



## Product Change Notification / ALAN-11ACPB068

---

**Date:**

25-May-2022

**Product Category:**

Memory

**PCN Type:**

Manufacturing Change

**Notification Subject:**

CCB 5056 Initial Notice: Qualification of MTAI as an additional Test site location for selected SST39VF400A-70-4Cxx and SST39VF400A-70-4lxx device families available in 48L TFBGA (6x8x1.2mm) and 48L TSOP (12x20mm) packages.

**Affected CPNs:**

[ALAN-11ACPB068\\_Affected\\_CPN\\_05252022.pdf](#)

[ALAN-11ACPB068\\_Affected\\_CPN\\_05252022.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 Test site location for selected SST39VF400A-70-4Cxx and SST39VF400A-70-4lxx device families available in 48L TFBGA (6x8x1.2mm) and 48L TSOP (12x20mm) packages.

**Pre and Post Change Summary:**

	Pre Change	Post Change
--	------------	-------------

Test Site Location			King Yuan Electronics Company, Limited (KYE)	King Yuan Electronics Company, Limited (KYE)	Microchip Technology Thailand (HQ) (MTAI)
Packaging	48L TFBGA 6x8x1.2 mm	TnR Pin Orientation	Quadrant 1	Quadrant 1	Quadrant 1
		Tray Pin Orientation	Upper Left	Upper Left	Upper Left
		TnR BQM	2500	2500	2500
		Tray BQM	480	480	480
	48L TSOP 12x80mm	TnR Pin Orientation	Quadrant 2	Quadrant 2	Quadrant 2
		Tray Pin Orientation	Upper Right	Upper Right	Upper Right
		TnR BQM	1000	1000	1000
		Tray BQM	96	96	96
	Tray		See Pre and Post change comparison		
	Tray Packaging Method		See Pre and Post change comparison		
	Carrier Tape		No dimensional change. See Pre and Post change comparison		
	Cove Tape		Minor dimensional change. See Pre and Post change comparison		
	Plastic Reel		Minor dimensional change. See Pre and Post change comparison		
	Tape and Reel Packing Method		See Pre and Post change comparison		

**Impacts to Data Sheet:**None

**Change Impact:**None

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

**Change Implementation Status:**In Progress

**Estimated Qualification Completion Date:**June 2022

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 2022				June				
Workweek	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7
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:**May 25, 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\\_ALAN-11ACPB068\\_Pre and Post Change\\_Summary.pdf](#)  
[PCN\\_ALAN-11ACPB068 Qualification 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# ALAN-11ACPB068**

**Date:  
May 9, 2022**

**Qualification of MTAI as an additional Test site location for selected SST39VF400A-70-4Cxx and SST39VF400A-70-4Ixx device families available in 48L TFBGA (6x8x1.2mm) and 48L TSOP (12x20mm) packages.**

**Purpose:** Qualification of MTAI as an additional Test site location for selected SST39VF400A-70-4Cxx and SST39VF400A-70-4lxx device families available in 48L TFBGA (6x8x1.2mm) and 48L TSOP (12x20mm) packages.

**CCB:** 5056

<b>Correlation Plan</b>	<p><b>Good Units Correlation:</b></p> <p>Take the 500 units from finish good inventory and run at MTAI only with following flow</p> <ul style="list-style-type: none"><li>100% FT@95C. Acceptance: Zero failure. Any rejects require reasonable EFA data or approve by TE/PE base on verification result</li><li>100% QC@95C. Acceptance: Zero failure. Any rejects require reasonable EFA data or approve by TE/PE base on verification result</li><li>100% FT@-40C. Acceptance: Zero failure. Any rejects require reasonable EFA data or approve by TE/PE base on verification result</li><li>100% QC@-40C. Acceptance: Zero failure. Any rejects require reasonable EFA data or approve by TE/PE base on verification result</li></ul> <p><b>Fresh Unit Correlation:</b></p> <p>Build new lot ~5 K units and run at MTAI only with following flow</p> <ul style="list-style-type: none"><li>100% FT@95C. Acceptance: Yield variant &lt; 1% compare with KYE tested data</li><li>Sampling QC@95C. Acceptance: Zero failure or reasonable EFA data</li><li>100% FT@-40C. Acceptance: Yield variant &lt; 1% compare with KYE tested data</li><li>Sampling QC@-40C. Acceptance: Zero failure or reasonable EFA data</li></ul>
-------------------------	--

# CCB 5056

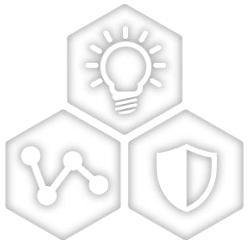
## Pre and Post Change Summary

### PCN# ALAN-11ACPB068



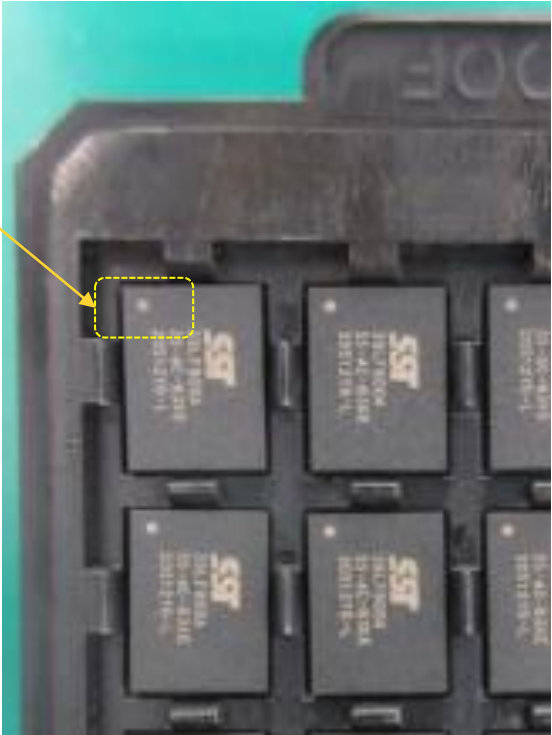

---

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



SMART | CONNECTED | SECURE

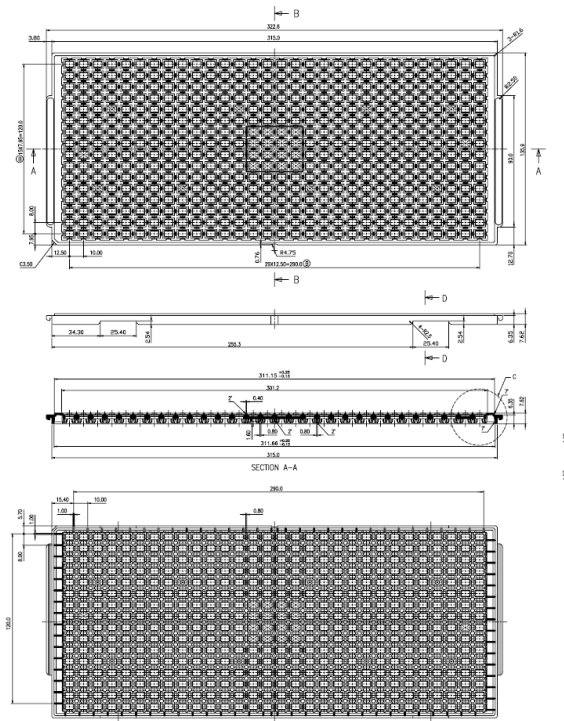
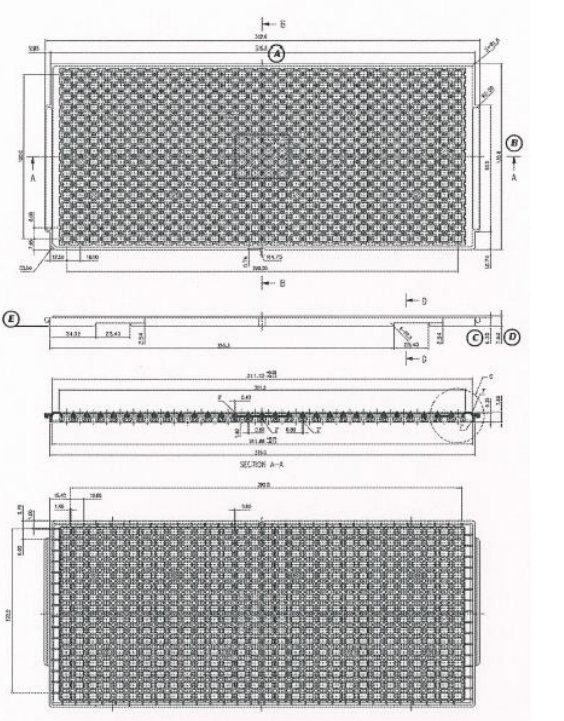
# Tray Pin Orientation (8TX 48L TFBGA 6x8x1.2 mm)

KYE	MTAI
	

Plant	Orientation
KYE	Upper Left
MTAI	Upper Left


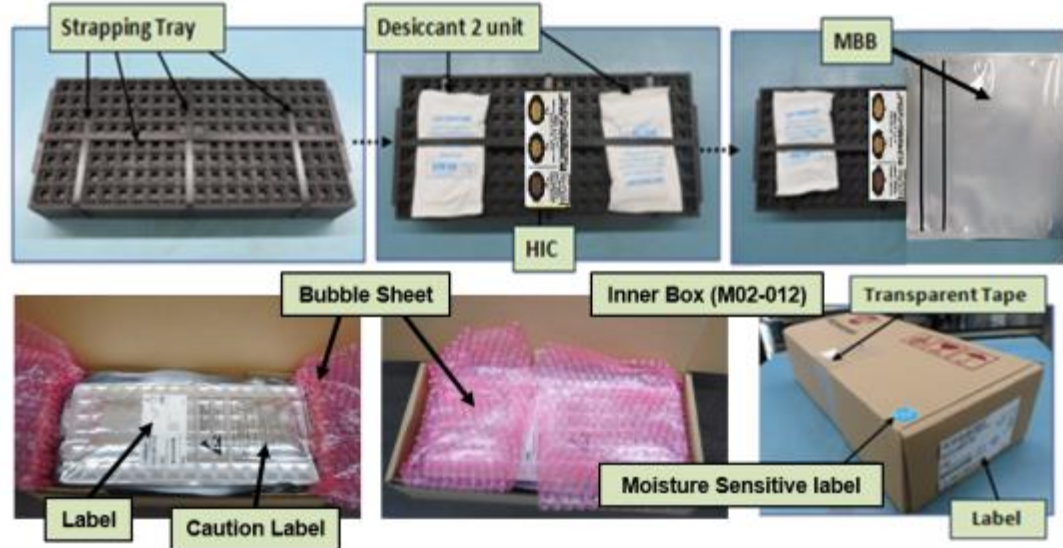


# Tray (8TX TFBGA 48L 6x8x1.2mm MSL-3)

KYE	MTAI
 <p>Technical drawing of the KYE tray. The top view shows a rectangular grid of components with dimensions: 32.0 (width), 31.0 (height), and 31.0 (depth). The side view shows a depth of 31.0. The section view A-A shows a cross-section of the tray with dimensions: 31.0 (width), 31.0 (height), and 31.0 (depth). The section view A-A also shows the internal structure of the tray.</p>	 <p>Technical drawing of the MTAI tray. The top view shows a rectangular grid of components with dimensions: 32.0 (width), 31.0 (height), and 31.0 (depth). The side view shows a depth of 31.0. The section view A-A shows a cross-section of the tray with dimensions: 31.0 (width), 31.0 (height), and 31.0 (depth). The section view A-A also shows the internal structure of the tray.</p>

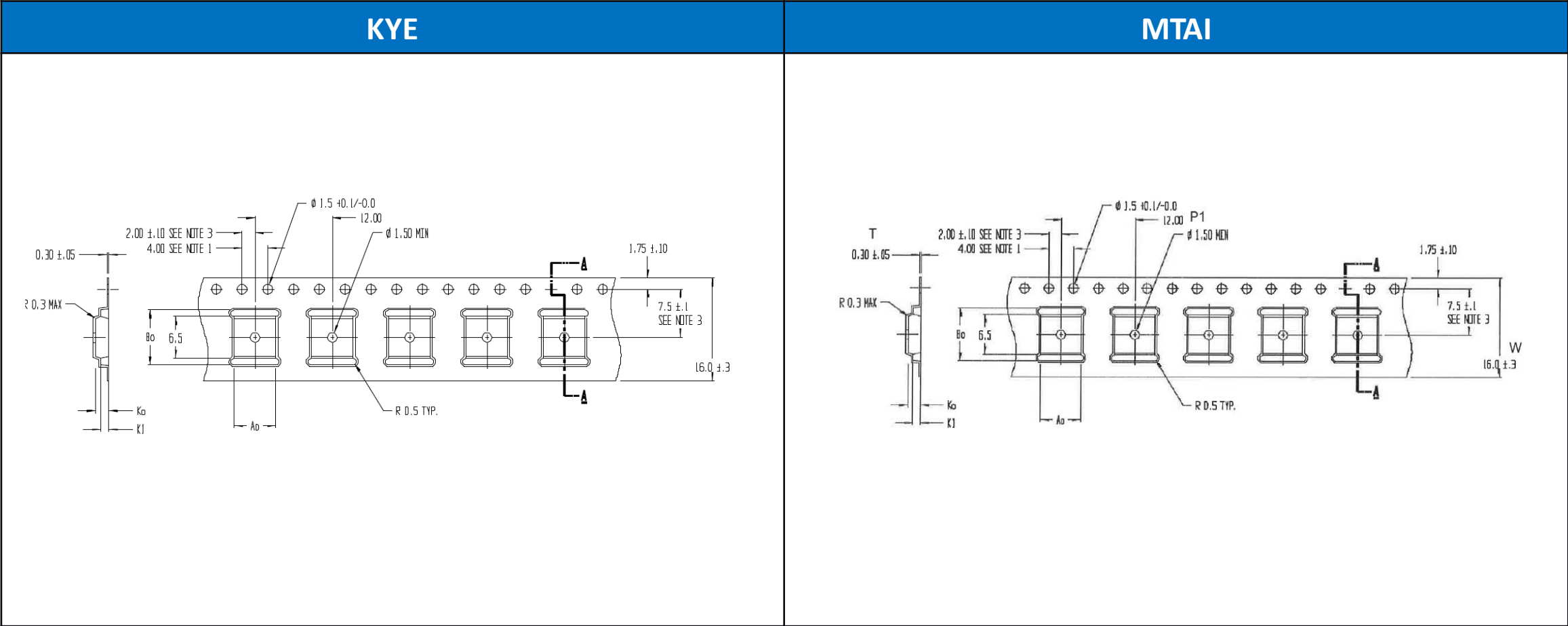
Plant	Bakeable Temp	Row	Col	Unit per Tray	Color	Tray Stack
KYE	150C	16	30	480	Black	10+1
MTAI	150C	16	30	480	Black	10+1

# TRAY Packing Method for MSL-3 (8TX 48L TFBGA 6x8x1.2 mm)

KYE	MTAI
	

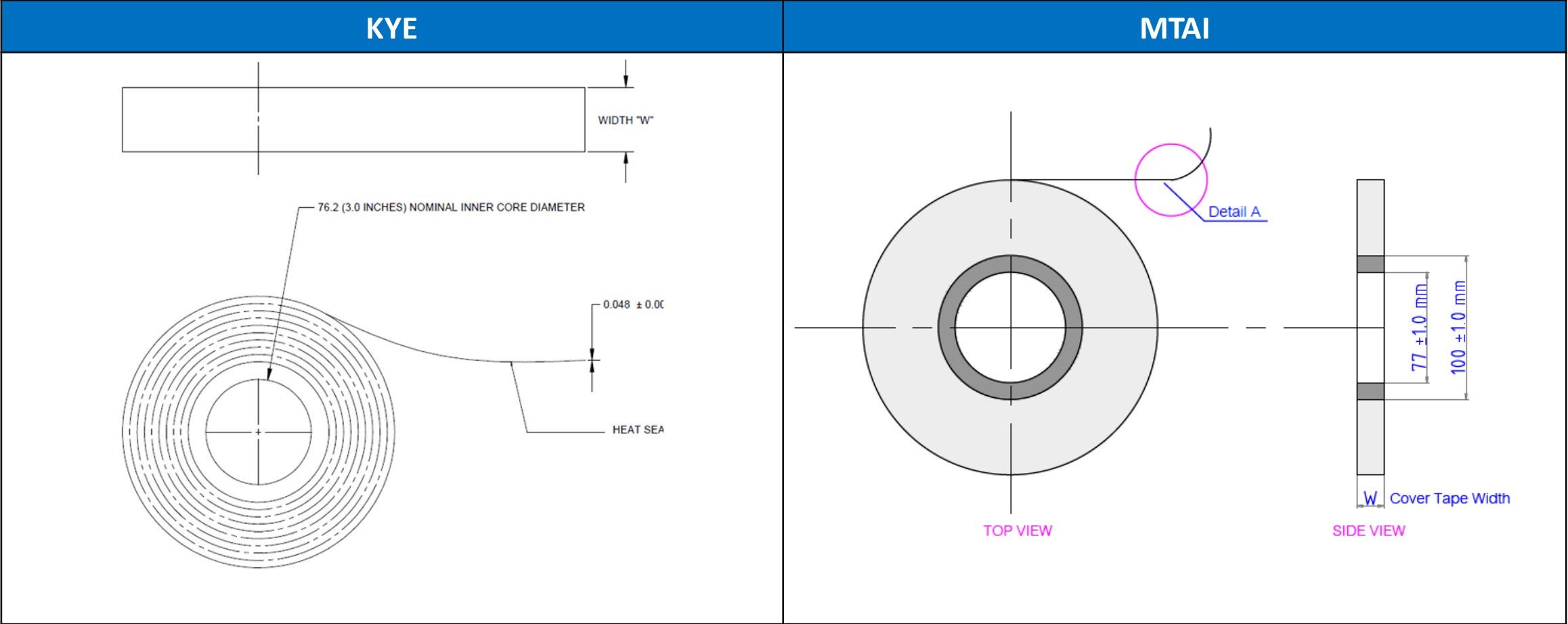
Plant	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition
KYE	MSL-3	2 units	1 pcs	2 hours @125C
MTAI	MSL-3	2 units	1 pcs	2 Hours @125C

# Carrier Tape (8TX TFBGA 48L 6x8x1.2mm MSL-3)



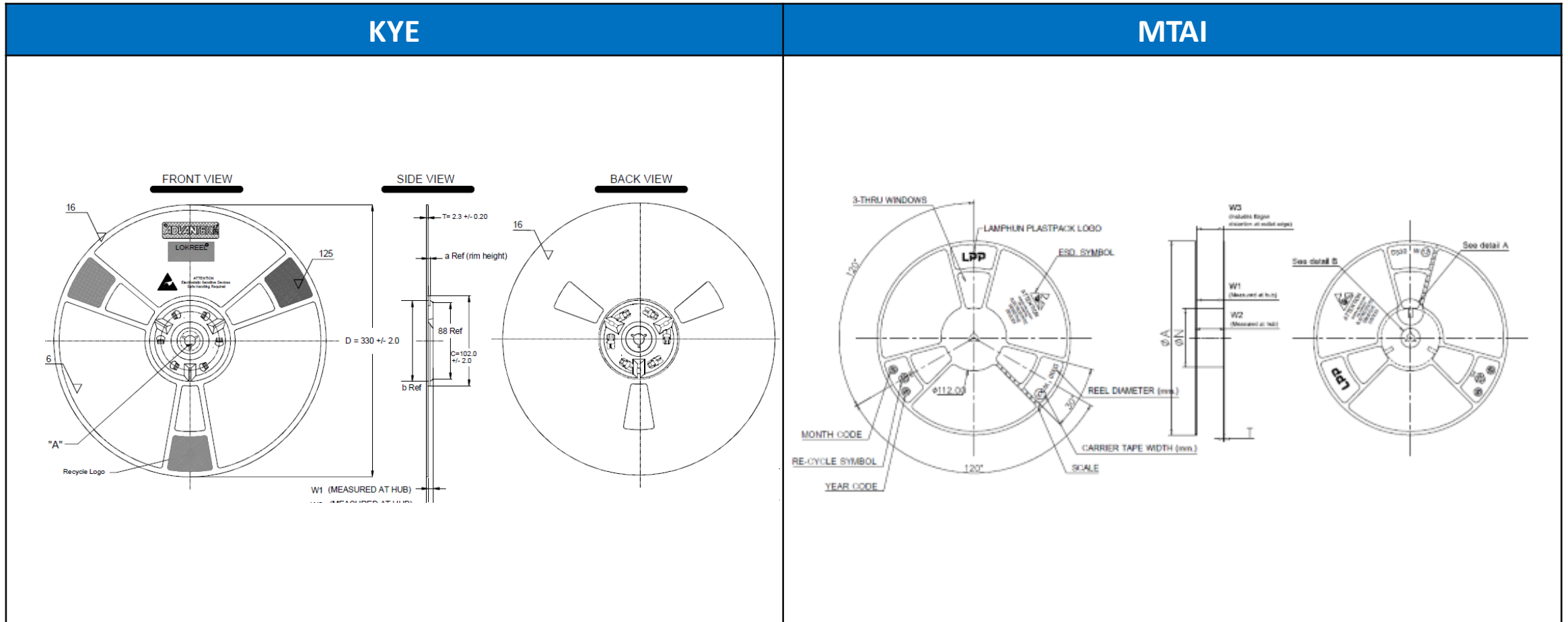
Plant	W (mm)	P (mm)	A0 (mm)	B0 (mm)	K0 (mm)	K1 (mm)	Thickness	BQM	Pin1
KYE	16.00±0.30	12.00±0.10	6.50±0.10	8.50±0.10	2.10±0.10	1.30±0.10	0.30±0.05	2500	Quadrant 1
MTAI	16.00±0.30	12.00±0.10	6.50±0.10	8.50±0.10	2.10±0.10	1.30±0.10	0.30±0.05	2500	Quadrant 1

# Cover Tape (8TX 48L TFBGA 6x8x1.2 mm)



Plant	Package	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
KYE	TFBGA 6x8x1.2mm	13.3 ±0.1	0.048 ±0.005	Transparent	Heat Seal
MTAI	TFBGA 6x8x1.2mm	13.3 ± 0.1	0.050 ±0.010	Clear	Heat Seal

# Plastic Reel (8TX 48L TFBGA 6x8x1.2 mm)



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
KYE	330 ±2.0	102 ±2.0	22.2	Regrind Blue
MTAI	330 ±2.0	100 ±2.0	22.4	Dark Blue



# Tape and Reel Packing Method for MSL-3 (8TX 48L TFBGA 6x8x1.2 mm and W9X 48L TSOP 12x80mm)

KYE






MTAI



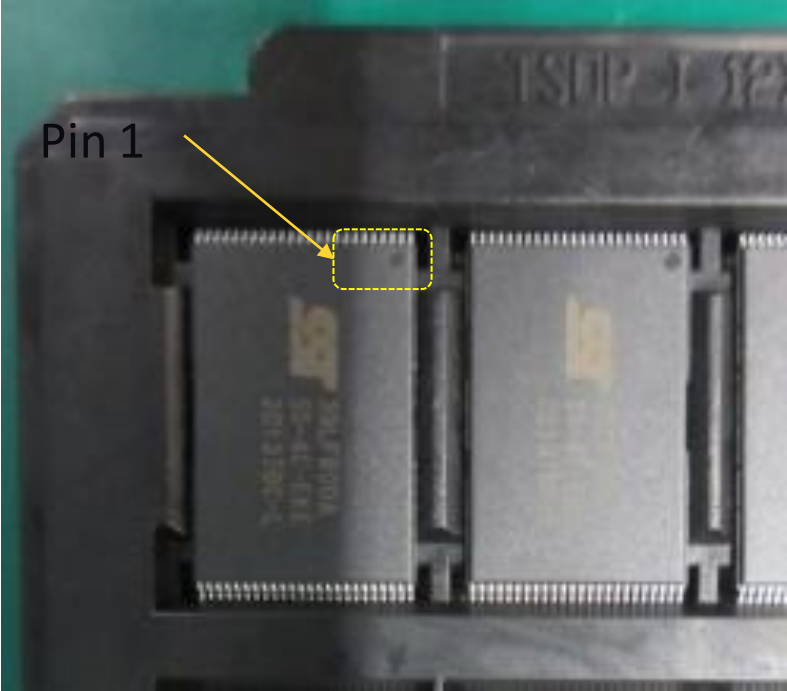
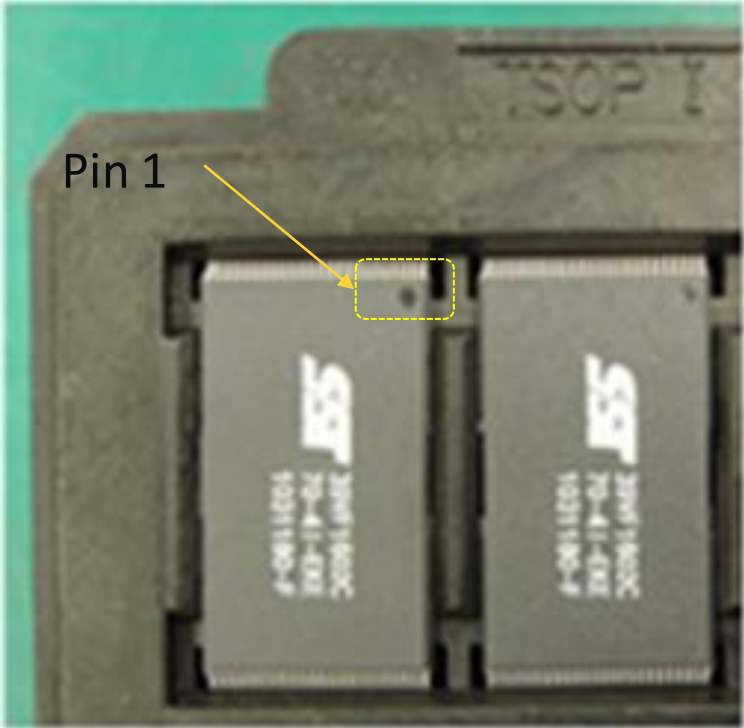






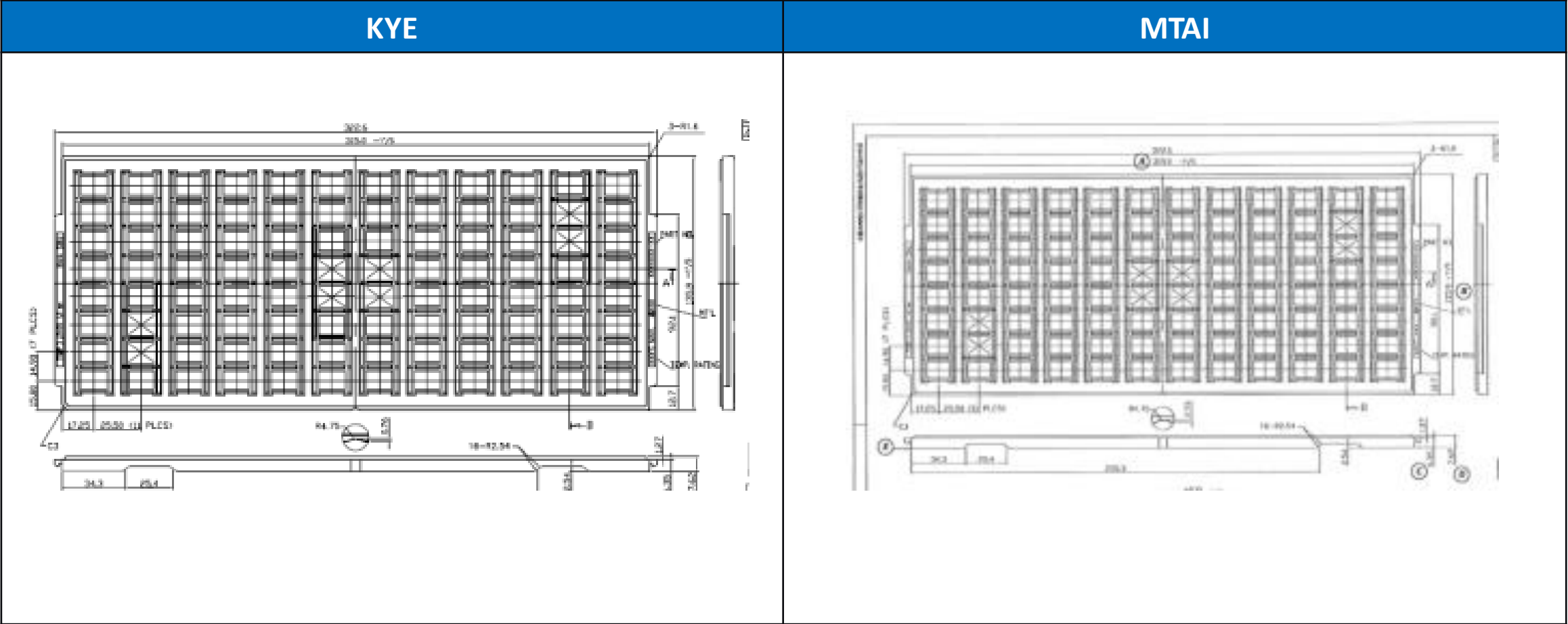
Plant	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition
KYE	MSL-3	2 units	1 pcs	2 hours @125C
MTAI	MSL-3	2 units	1 pcs	2 Hours @125C

# Tray Pin Orientation (W9X 48L TSOP 12x80mm)

KYE	MTAI
	

Plant	Orientation
KYE	Upper Right
MTAI	Upper Right


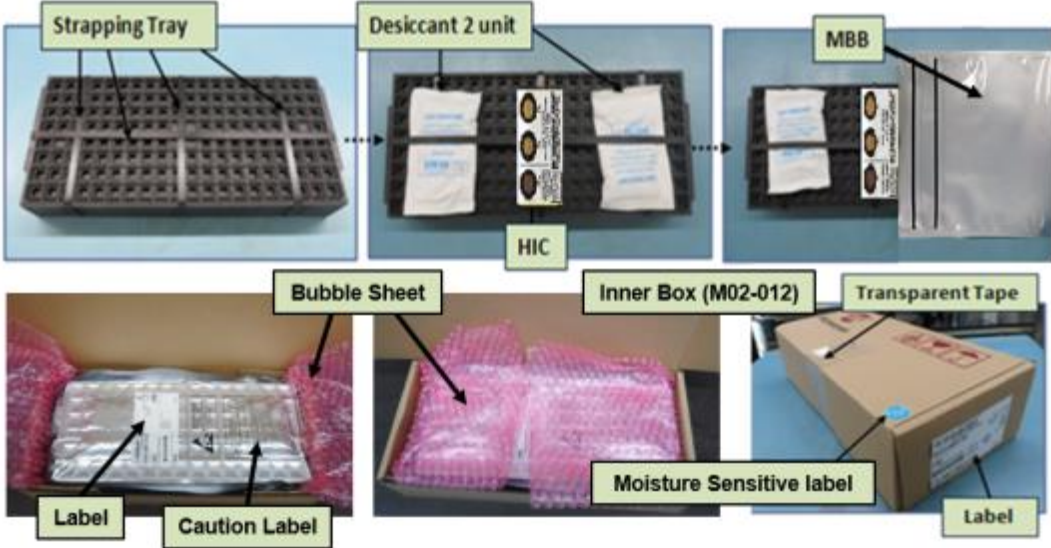
# Tray MSL-3 (W9X 48L TSOP 12x80mm)



Plant	Bakeable Temp	Row	Col	Unit per Tray	Color	Tray Stack
KYE	150C	8	12	96	Black	10+1
MTAI	150C	8	12	96	Black	10+1

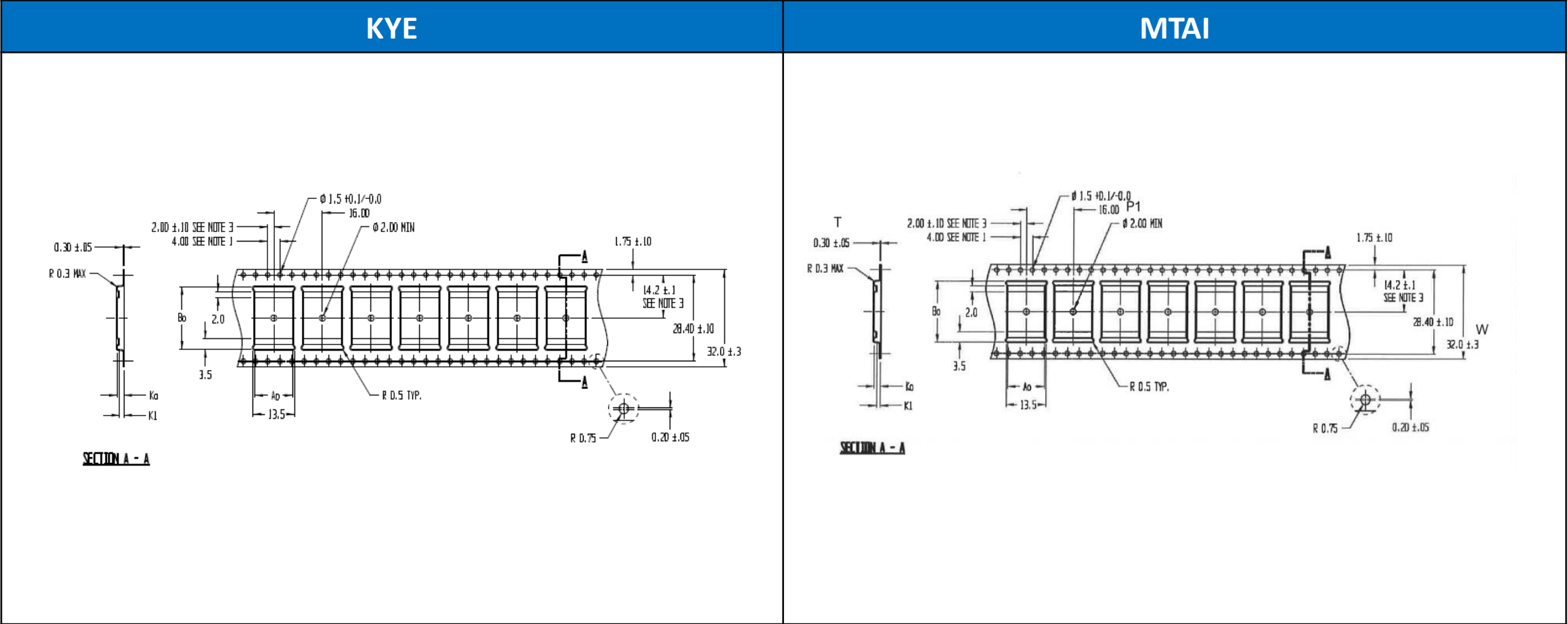


# TRAY Packing Method for MSL-3 (W9X 48L TSOP 12x80mm)

KYE	MTAI
	

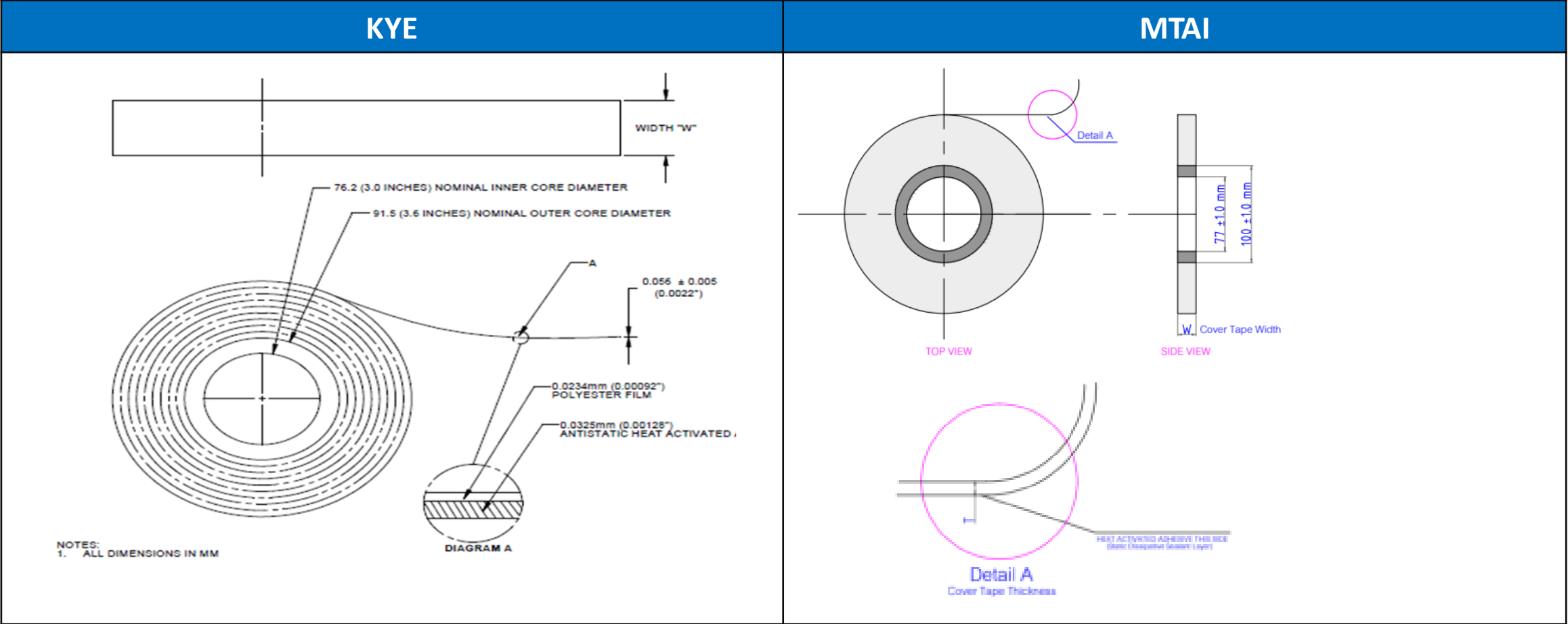
Plant	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition
KYE	MSL-3	2 units	1 pcs	2 hours @125C
MTAI	MSL-3	2 units	1 pcs	2 Hours @125C

# Carrier Tape MSL-3 (W9X 48L TSOP 12x80mm)



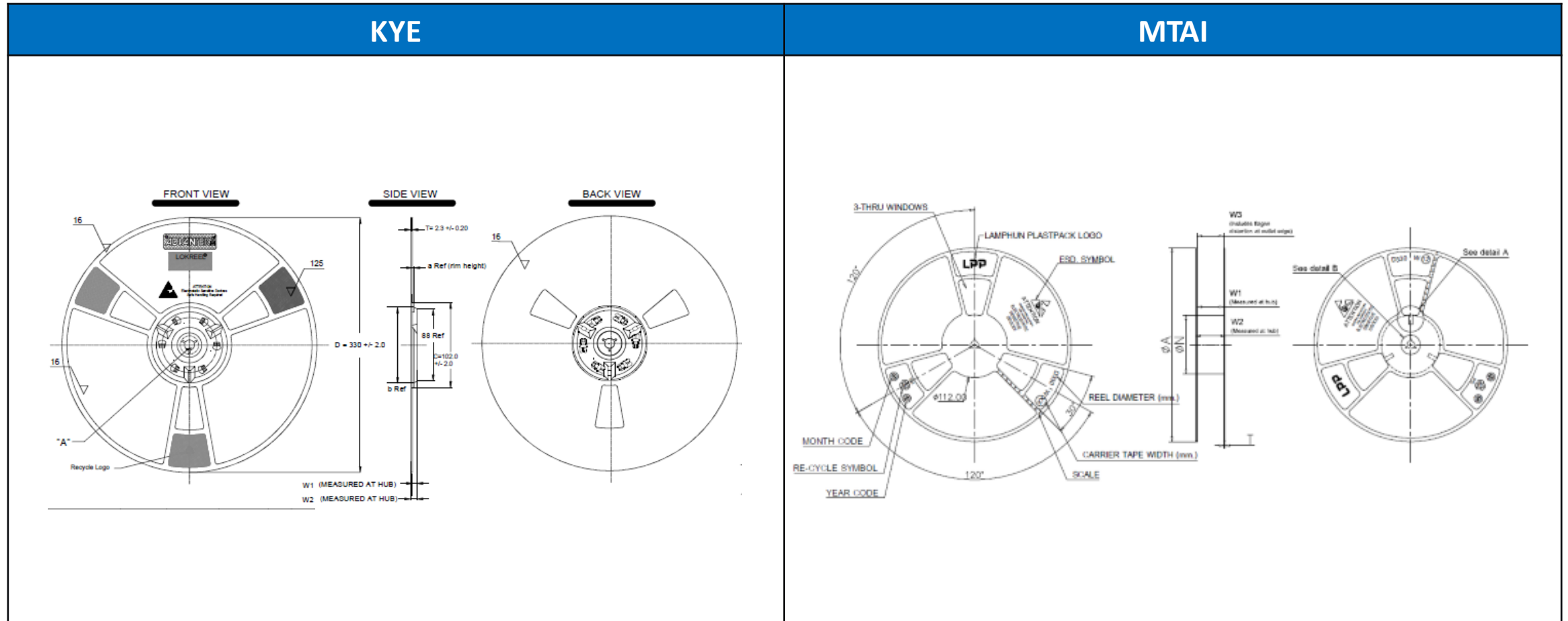
Plant	W (mm)	P (mm)	A0 (mm)	B0 (mm)	K0 (mm)	K1 (mm)	Thickness	BQM	Pin1
KYE	32.00±0.30	16.00±0.10	12.50±0.10	20.60±0.10	2.10±0.10	1.30±0.10	0.30±0.05	1000	Quadrant 2
MTAI	32.00±0.30	16.00±0.10	12.50±0.10	20.60±0.10	2.10±0.10	1.30±0.10	0.30±0.05	1000	Quadrant 2

# Cover Tape (W9X 48L TSOP 12x80mm)



Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
KYE	25.5±0.1	0.056 ±0.005	Transparent	Heat Seal
MTAI	25.5 ± 0.1	0.050 ±0.010	Clear	Heat Seal

# Plastic Reel (W9X 48L TSOP 12x80mm)



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
KYE	330 ±2.0	102 ±2.0	38.2	Regrind Blue
MTAI	330 ±2.0	100 ±2.0	38.4	Dark Blue

---

ALAN-11ACPB068 - CCB 5056 Initial Notice: Qualification of MTAI as an additional Test site location for selected SST39VF400A-70-4Cxx and SST39VF400A-70-4Ixx device families available in 48L TFBGA (6x8x1.2mm) and 48L TSOP (12x20mm) packages.

---

Affected Catalog Part Numbers (CPN)

SST39VF400A-70-4C-B3KE

SST39VF400A-70-4C-EKE

SST39VF400A-70-4I-B3KE

SST39VF400A-70-4I-EKE

SST39VF400A-70-4C-B3KE-T

SST39VF400A-70-4C-EKE-T

SST39VF400A-70-4I-B3KE-T

SST39VF400A-70-4I-EKE-T