



Product Change Notification / CENO-17EGOL207

Date:

08-Aug-2022

Product Category:

Memory

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5097 Final Notice: Qualification of MTAI as an additional final test site for selected SST39SF040, SST39SF020A and SST39SF010A device families available in 32L PLCC (11.5x14x3.37mm) package.

Affected CPNs:

[CENO-17EGOL207_Affected_CPN_08082022.pdf](#)
[CENO-17EGOL207_Affected_CPN_08082022.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 SST39SF040, SST39SF020A and SST39SF010A device families available in 32L PLCC (11.5x14x3.37mm) package.

Pre and Post Change Summary:

	PRE CHANGE	POST CHANGE

Final Test Site		King Yuan Electronics Company, Limited (KYE)	King Yuan Electronics Company, Limited (KYE)	Microchip Technology Thailand (HQ) (MTAI)
Base Quantity Multiple (BQM)	Tape and Reel	750	750	750
	Tube	30	30	30
Pin 1 Orientation	Tape and Reel	Quadrant 1 - 2	Quadrant 1 - 2	Quadrant 1 - 2
	Tube(Note: Pre-change - Pin 1 orientation is depending on Assy location)	Gray stopper - MMT Tube Colored stopper - LPI Tube Blue stopper – GTK Tube	Gray stopper - MMT Tube	Gray stopper – MMT Tube
Carrier tape		Minor dimensional changes. See pre and post change comparison.		
Cover Tape	Sealing Method	Heat Activated Seal	Heat Activated Seal	Heat Activated Seal
	Color	Transparent	Transparent	Clear
	Dimensions	Minor dimensional changes. See pre and post change comparison.		
Reel	Color	Regrind Blue	Regrind Blue	Dark Blue
	Dimensions	With dimensional changes. See pre and post change comparison.		
Tape and Reel Packing Method		See pre and post change comparison.		
Tube	Dimensions	With dimensional changes. See pre and post change comparison.		
	Color	Clear	Clear	Clear
Tube Packing Method		See pre and post change comparison		

Impacts to Data Sheet:None

Change ImpactNone

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:September 10, 2022 (date code: 2237)

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

change parts.

Time Table Summary:

	April 2022					>	August 2022					September 2022			
Workweek	1 4	1 5	1 6	1 7	1 8		32	3 3	3 4	3 5	3 6	37	38	39	40
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:April 25, 2022: Issued initial notification.

August 08, 2022: Issued final notification. Attached the qualification report and provided an estimated ship date to be on September 10, 2022. Updated post change of Pin 1 orientation.

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-17EGOL207_Qual Report.pdf](#)

[PCN_CENO-17EGOL207_Pre_and_Post_Change_Summary.pdf](#)

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

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QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: CENO-17EGOL207

Date:
July 18, 2022

Qualification of MTAI as an additional final test site for selected SST39SF040, SST39SF020A and SST39SF010A device families available in 32L PLCC (11.5x14x3.37mm) package.

Purpose: Qualification of MTAI as an additional final test site for selected SST39SF040, SST39SF020A and SST39SF010A device families available in 32L PLCC (11.5x14x3.37mm) package.

CCB# 5097

Test	Parameters	Result
Correlation	<p>Lot size is > 3K</p> <ul style="list-style-type: none">• FT1@95C -> QC@95C -> FT2@-40C -> QC@-40C• Acceptance: Test yield less than 1% delta against KYE test yield	Passed

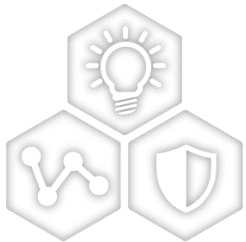
CCB 5097

Pre and Post Change Summary

PCN #: CENO-17EGOL207



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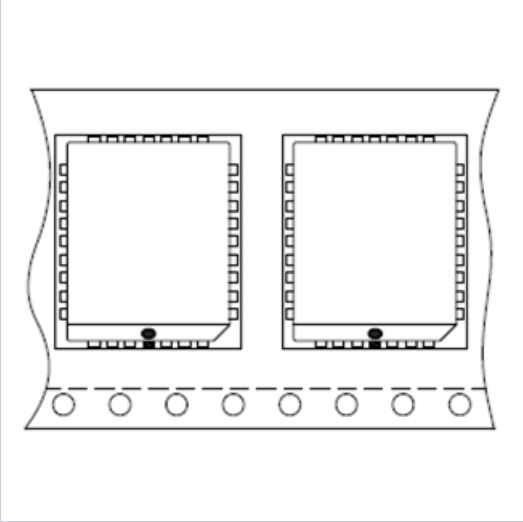
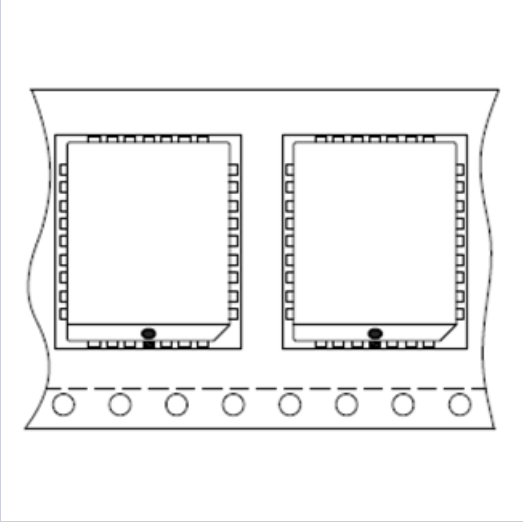


SMART | CONNECTED | SECURE

Pre and Post Change Summary

		KYE	MTAI
Scan/Pack Site		King Yuan Electronics Company, Limited (KYE)	Microchip Technology Thailand (HQ) (MTAI)
Base Quantity Multiple (BQM)	Tape and Reel	No changes	
	Tube		

Pre and Post Change Summary – Pin 1 Orientation

		KYE	MTAI
Pin 1 Orientation	Tape and Reel	 <p>Diagram showing the KYE Pin 1 Orientation. It features two square components on a carrier tape. Each component has a small black dot at the bottom center, representing Pin 1. The carrier tape has a dashed line at the bottom with six circular holes.</p>	 <p>Diagram showing the MTAI Pin 1 Orientation. It features two square components on a carrier tape. Each component has a small black dot at the bottom center, representing Pin 1. The carrier tape has a dashed line at the bottom with six circular holes.</p>
		Quadrant 1- 2	Quadrant 1- 2

PIN#1 Orientation
Quadrants

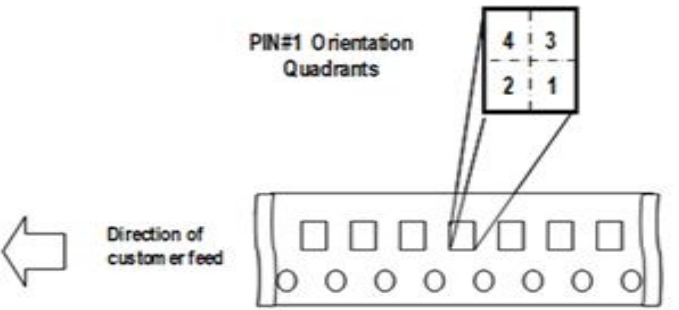
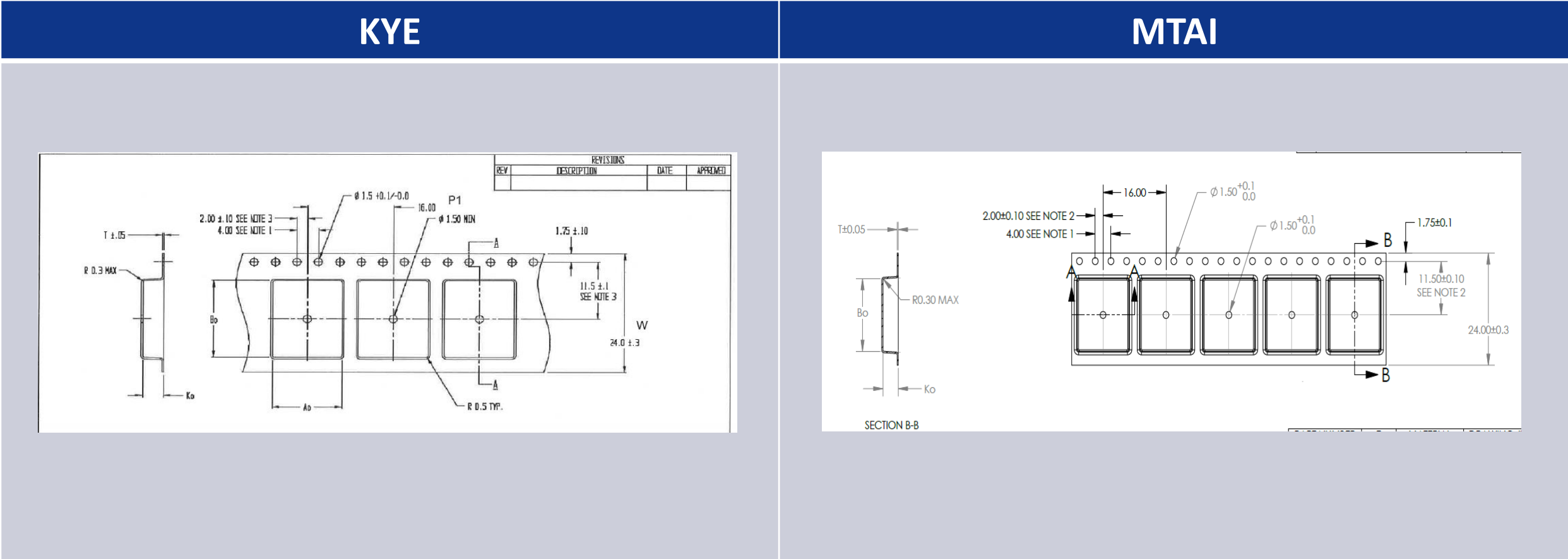


Diagram showing the Pin 1 Orientation Quadrants. It features a carrier tape with a dashed line at the bottom and six circular holes. A callout box shows the quadrant numbering: 4 (top-left), 3 (top-right), 2 (bottom-left), and 1 (bottom-right). An arrow points to the left, labeled "Direction of customer feed".

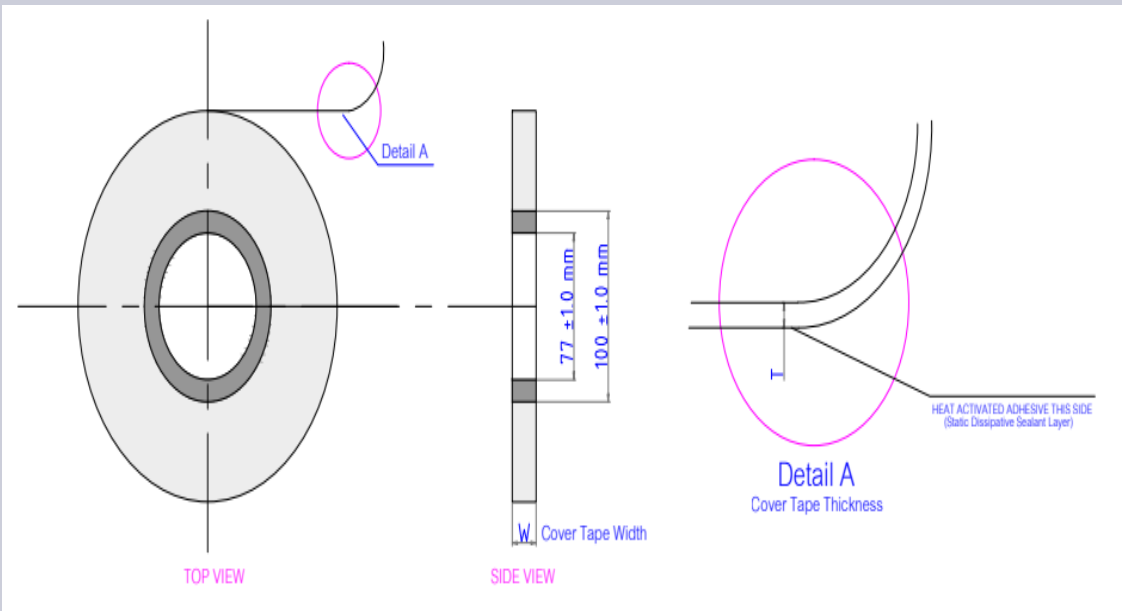
Pre and Post Change Summary – Carrier Tape



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

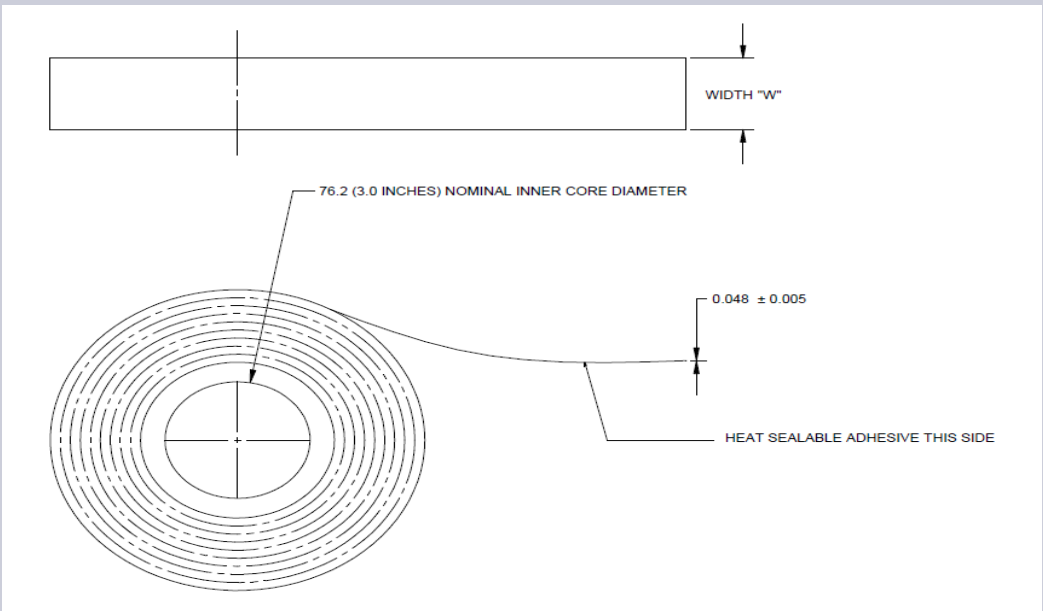
Pre and Post Change Summary – Cover Tape

KYE



Cover tape color	Width ±0.1 (mm)	Thickness ±0.005 (mm)	Sealing Methodology
Transparent	21.3±0.1	0.048±0.005	Heat Seal

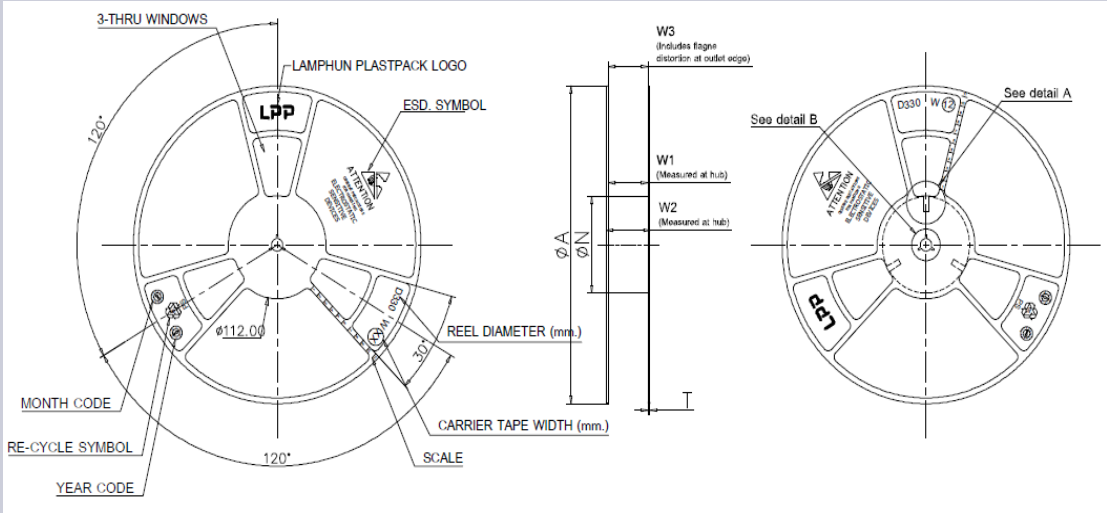
MTAI



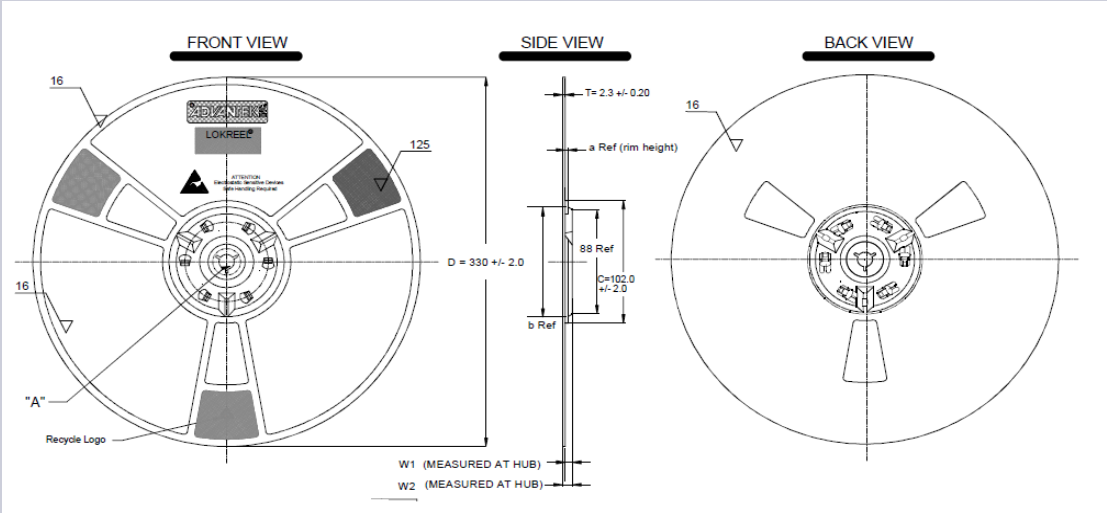
Cover tape color	Width ±0.1 (mm)	Thickness ±0.005 (mm)	Sealing Methodology
Clear	21.0 ±0.1	0.050 ±0.010	Heat Seal

Pre and Post Change Summary – Plastic Reel

KYE



MTAI



Reel Color	Reel diameter (mm)	Hub (mm)	Reel Width Max (mm.)
Regrind Blue	330 ±2.0	102±2.0	8.4 + 16.4

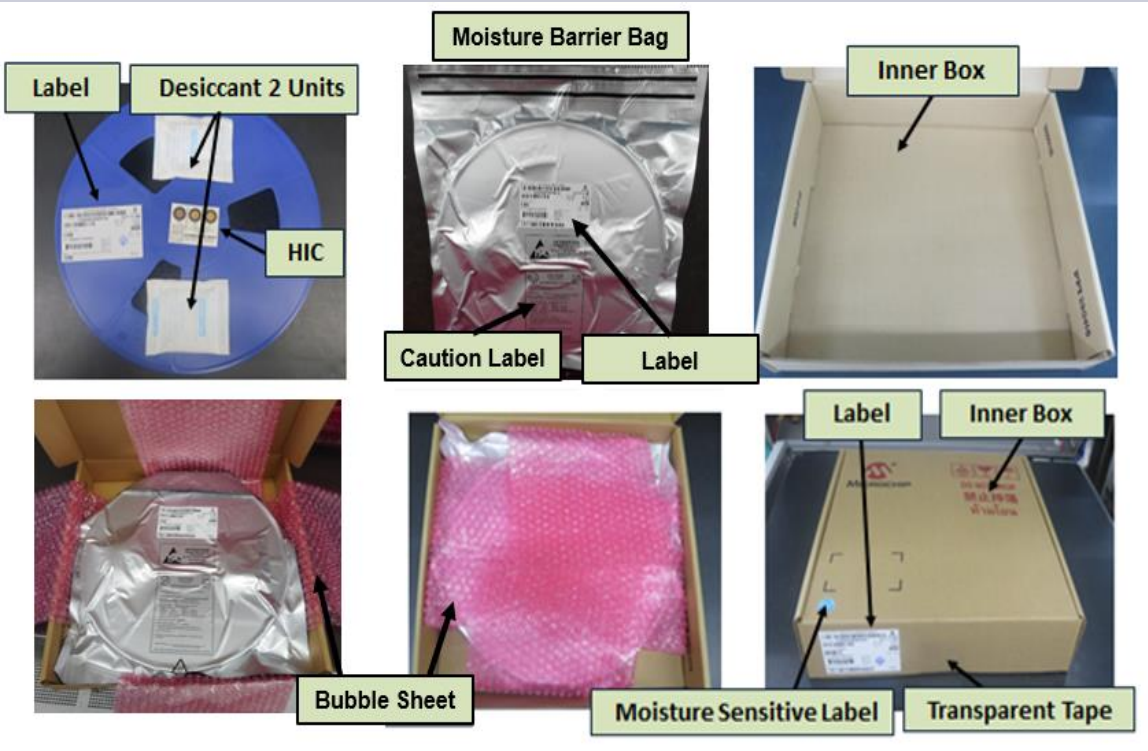
Reel Color	Reel diameter (mm)	Hub (mm)	Reel Width Max (mm.)
Dark Blue	330 ±2.0	100 ±2.0	30.40

Packing Method – Tape and Reel

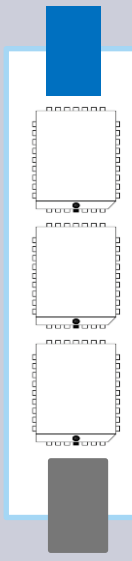
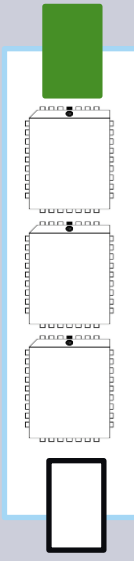
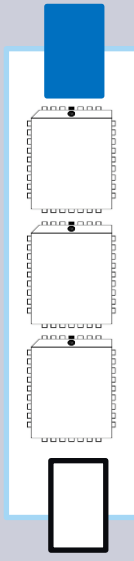
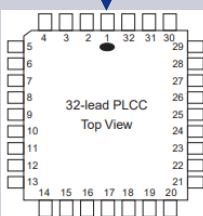
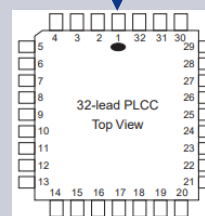
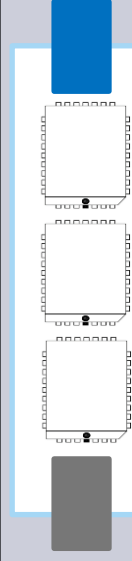
KYE



MTAI

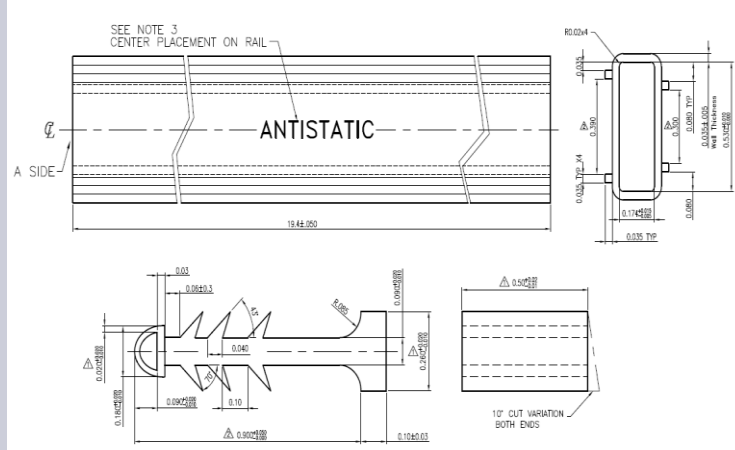


Pre and Post Change Summary – Pin 1 Orientation

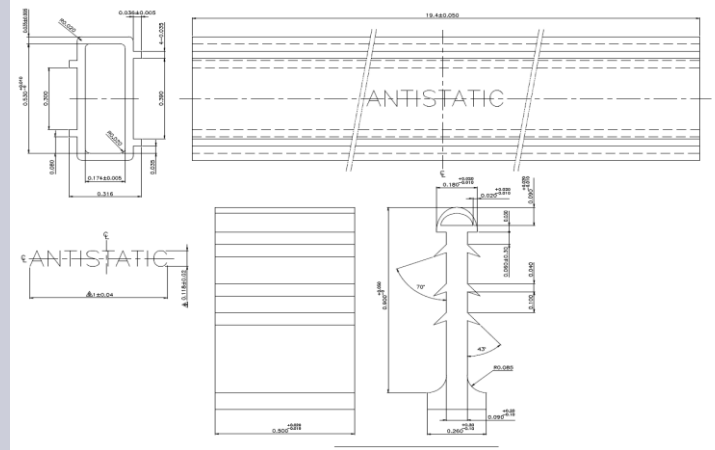
		Pre change (KYE)		Post change (KYE and MTAI)																									
Pin 1 Orientation	Tube	<div><div>MMT</div><div></div></div>	<div><div>LPI</div><div></div></div>	<div><div>GTK</div><div></div></div>																									
		<div><div>Pin#1</div><div></div></div>																											
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		<div><div>MMT</div><div></div></div>	N/A		N/A																								
		<table><tr><th>Media</th><th>Pin1 Side</th><th>Opposite Side</th></tr><tr><td>MMT-TUBE</td><td>GRAY stopper</td><td>BLUE stopper</td></tr><tr><td>LPI-TUBE</td><td>Colored stopper</td><td>WHITE stopper</td></tr><tr><td>GTK-TUBE</td><td>BLUE stopper</td><td>WHITE stopper</td></tr></table>	Media	Pin1 Side	Opposite Side	MMT-TUBE	GRAY stopper	BLUE stopper	LPI-TUBE	Colored stopper	WHITE stopper	GTK-TUBE	BLUE stopper	WHITE stopper			<table><tr><th>Media</th><th>Pin1 Side</th><th>Opposite Side</th></tr><tr><td>MMT-TUBE</td><td>GRAY stopper</td><td>BLUE stopper</td></tr><tr><td>LPI-TUBE</td><td colspan="2">N/A</td></tr><tr><td>GTK-TUBE</td><td colspan="2">N/A</td></tr></table>	Media	Pin1 Side	Opposite Side	MMT-TUBE	GRAY stopper	BLUE stopper	LPI-TUBE	N/A		GTK-TUBE	N/A	
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GTK-TUBE	N/A																												

Pre and Post Change Summary – Tube Dimension

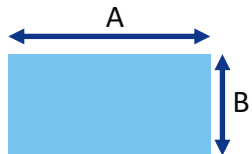
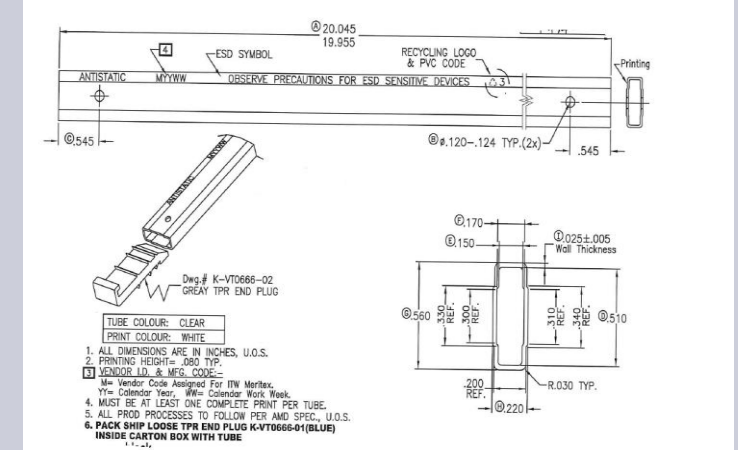
LPI



GTK



MMT



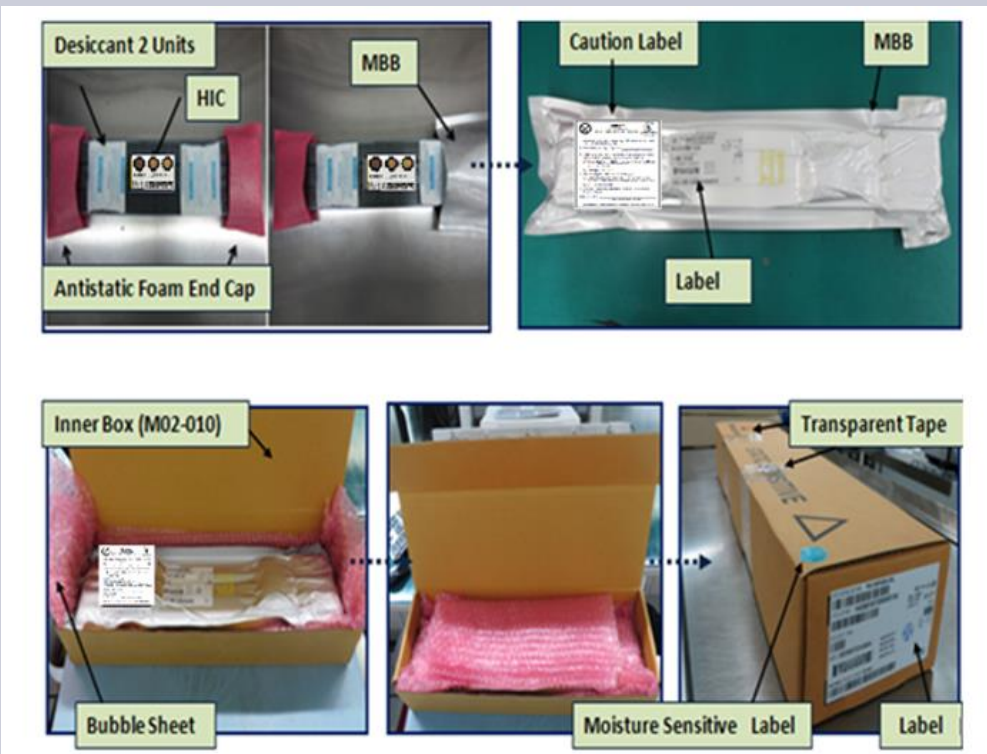
Tube	Scan / Pack Site	Tube Length (in)	Dimension A (in)	Dimension B (in)	Tube Color
MMT	KYE, MTAI	20.045	0.510	0.150	Clear
LPI	KYE	19.4	0.53	0.174	Clear
GTK	KYE	19.4	0.53	0.174	Clear

Packing Method – Tube

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

CENO-17EGOL207 - CCB 509 SST39SF020A and SST39SF010A device families available in 32L PLCC (11.5x14x3

Affected Catalog Part Numbers(CPN)

SST39SF040-55-4C-NHE
SST39SF020A-55-4C-NHE
SST39SF010A-55-4C-NHE
SST39SF040-70-4C-NHE
SST39SF020A-70-4C-NHE
SST39SF010A-70-4C-NHE
SST39SF040-55-4I-NHE
SST39SF020A-55-4I-NHE
SST39SF010A-55-4I-NHE
SST39SF040-70-4I-NHE
SST39SF020A-70-4I-NHE
SST39SF010A-70-4I-NHE
SST39SF040-55-4C-NHE-T
SST39SF020A-55-4C-NHE-T
SST39SF010A-55-4C-NHE-T
SST39SF040-70-4C-NHE-T
SST39SF020A-70-4C-NHE-T
SST39SF010A-70-4C-NHE-T
SST39SF040-55-4I-NHE-T
SST39SF020A-55-4I-NHE-T
SST39SF010A-55-4I-NHE-T
SST39SF040-70-4I-NHE-T
SST39SF020A-70-4I-NHE-T
SST39SF010A-70-4I-NHE-T