



Product Change Notification / JAON-14VSSE190

Date:

24-Sep-2021

Product Category:

Memory

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4803 Final Notice: Qualification of MTAI as an additional final test site for selected SST39LF400A, SST39VF400A, SST39LF800A and SST39VF800A device families available in 48L TFBGA (6x8x1.2mm), 48L TSOP (12x20mm) and 48L WFBGA (4x6x0.73mm) packages.

Affected CPNs:

[JAON-14VSSE190_Affected_CPN_09242021.pdf](#)

[JAON-14VSSE190_Affected_CPN_09242021.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 SST39LF400A, SST39VF400A, SST39LF800A and SST39VF800A device families available in 48L TFBGA (6x8x1.2mm), 48L TSOP (12x20mm) and 48L WFBGA (4x6x0.73mm) packages.

Pre and Post Change Summary:

	Pre Change	Post Change
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Final Test Site		King Yuan Electronics Company, Limited (KYE)	King Yuan Electronics Company, Limited (KYE)	Microchip Technology Thailand (HQ) (MTAI)
Base Quantity Multiple (BQM) <i>Package: 48L WFBGA (4x6x0.73mm)</i>	Tape and Reel	2500	2500	2500
	Tray	740	740	740
Base Quantity Multiple (BQM) <i>Package: 48L TFBGA (6x8x1.2mm)</i>	Tape and Reel	2500	2500	2500
	Tray	480	480	480
Base Quantity Multiple (BQM) <i>Package: 48L TSOP (12x20mm)</i>	Tape and Reel	1000	1000	1000
	Tray	96	96	96
Pin Orientation <i>Package: 48L WFBGA (4x6x0.73mm)</i>	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1
	Tray	Chamfer Side	Chamfer Side	Chamfer Side
Pin Orientation <i>Package: 48L TFBGA (6x8x1.2mm)</i>	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1
	Tray	Chamfer Side	Chamfer Side	Chamfer Side
Pin Orientation <i>Package: 48L TSOP (12x20mm)</i>	Tape and Reel	Quadrant 2	Quadrant 2	Quadrant 2
	Tray	Opposite of the chamfer side. See pre and post change comparison.		
Tray Color <i>Package: 48L WFBGA (4x6x0.73mm)</i> <i>Package: 48L TFBGA (6x8x1.2mm)</i> <i>Package: 48L TSOP (12x20mm)</i>		Black	Black	Black
		See pre and post change comparison.		
Carrier tape		No dimensional changes. See pre and post change comparison.		
Cover Tape		Minor dimensional changes. See pre and post change comparison.		
Plastic Reel		Minor dimensional changes. See pre and post change comparison.		
Packing Method		See pre and post change comparison.		

Impacts to Data Sheet: None

Change Impact:None

Reason for Change:To improve manufacturability and on-time delivery performance by qualifying MTAI as an additional final test site.

Change Implementation Status:In Progress

Estimated First Ship Date:October 11, 2021 (date code: 2142)

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

Time Table Summary:

	September 2021					October 2021				
Workweek	36	37	38	39	40	41	42	43	44	45
Qual Report Availability				X						
Final PCN Issue Date				X						
Estimated first ship 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:September 24, 2021: 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_JAON-14VSSE190_Qual_Report.pdf](#)

[PCN_JAON-14VSSE190_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.

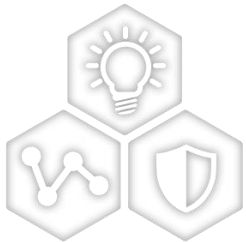
CCB 4803

Pre and Post Change Summary

PCN# JAON-14VSSE190



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SMART | CONNECTED | SECURE

Pre and Post Change Summary – TRAY

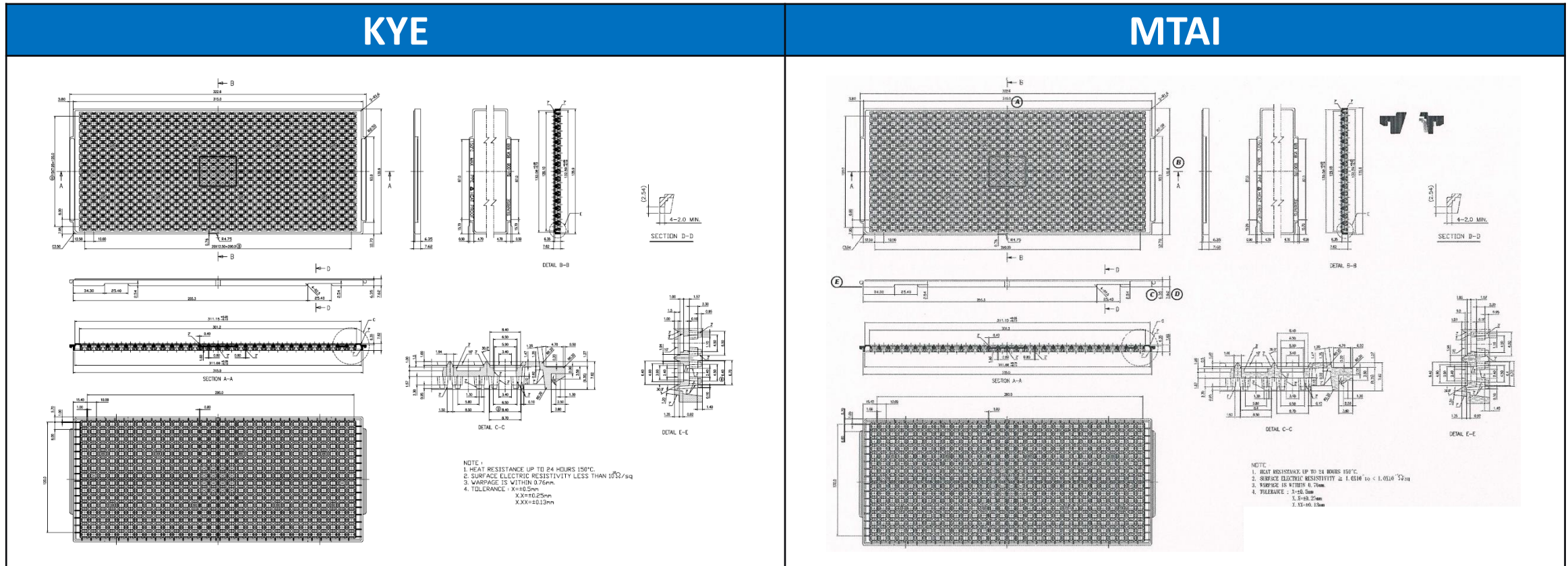
Package: 48L WFBGA (4x6x0.73mm) package

KYE	MTAI
<p>NOTE :</p> <ol style="list-style-type: none"> HEAT RESISTANCE UP TO 24 HOURS 150°C. SURFACE ELECTRIC RESISTIVITY LESS THAN $10^{11} \Omega / sq$ WARPAGE IS WITHIN 0.76mm. TOLERANCE : X=±0.5mm X.X=±0.25mm X.XX=±0.13mm MATERIAL : POLYESTER THERMOPLASTIC ELASTOMER(P.P.E) FORBID USING THE FIRST CLASS ENVIRONMENT RESTRICTS SUBSTANCES MATERIAL 	<p>NOTE :</p> <ol style="list-style-type: none"> HEAT RESISTANCE UP TO 24 HOURS 150°C. SURFACE ELECTRIC RESISTIVITY $\geq 1.0 \times 10^{10}$ to $< 1.0 \times 10^{12} \Omega / sq$ WARPAGE IS WITHIN 0.76mm. TOLERANCE : X=±0.5mm X.X=±0.25mm X.XX=±0.13mm MATERIAL : POLYESTER THERMOPLASTIC ELASTOMER(P.P.E) FORBID USING THE FIRST CLASS ENVIRONMENT RESTRICTS SUBSTANCES MATERIAL

Plant	Bakeable (Temp C)	Row	Col	Unit per Tray	Color	Tray Stack
MTAI	150C	20	37	740	Black	10+1
KYE	150C	20	37	740	Black	10+1

Pre and Post Change Summary – TRAY

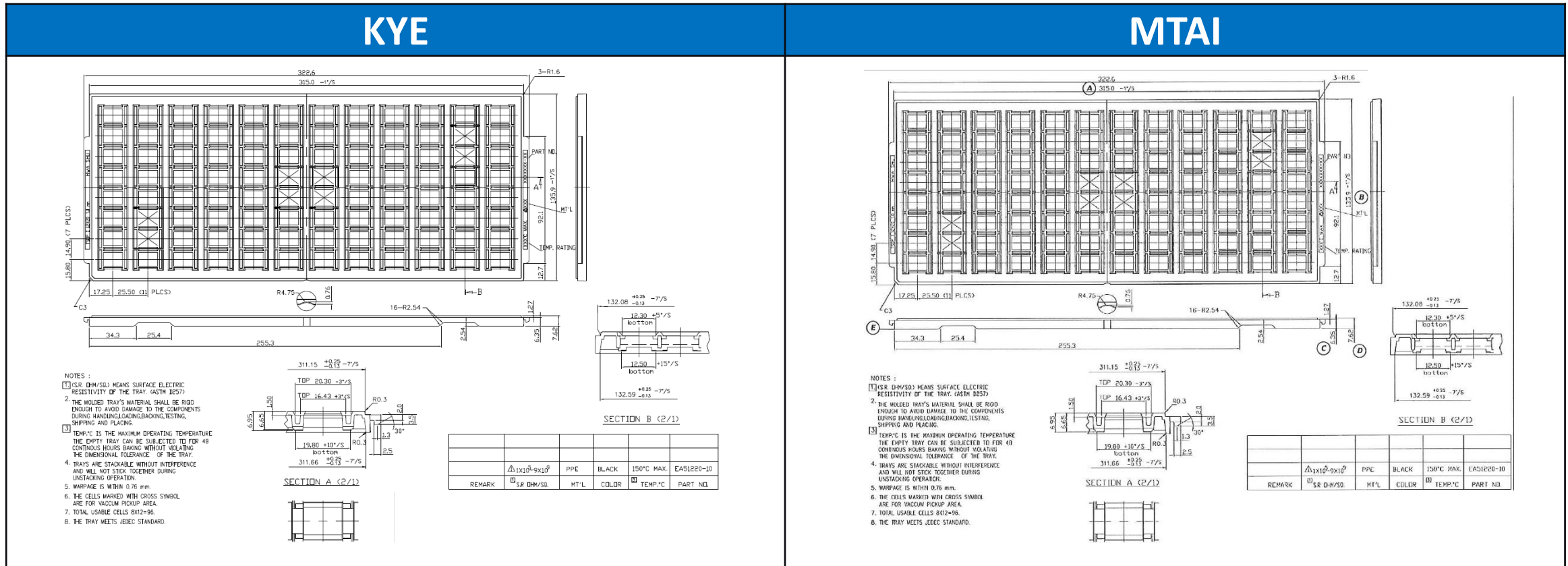
Package: 48L TFBGA (6x8x1.2mm) package



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

Pre and Post Change Summary – TRAY







Package: 48L TSOP (12x20mm) package



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

Pre and Post Change Summary – TRAY

Component orientation

KYE	MTAI
 <p>Chamfer side</p> <p>No actual photo This is for reference only</p> <p>WFBGA 4x6</p>  <p>Chamfer side</p> <p>TFGBA 6x8</p>  <p>Chamfer side</p> <p>48L TSOP 12X20</p>	 <p>Chamfer side</p> <p>WFBGA 4X6</p>  <p>Chamfer side</p> <p>TFBGA 6X8</p>  <p>Chamfer side</p> <p>48L TSOP 12X20</p>

Pre and Post Change Summary – TRAY

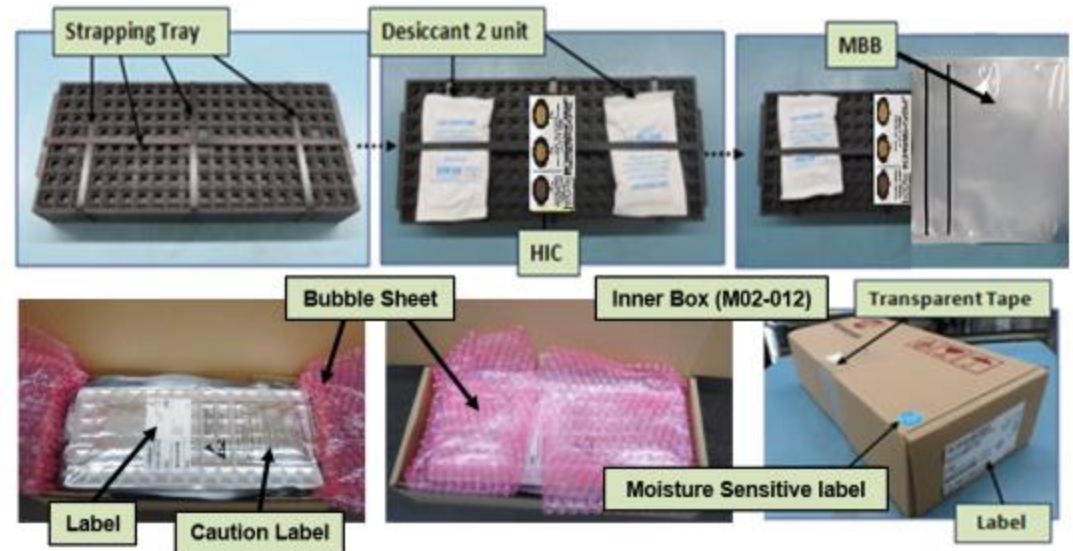
Packing Method – MSL-3

KYE



Number of Desiccant: 2 units

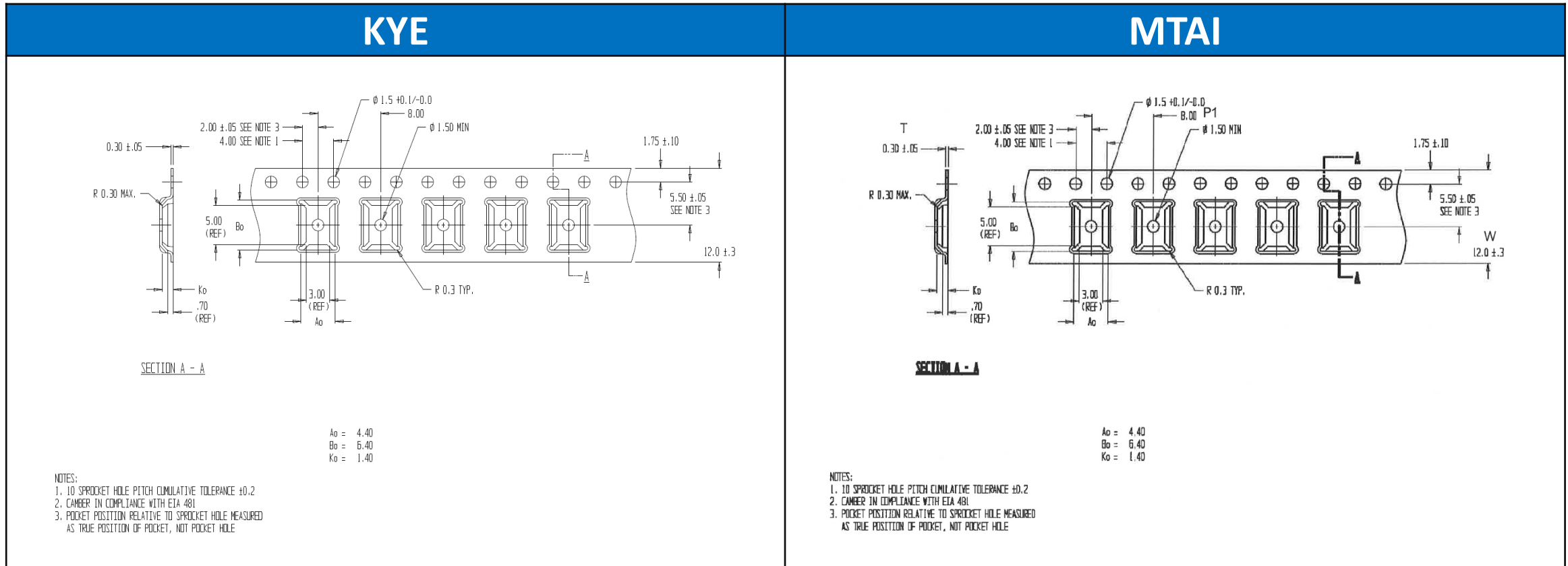
MTAI



Number of Desiccant: 2 units

Pre and Post Change Summary – CARRIER TAPE

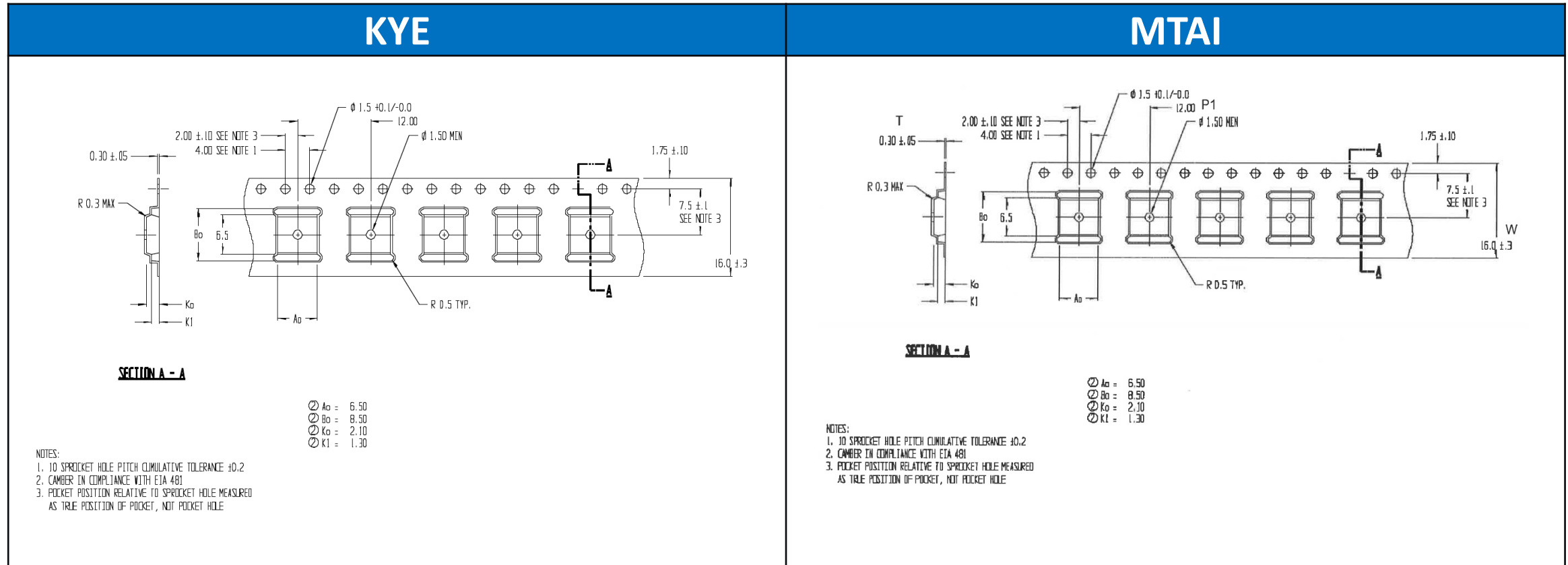
Package: 48L WFBGA (4x6x0.73mm) package



Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	Thickness	BQM	Pin1
MTAI	12.00±0.30	8.00±0.10	4.40±0.10	6.40±0.10	1.40±0.10	0.30±0.05	2500	Quadrant 1
KYE	12.00±0.30	8.00±0.10	4.40±0.10	6.40±0.10	1.40±0.10	0.30±0.05	2500	Quadrant 1

Pre and Post Change Summary – CARRIER TAPE

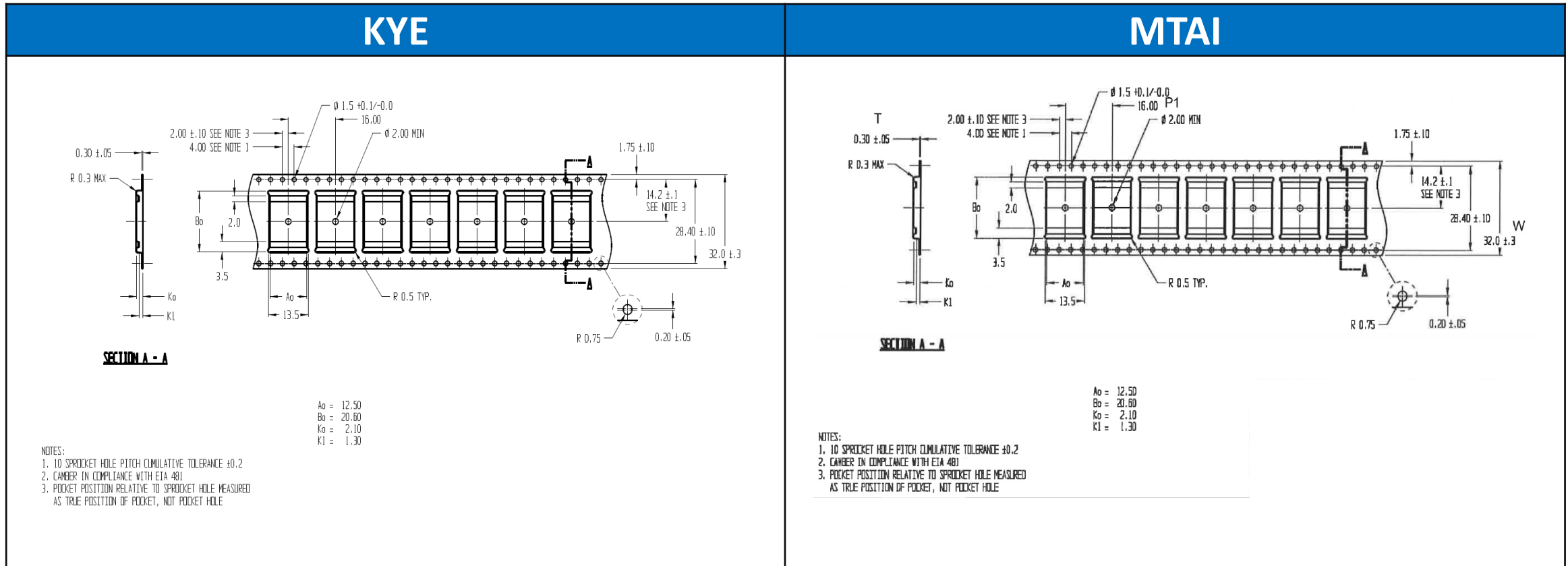
Package: 48L TFBGA (6x8x1.2mm) package



Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM	Pin1
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
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

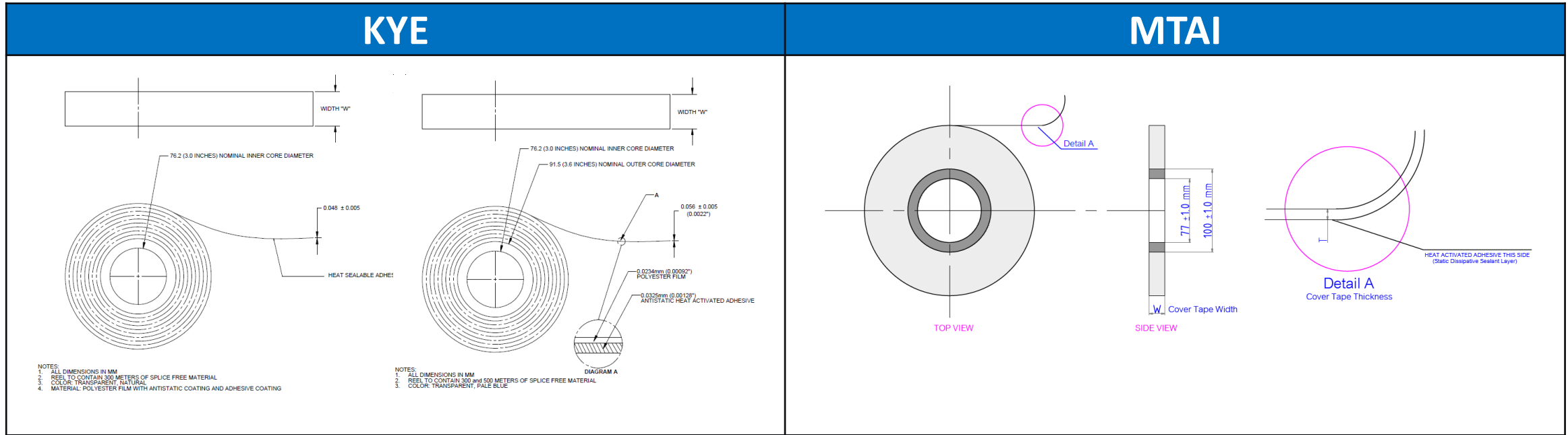
Pre and Post Change Summary – CARRIER TAPE

Package: 48L TSOP (12x20mm) package



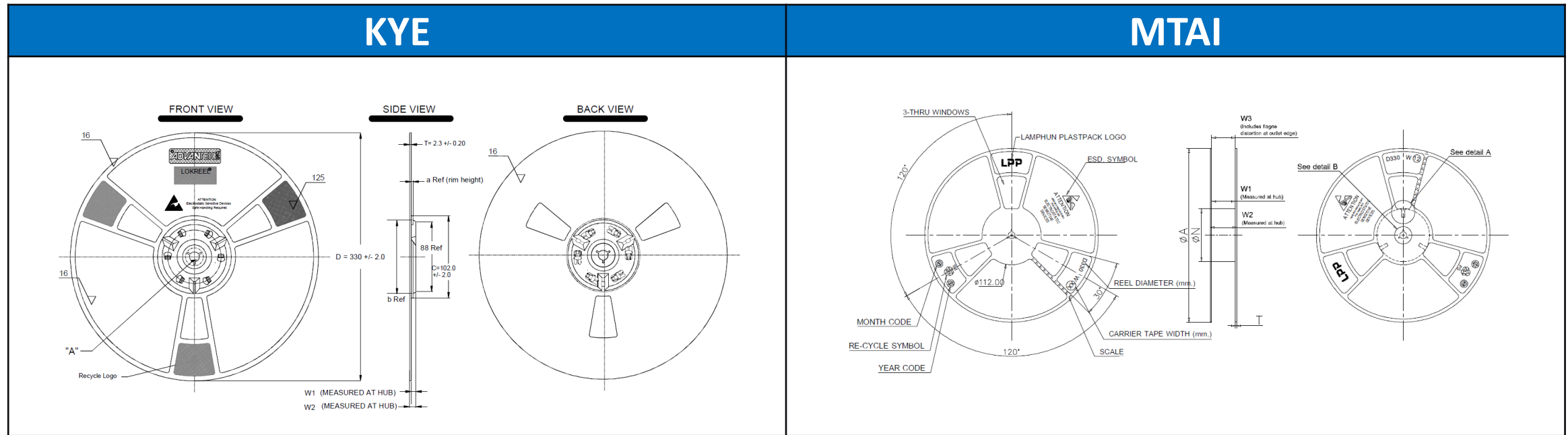
Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM	Pin1
MTAI	32.00±0.30	16.00±0.10	12.50±0.10	20.60±0.10	2.10±0.10	1.30±0.10	0.30±0.05	1000	Quadrant 2
KYE	32.00±0.30	16.00±0.10	12.50±0.10	20.60±0.10	2.10±0.10	1.30±0.10	0.30±0.05	1000	Quadrant 2

Pre and Post Change Summary – COVER TAPE



Package	Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
48L WFBGA (4x6x0.73mm)	MTAI	9.05 +0.05 /-0.15	0.050 ±0.010	Clear	Heat Seal
	KYE	9.3±0.1	0.048±0.005	Transparent	Heat Seal
48L TFBGA (6x8x1.2mm)	MTAI	13.3 ± 0.1	0.050 ±0.010	Clear	Heat Seal
	KYE	13.3±0.1	0.048±0.005	Transparent	Heat Seal
48L TSOP (12x20mm)	MTAI	25.5 ± 0.1	0.050 ±0.010	Clear	Heat Seal
	KYE	25.5±0.1	0.056±0.005	Transparent	Heat Seal

Pre and Post Change Summary – PLASTIC REEL



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
MTAI	330 ±2.0	100 ±2.0	18.4	Dark Blue
	330 ±2.0	100 ±20	22.4	Dark Blue
	330 ±2.0	100 ±2.0	38.4	Dark Blue
KYE	330 ±2.0	102 ±2.0	7.1 + = 18.2	Regrind Blue
	330 ± 2.0	102 ± 2.0	11.1 + = 22.2	Regrind Blue
	330 ±2.0	102 ±2.0	11.1 19.1 + = 38.2 19.1	Regrind Blue

Pre and Post Change Summary – TAPE and REEL

Packing Method – MSL-3



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



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: JAON-14VSSE190

Date

September 15, 2021

Qualification of MTAI as an additional final test site for selected SST39LF400A, SST39VF400A, SST39LF800A and SST39VF800A device families available in 48L TFBGA (6x8x1.2mm), 48L TSOP (12x20mm) and 48L WFBGA (4x6x0.73mm) packages.

Purpose: Qualification of MTAI as an additional final test site for selected SST39LF400A, SST39VF400A, SST39LF800A and SST39VF800A device families available in 48L TFBGA (6x8x1.2mm), 48L TSOP (12x20mm) and 48L WFBGA (4x6x0.73mm) packages.

CCB No.: 4803

Test / Evaluation	Test Conditions / Parameters	RESULT
Original Final Test Site Correlation	Run 5,000 untested devices from 1 lot for Commercial/Industrial, using the first insertion final test program at the current final test site and keep the good devices and rejects separate by bins.	PASS
Destination Final Test Site Correlation	Send 5,000 tested devices from 1 lot for Commercial/Industrial. The results need 100% correlation. To ensure that correction result. Re-test the ALL devices from the original test site bin-by-bin to the destination site test program for correlation. The yield difference should be within 0.1% and bin-to-bin difference should be within 0.1%	PASS

Affected Catalog Part Numbers (CPN)

SST39LF400A-55-4C-MAQE
SST39LF400A-55-4C-B3KE
SST39LF400A-55-4C-EKE
SST39VF400A-70-4I-M1QE
SST39LF400A-55-4C-MAQE-T
SST39LF400A-55-4C-B3KE-T
SST39LF400A-55-4C-EKE-T
SST39VF400A-70-4I-M1QE-T
SST39LF800A-55-4C-MAQE
SST39VF800A-70-4C-M1QE
SST39LF800A-55-4C-B3KE
SST39LF800A-55-4C-EKE
SST39VF800A-70-4I-M1QE
SST39LF800A-55-4C-MAQE-T
SST39VF800A-70-4C-M1QE-T
SST39LF800A-55-4C-B3KE-T
SST39VF800A-70-4I-M1QE-T