



## Product Change Notification / CAAN-16DKQN290

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**Date:**

26-Aug-2022

**Product Category:**

Memory

**PCN Type:**

Manufacturing Change

**Notification Subject:**

CCB 5112 Initial Notice: Qualification of MTAI as a new final test site for selected SST49LF008A and SST49LF080A device families available in 32L TSOP (8x14mm) and 32L PLCC (11.5x14x3.37mm) packages.

**Affected CPNs:**

[CAAN-16DKQN290\\_Affected\\_CPN\\_08262022.pdf](#)

[CAAN-16DKQN290\\_Affected\\_CPN\\_08262022.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 a new final test site for selected SST49LF008A and SST49LF080A device families available in 32L TSOP (8x14mm) and 32L PLCC (11.5x14x3.37mm) packages.

**Pre and Post Change Summary:**

For 32L TSOP (8x14mm) package:

		Pre Change	Post Change
Final Test Site		King Yuan Electronics Company, Limited  (KYE)	Microchip Technology Thailand (HQ)  (MTAI)
Base Quantity Multiple	Tray	208	208
	Tape and Reel	1500	1500
Pin 1 Orientation	Tray	Near Tray's Notch	Near Tray's Notch
	Tape and Reel	Quadrant 2	Quadrant 2
Carrier Tape (Tape and Reel)		No dimensional changes (See attached Pre and Post comparison)	
Plastic Reel		With minor dimensional changes (See attached Pre and Post comparison)	
Cover Tape		With minor dimensional changes (See attached Pre and Post comparison)	
Packing Method	Tray	See Attached Pre and Post Comparison	
	Tape and Reel	See Attached Pre and Post Comparison	

For 32L PLCC (11.5x14x3.37mm) package:

		Pre Change	Post Change
Final Test Site		King Yuan Electronics Company, Limited (KYE)	Microchip Technology Thailand (HQ) (MTAI)
Base Quantity Multiple (BQM)	Tape and Reel	750	750
	Tube	30	30
Pin 1 Orientation	Tape and Reel	Quadrant 1 - 2	Quadrant 1 - 2
	Tube (Note: Pre-change - Pin 1 orientation is	Gray stopper - MMT Tube Colored stopper - LPI Tube	Gray stopper – MMT Tube



**Method to Identify Change:**Traceability code

**Qualification Plan:**Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Plan.

**Revision History:**August 26, 2022: 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\\_CAAN-16DKQN290\\_Pre and Post Change \(1\).pdf](#)

[PCN\\_CAAN-16DKQN290\\_Pre and Post Change \(2\).pdf](#)

[PCN\\_CAAN-16DKQN290\\_Qualification Plan.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 5112**  
**Pre and Post Change Summary**  
**PCN #:CAAN-16DKQN290**  
**32L PLCC (11.5x14x3.37mm) package**



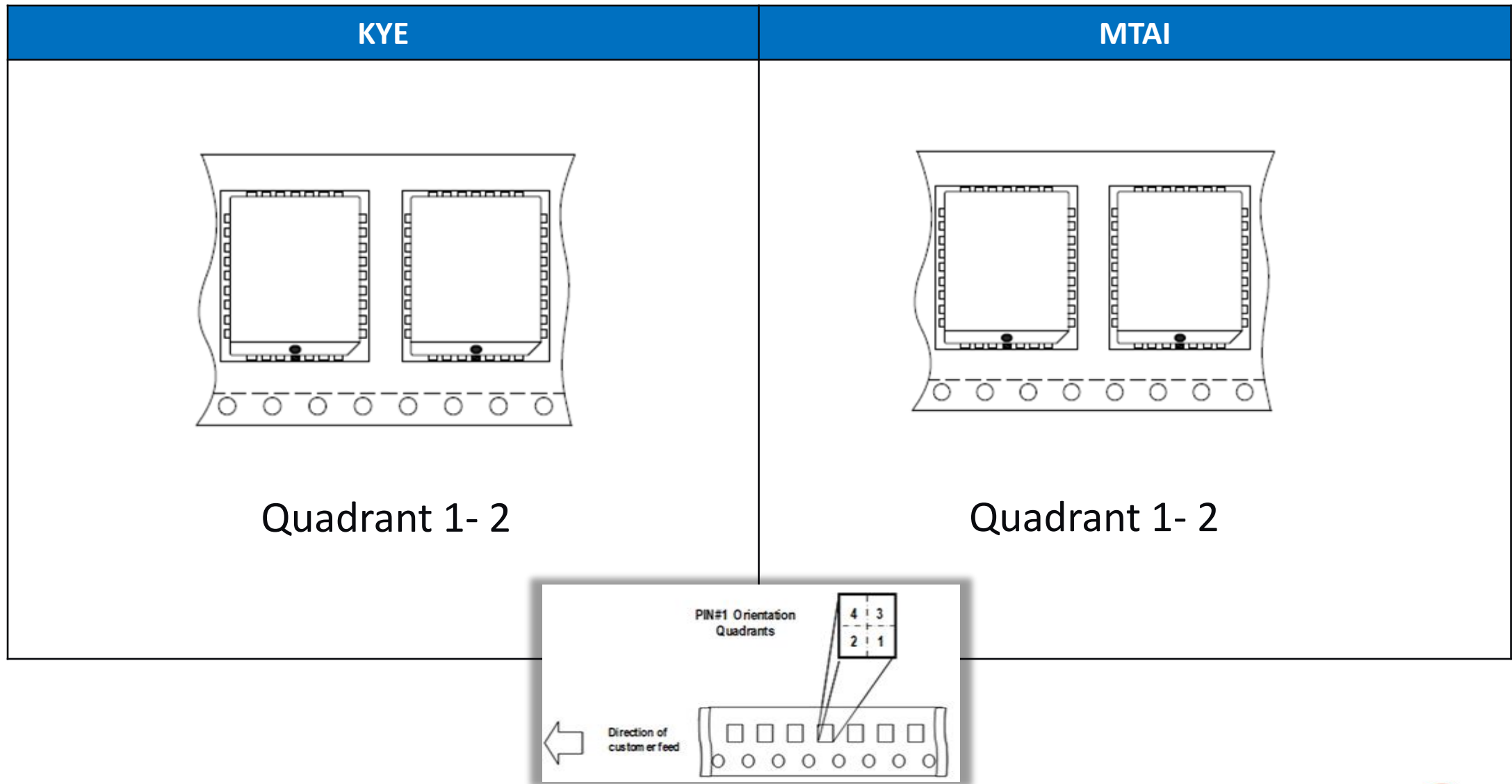
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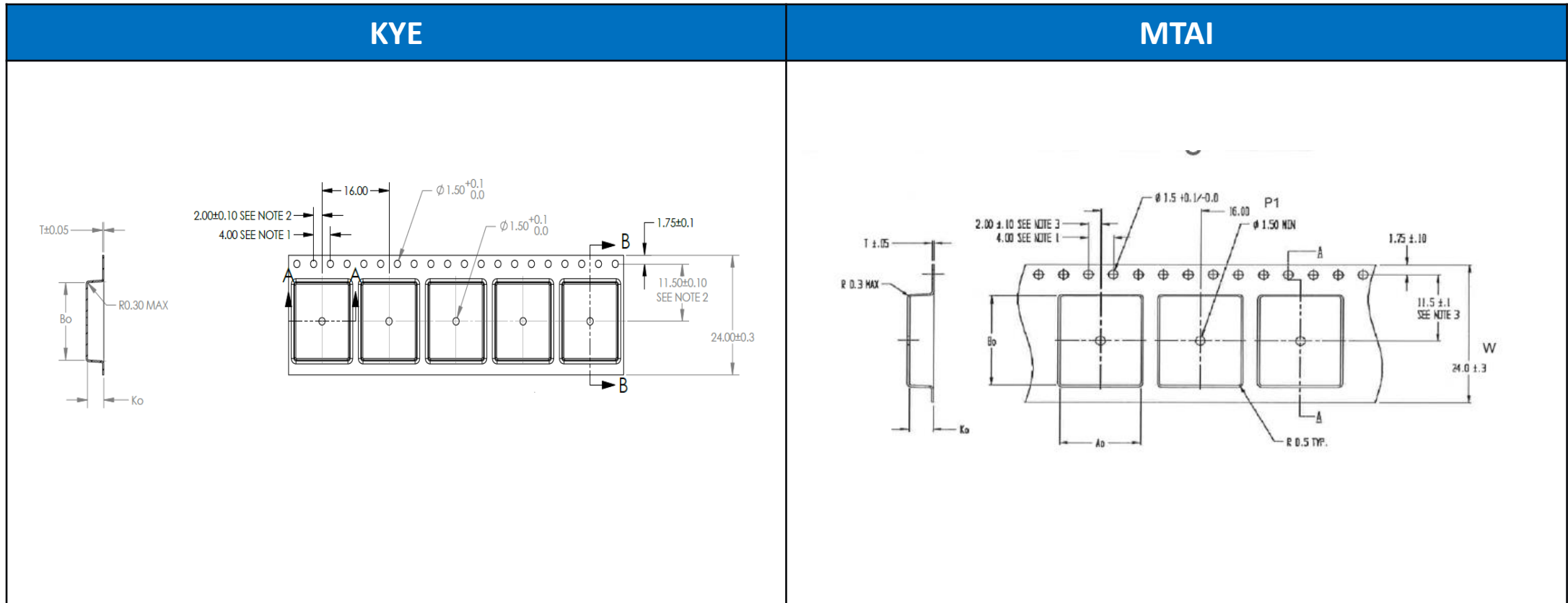


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# Tape and Reel – Pin 1 Orientation

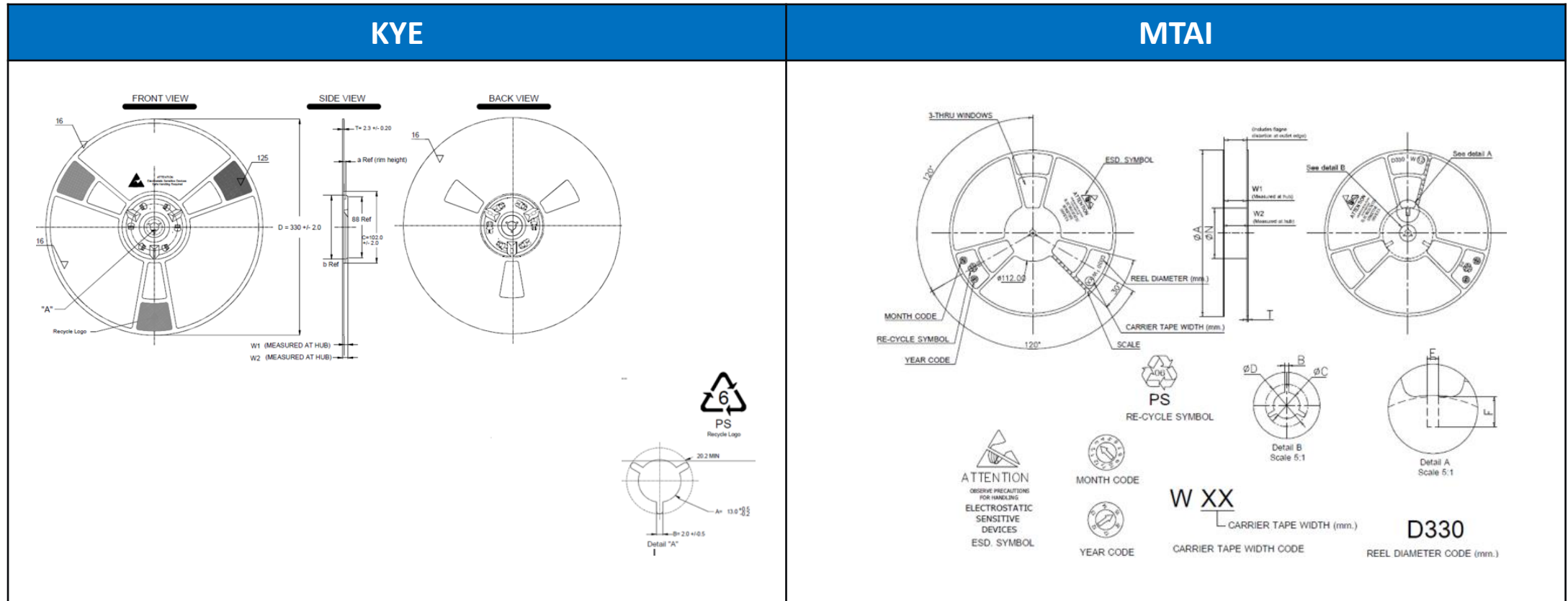


# Tape and Reel – Carrier Tape



Scan / Pack Site	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM
MTAI	24.00 ±0.30	16.00 ±0.10	13.10 ±0.10	15.50 ±0.10	3.90 ±0.10	-	0.30 ±0.50	750
KYE	24.00 ±0.30	16.00 ±0.10	13.10 ±0.10	15.50 ±0.10	3.90 ±0.10	-	0.30 ±0.05	750

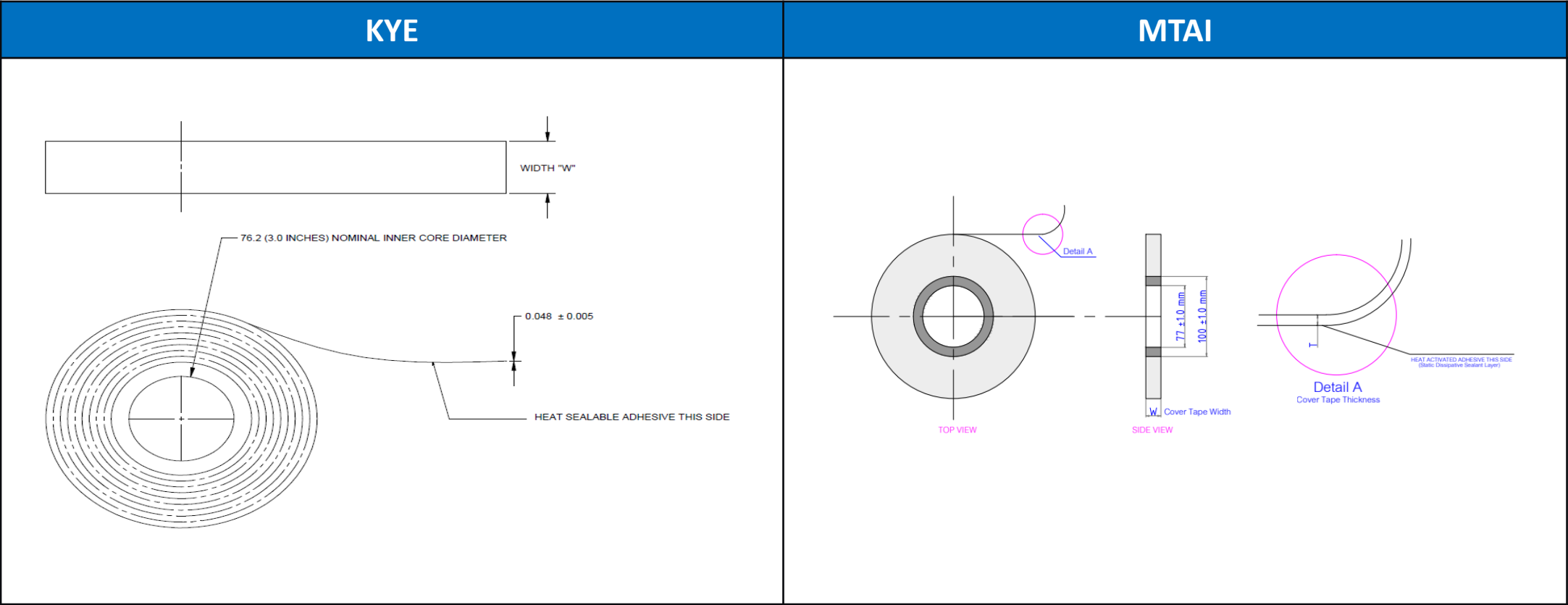
# Tape and Reel – Plastic Reel



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
MTAI	330 ±2.0	100 ±2.0	30.40	Dark Blue
KYE	330 ±2.0	102±2.0	8.4 + 16.4	Regrind Blue

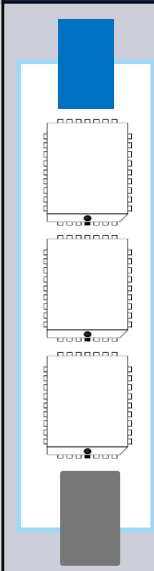
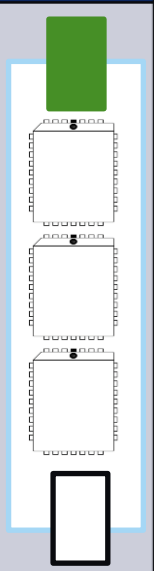
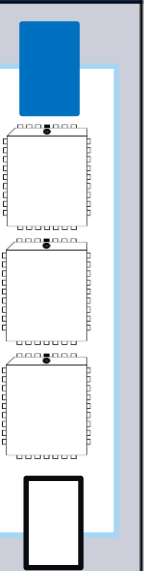
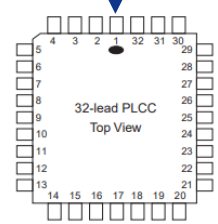
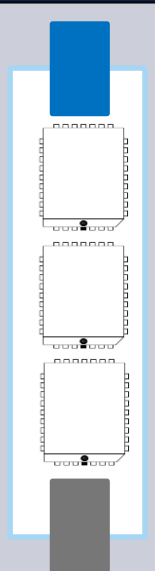
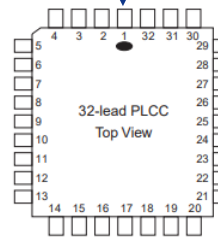


# Tape and Reel – Cover Tape

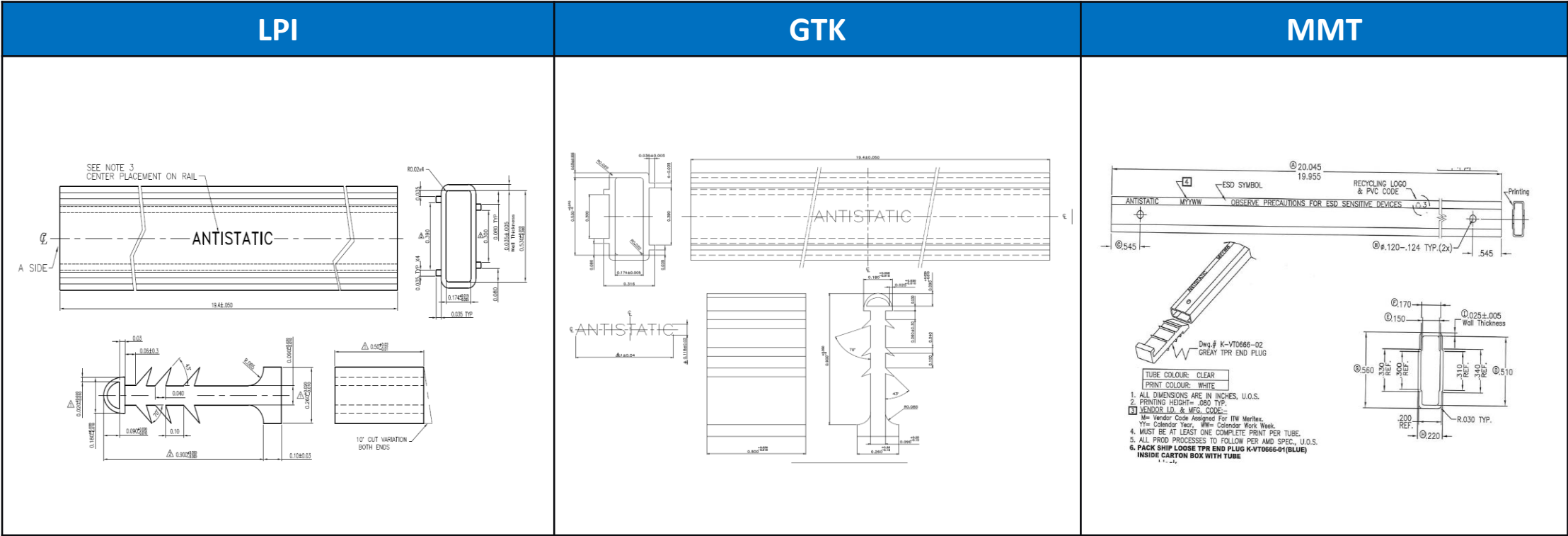


Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
MTAI	21.0 ±0.1	0.050 ±0.010	Clear	Heat Seal
KYE	21.3±0.1	0.048±0.005	Transparent	Heat Seal

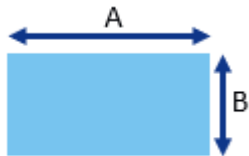
# Tube – Pin 1 Orientation

KYE				MTAI																											
<div><div><div>MMT</div><div></div></div><div><div>LPI</div><div></div></div><div><div>GTK</div><div></div></div></div> <div><div>Pin#1</div><div></div></div>				<div><div><div>MMT</div><div></div></div><div><div>LPI</div><div>N/A</div></div><div><div>GTK</div><div>N/A</div></div></div> <div><div>Pin#1</div><div></div></div>																											
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# Tube – Dimensions




Tube	Scan / Pack Site	Tube Length (in)	Dimension A (in)	Dimension B (in)	Tube Color
MMT	KYE, MTAI	20.045	0.510	0.150	Clear
LPI	KYE	19.4	0.53	0.174	Clear
GTK	KYE	19.4	0.53	0.174	Clear



# Tape and Reel – Packing Method

KYE	MTAI
<div data-bbox="231 264 680 642"></div> <div data-bbox="698 264 1161 642"></div> <div data-bbox="231 662 680 1005"></div> <div data-bbox="698 662 1161 1005"></div>	<div data-bbox="1302 272 1633 622"><p>Label</p><p>Desiccant 2 Units</p><p>HIC</p></div> <div data-bbox="1666 272 1972 622"><p>Moisture Barrier Bag</p><p>Caution Label</p><p>Label</p></div> <div data-bbox="2015 305 2364 622"><p>Inner Box</p></div> <div data-bbox="1327 642 1623 939"><p>Bubble Sheet</p></div> <div data-bbox="1684 654 1982 939"><p>Moisture Sensitive Label</p></div> <div data-bbox="2023 634 2364 958"><p>Label</p><p>Inner Box</p><p>Transparent Tape</p></div>

# Tube – Packing Method

KYE	MTAI
	

Scan/Pack Site	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition
MTAI	MSL-3	2 units	1 pcs	6 hours @125°C
KYE	MSL-3	2 units	1 pcs	6 hours @125°C

**CCB 5112**  
**Pre and Post Change Summary**  
**PCN #:CAAN-16DKQN290**  
**32L TSOP (8x14mm) package**



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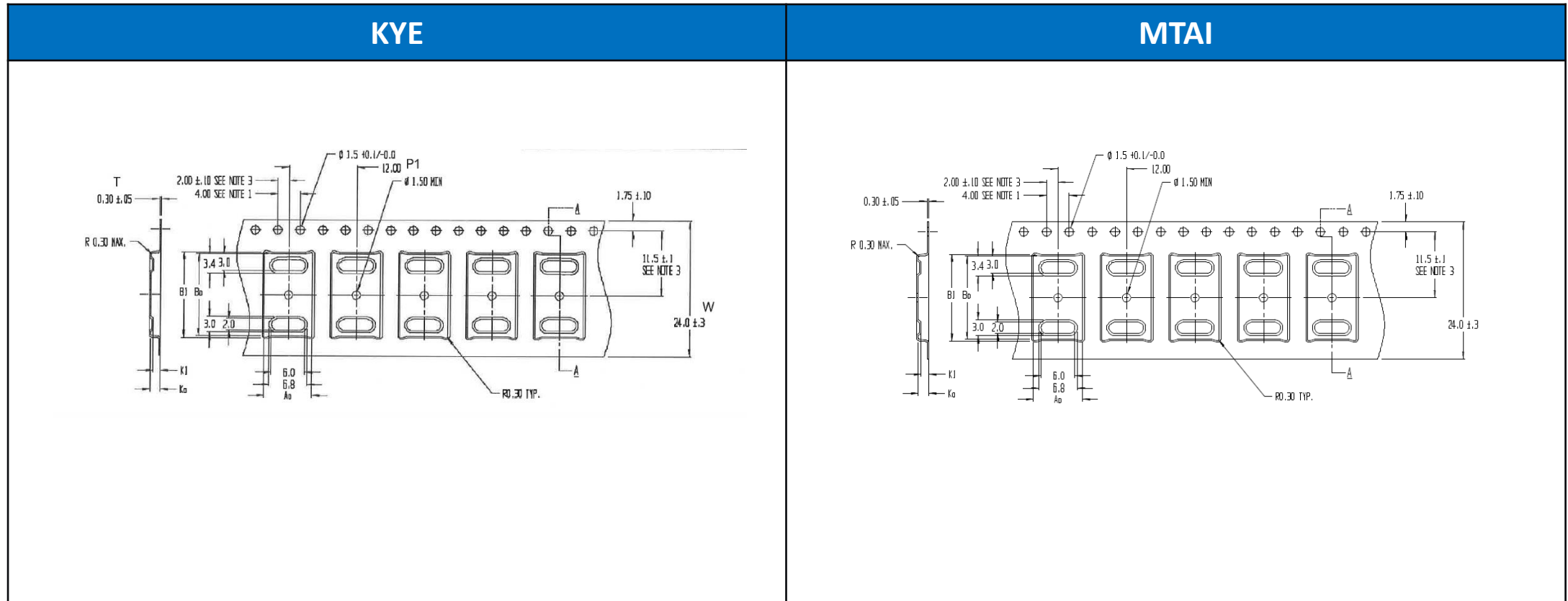
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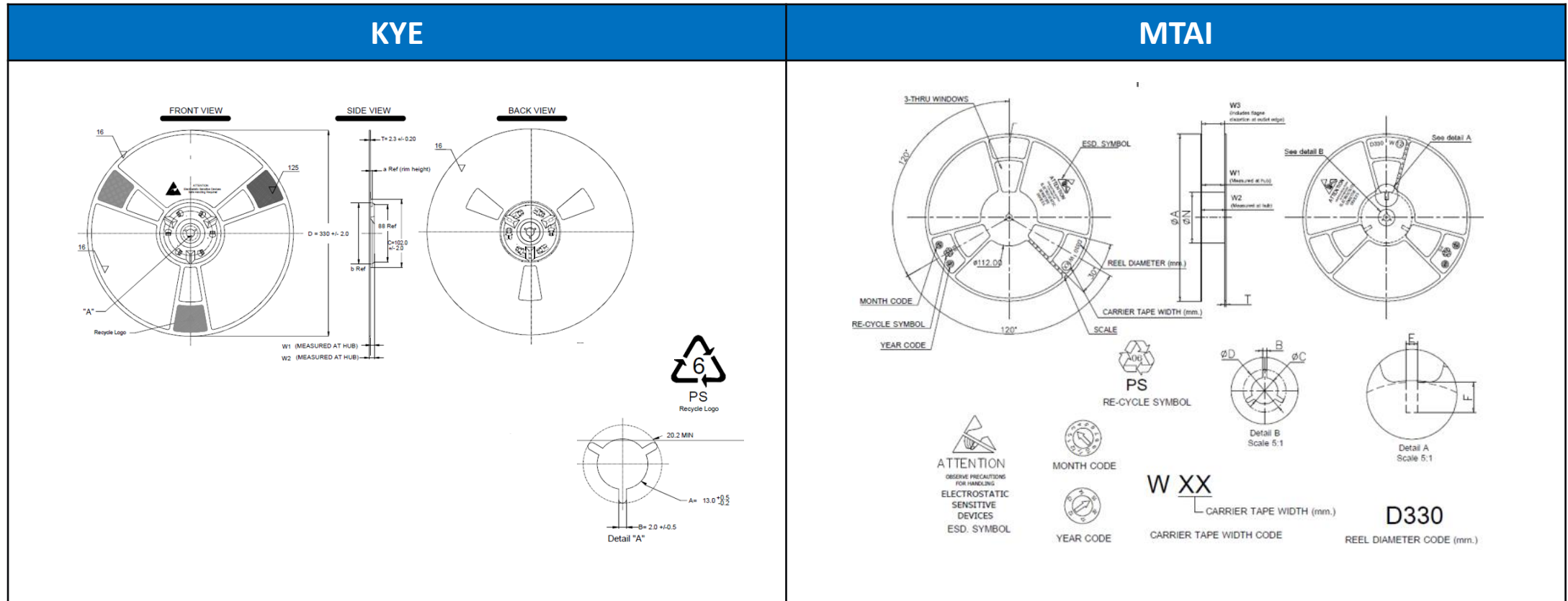


# Tape and Reel – Carrier Tape



Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM	Pin1
MTAI	24.00±0.30	12.00±0.10	8.60±0.10	14.50±0.10	1.80±0.10	1.30±0.10	0.30±0.05	1500	Quadrant 2
KYE	24.00±0.30	12.00±0.10	8.60±0.10	14.50±0.10	1.80±0.10	1.30±0.10	0.30±0.05	1500	Quadrant 2

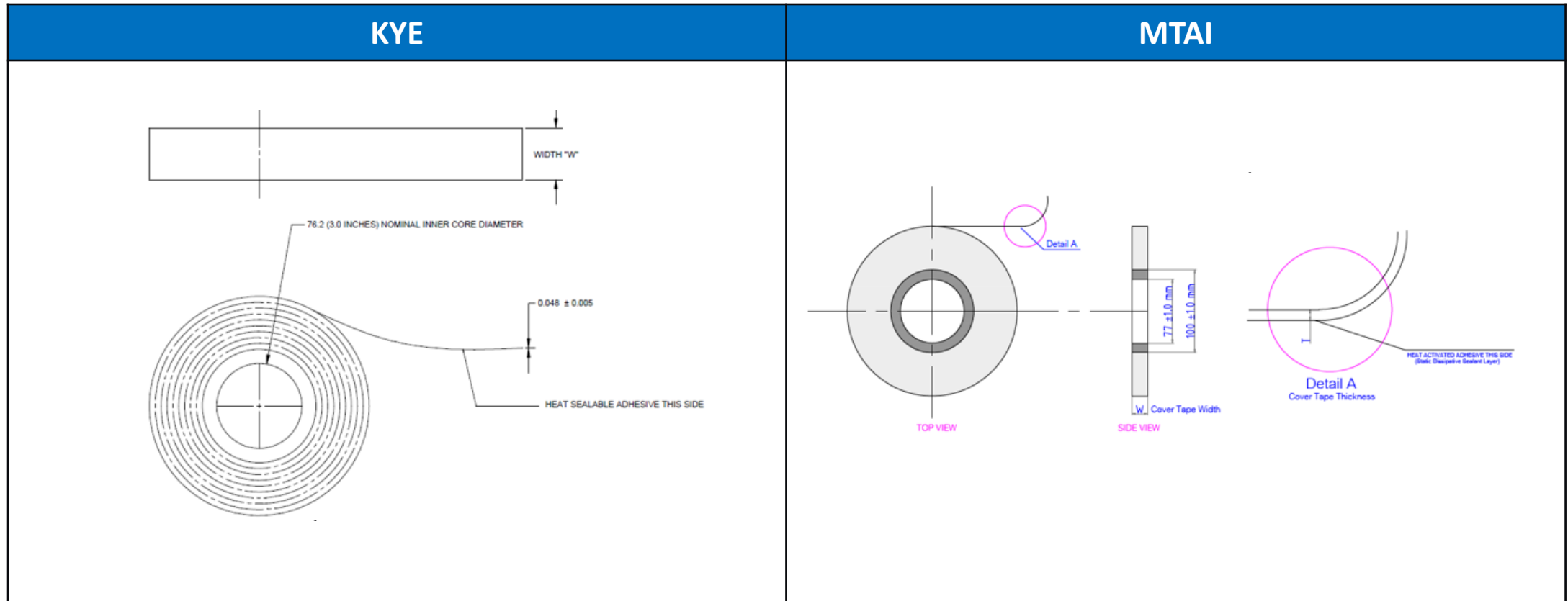
# Tape and Reel – Plastic Reel



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
MTAI	330 ±2.0	100 ±2.0	30.4	Dark Blue
KYE	330 ±2.0	102±2.0	11.1 + = 30.2 19.1	Regrind Blue

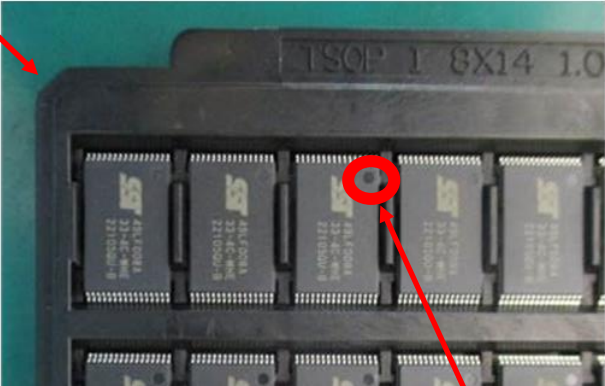
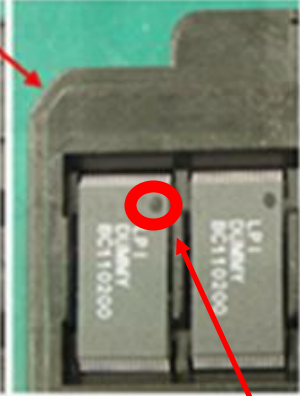


# Tape and Reel – Cover Tape

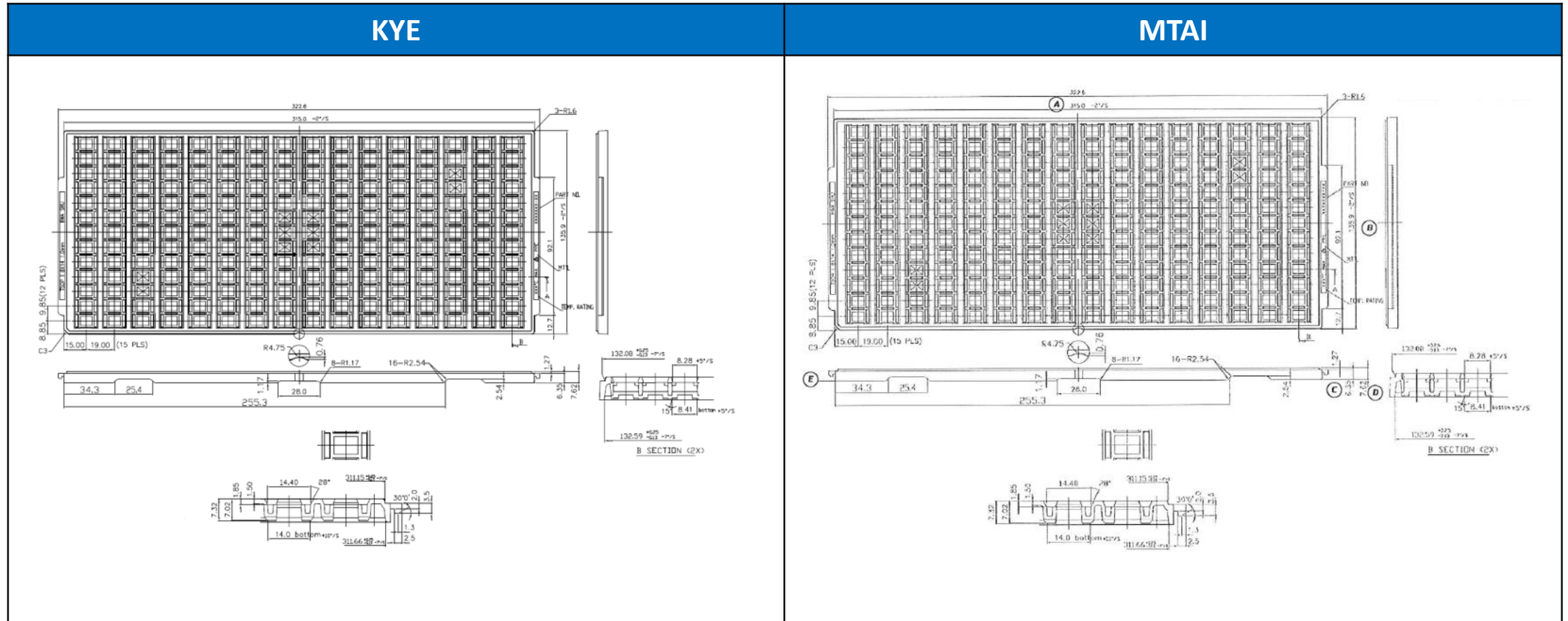


Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
MTAI	21.0 $\pm$ 0.1	0.050 $\pm$ 0.010	Clear	Heat Seal
KYE	21.3 $\pm$ 0.1	0.048 $\pm$ 0.005	Transparent	Heat Seal

# Tray – Pin1 Orientation

KYE	MTAI
<p data-bbox="287 391 443 419">Tray's notch</p>  <p data-bbox="950 891 1128 919">Pin1 indicator</p> <p>The photograph shows a black plastic tray for KYE components. The top of the tray is labeled 'TSOP 1 8X14 1.0'. Inside the tray, several integrated circuit chips are visible. A red circle highlights a small circular feature on the top of one of the chips, which is identified as the Pin1 indicator. A red arrow points to the notch on the left side of the tray, labeled 'Tray's notch'. Another red arrow points from the text 'Pin1 indicator' to the highlighted circle on the chip.</p>	<p data-bbox="1485 419 1640 448">Tray's notch</p>  <p data-bbox="2071 912 2249 941">Pin1 indicator</p> <p>The photograph shows a black plastic tray for MTAI components. A red circle highlights a small circular feature on the top of one of the chips, which is identified as the Pin1 indicator. A red arrow points to the notch on the left side of the tray, labeled 'Tray's notch'. Another red arrow points from the text 'Pin1 indicator' to the highlighted circle on the chip.</p>

# Tray - 32L TSOP (8x14mm) Package and MSL level (MSL-3)



Plant	Bakeable (Temp C )	Row	Col	Unit per Tray	Color	Tray Stack
MTAI	150C	13	16	208	Black	10+1
KYE	150C	13	16	208	Black	10+1

# Tape and Reel – Packing Method


KYE	MTAI
	

Plant	MSL Level	Desiccant	Humidity Indicator Card
MTHAI	MSL-3	2 units	1 pcs
KYE	MSL-3	2 units	1 pcs

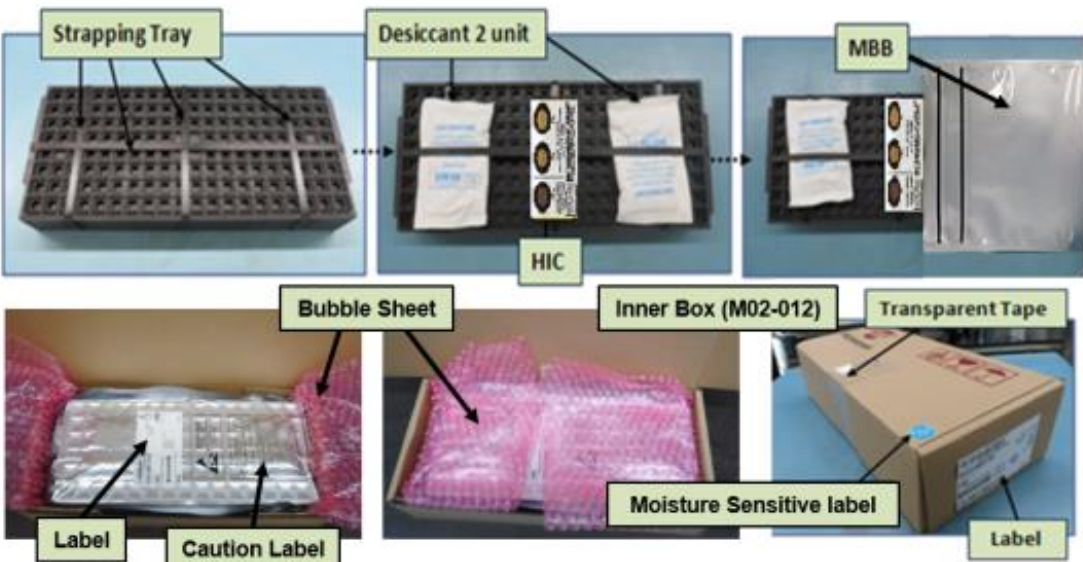


# Tray– Packing Method

KYE



MTAI



Plant	MSL Level	Desiccant	Humidity Indicator Card	Package code	Baking Condition
MTAI	MSL-3	2 units	1 pcs	W6X	2 hours @125C
KYE	MSL-3	2 units	1 pcs	W6X	2 hours @125C

CAAN-16DKQN290 - CCB 5112 Initial Notice: Qualification of MTAI as a new final test site for selected SST49LF008A and SST49LF080A device families available in 32L TSOP (8x14mm) and 32L PLCC (11.5x14x3.37mm) packages.

Affected Catalog Part Numbers(CPN)

SST49LF008A-33-4C-NHE  
SST49LF008A-33-4C-NHE-T  
SST49LF008A-33-4C-WHE  
SST49LF008A-33-4C-WHE-T  
SST49LF080A-33-4C-NHE  
SST49LF080A-33-4C-NHE-T



**QUALIFICATION PLAN SUMMARY**  
RELIABILITY LABORATORY

**PCN #: CAAN-16DKQN290**

**Date**  
**August 11, 2022**

**Qualification of MTAI as a new final test site for selected SST49LF008A and SST49LF080A device families available in 32L TSOP (8x14mm) and 32L PLCC (11.5x14x3.37mm) packages.**

**Purpose:** Qualification of MTAI as a new final test site for selected SST49LF008A and SST49LF080A device families available in 32L TSOP (8x14mm) and 32L PLCC (11.5x14x3.37mm) packages.

**CCB#:** 5112

Test	Test Condition/Parameters	
Original Final Test Site Correlation	<b>Move all FT tests to WS (WS2H) and perform 1 wafer (~1800 units) for each mask and package.</b>	<ul style="list-style-type: none"><li>- Wafer Sort: WS1A@25C (Existing TP) → WS2H@90C (New FT tests added)</li><li>- FT at destination site (MTAI – New TP): FT_KGD@80C → 100%QC@80C</li><li>- FT at original site (KYE – Existing TP): FT@80C → 100%QC@80C</li></ul>