM	330	100	12.4	18.4
18MM	330	100	16.4	23.4
24MM	330	100	24.4	31.4
30MM	330	100	32.4	39.4
40MM	330	100	44.4	51.4

NOTE:  
1. PRODUCT DRAWING ONLY







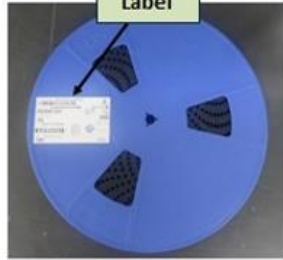
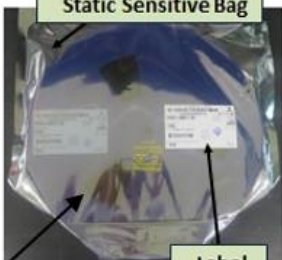

PART NUMBER IDENTIFICATION										
PART NO.	CARRIER TAPE WIDTH (mm)	WAVE	WAVE	WAVE	WAVE	WAVE	WAVE	WAVE	WAVE	WAVE
R13-12-04-E	12	330	1.65	13.00	22.00	2.80	10	100	2.80	18.40
R13-18-04-E	18	330	1.65	13.00	22.00	2.80	10	100	2.80	23.40
R13-24-04-E	24	330	1.65	13.00	22.00	2.80	10	100	2.80	31.40
R13-30-04-E	30	330	1.65	13.00	22.00	2.80	10	100	2.80	39.40
R13-40-04-E	40	330	1.65	13.00	22.00	2.80	10	100	2.80	51.40

MATERIAL CODE  
High impact polystyrene stylen.  
E = EPO POLYSTYRENE (Surface resistivity 10<sup>10</sup> - 10<sup>11</sup> ohm/sq)  
C = CONDUCTIVE POLYSTYRENE (Surface resistivity 10<sup>4</sup> - 10<sup>6</sup>ohm/sq)  
P = NORMAL POLYSTYRENE

NOTES:  
1. Colors : Dark blue  
2. Surface resistivity should be 10<sup>9</sup>-10<sup>11</sup> ohm/sq  
3. All dimensions in millimeters unless otherwise stated.  
4. Unspecified dimension tolerance should be ±0.200 mm.  
5. Month/Year code on flang should be same manufactory month.  
6. Month code on flang should be same hub width.  
7. Must conform to EIA standard.

Plant	Width	Hub	Color
ASSH	12mm	4inch (100mm)	White
MTAI	12mm	4inch (100mm)	Dark Blue

# Tape and Reel – Non-Dry Packing Method

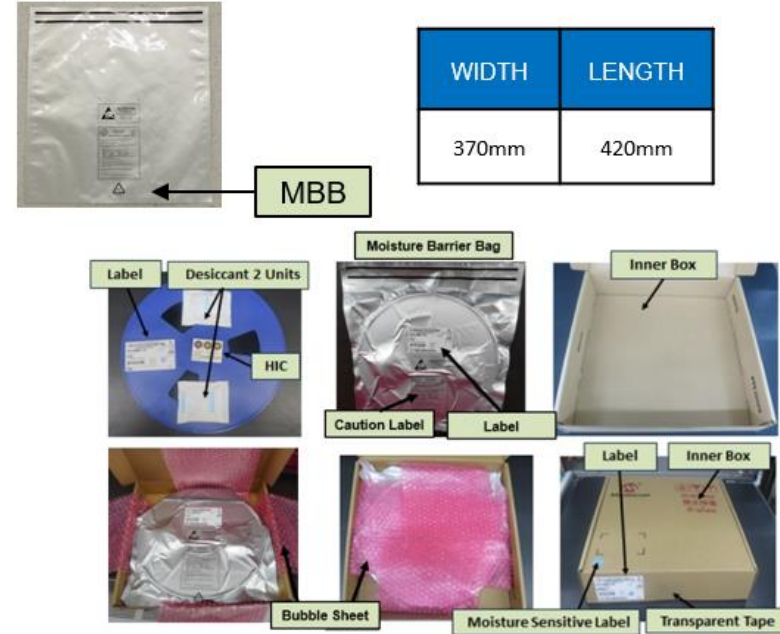
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# Tape and Reel –Dry Pack

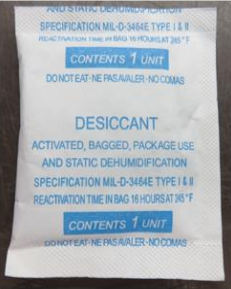
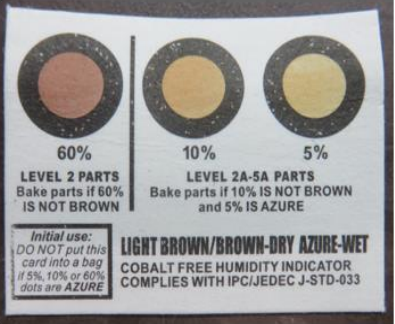
(ASSH)	(MTAI)
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No Dry Packing



Inner box		Carton		Number of Inner box(es) per carton
Drawing number	Dimension	Drawing number	Dimension	
	W x L x H (cm)		W x L x H (cm)	
M02-015 (Small)	37x35.1x5.3	M01-044 (SM)	37.0x38.0x11.0	1 : 1
		M01-045 (S4)	37.0x38.0x22.5	3 : 1
		M01-046 (S5)	37.0x39.0x39.0	6 : 1
		M01-047 (S3)	42.0x66.0x39.0	11 : 1

# Desiccant and HIC

	(ASSH)	(MTAI)
Desiccant	No desiccant	 <p>Compliant with Mil-D-3464, TYPE I and II</p>
HIC	No HIC	 <p>3 Dots Cobalt free only</p>

CENO-21UTEV408 - CCB 514 ATECC508, ATECC608, ATECC608B-SSxxx-x and ATSHA204A-SSxxx-x device famil

Affected Catalog Part Numbers(CPN)

ATECC608B-SSHMD-B  
ATECC608B-SSHCZ-B  
ATECC608B-SSHDA-B  
ATECC608A-SSHMD-B  
ATECC108A-SSHDA-B  
ATECC108A-SSHCZ-B  
ATECC508A-SSHDA-B  
ATECC508A-SSHCZ-B  
ATECC508A-SSHHL-B  
ATECC508A-SSHRA-B  
ATECC508A-SSHMT-B  
ATECC608A-SSHDA-B  
ATECC608A-SSHCZ-B  
ATECC608A-SSHHL-B  
ATECC508A-SSH1P-T  
ATECC608B-SSVDA-B  
ATECC608B-SSVHL-T  
ATECC608B-SSVDA-T  
ATECC608B-SSHHL-T  
ATECC108A-SSHDA-T  
ATECC108A-SSHCZ-T  
ATECC508A-SSHDA-T  
ATECC508A-SSHCZ-T  
ATECC508A-SSHHL-T  
ATECC508A-SSHRA-T  
ATECC508A-SSHMT-T  
ATECC508A-SSHZC-T  
ATECC508A-SSHZJ-T  
ATECC508A-SSHAW-T  
ATECC508A-SSHWA-T  
ATECC508A-SSHC9-T  
ATECC608A-SSHDA-T  
ATECC608A-SSHCZ-T  
ATECC608A-SSHHL-T  
ATECC608A-SSH4P-T  
ATECC508A-SSH1F-T  
ATECC508A-SSH1M-T  
ATECC608A-SSH4N-T  
ATECC508A-SSHC6-T  
ATECC508A-SSH1L-T  
ATECC608A-SSH2P-T  
ATECC608A-SSH3M-T

ATECC608B-SSH3S-T  
ATECC608B-SSHA5-T  
ATECC608B-SSHA6-T  
ATECC608B-SSHCZ-T  
ATECC608B-SSHDA-T  
ATECC608A-SSHGA-T  
ATECC608B-SSHKA-T  
ATECC608A-SSHXA-T  
ATSHA204A-SSHMD-B  
ATSHA204A-SSHDA-B  
ATSHA204A-SSH1S-B  
ATSHA204A-SSHDA-T  
ATSHA204A-SSHCZ-T