



All

Product Change Notification: CAAN-04EYJQ647

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 OSE as a new final test site for various products available in 32L TQFP (7x7x1mm), 44L TQFP (10x10x1mm), 64L TQFP (14x14x1mm) and 100L TQFP (14x14x1mm) packages.

Pre and Post Change Summary:

For 32L TQFP (7x7x1mm) package:

		Pre Change	Post Change
Final Test Site		Lingsen Precision Industries, LTD. (LPI)	Orient Semiconductor Electronics, Ltd (OSE)
Tape and Reel	BQM	2000	2000
	Pin 1 orientation	Quadrant 1	Quadrant 1
	Carrier Tape	With minor dimensional change. See Pre and Post Change for comparison.	
	Cover Tape	With minor dimensional change. See Pre and Post Change for comparison.	
	Reel	Dimension	With minor dimensional change. See Pre and Post Change for comparison.
Color		White	Blue
Tray	BQM	250	250
	Pin 1 orientation	See Pre and Post Change for comparison.	
T/R and Tray Packing Method		See Pre and Post Change for comparison.	

For 44L TQFP (10x10x1mm) package:

		Pre Change	Post Change
Final Test Site		Lingsen Precision Industries, LTD. (LPI)	Orient Semiconductor Electronics, Ltd (OSE)
Tape and Reel	BQM	2000	2000
	Pin 1 orientation	Quadrant 1	Quadrant 1
	Carrier Tape	With minor dimensional change. See Pre and Post Change for comparison.	
	Cover Tape	With minor dimensional change. See Pre and Post Change for comparison.	
	Reel	Dimension	No dimensional change. See Pre and Post Change for comparison.
Color		White	Blue
Tray	BQM	160	160
	Pin 1 orientation	See Pre and Post Change for comparison.	
T/R and Tray Packing Method		See Pre and Post Change for comparison.	

For 64L TQFP (14x14x1mm) package:

		Pre Change	Post Change
Final Test Site		Lingsen Precision Industries, LTD. (LPI)	Orient Semiconductor Electronics, Ltd (OSE)
Tape and Reel	BQM	1000	1000
	Pin 1 orientation	Quadrant 1	Quadrant 1
	Carrier Tape	With dimensional change. See Pre and Post Change for comparison.	
	Cover Tape	With dimensional change. See Pre and Post Change for comparison.	
	Reel	Dimension	With minor dimensional change. See Pre and Post Change for comparison.
Color		White	Blue
Tray	BQM	90	90
	Pin 1 orientation	See Pre and Post Change for comparison.	
T/R and Tray Packing Method		See Pre and Post Change for comparison.	

For 100L TQFP (14x14x1mm) package:

		Pre Change	Post Change
Final Test Site		Lingsen Precision Industries, LTD. (LPI)	Orient Semiconductor Electronics, Ltd (OSE)
Tape and Reel	BQM	1500	1500
	Pin 1 orientation	Quadrant 1	Quadrant 1
	Carrier Tape	With minor dimensional change. See Pre and Post Change for comparison.	
	Cover Tape	With minor dimensional change. See Pre and Post Change for comparison.	
	Reel	Dimension	With minor dimensional change. See Pre and Post Change for comparison.
Color		White	Blue
Tray	BQM	90	90
	Pin 1 orientation	See Pre and Post Change for comparison.	
T/R and Tray Packing Method		See Pre and Post Change for comparison.	

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on-time delivery performance by qualifying OSE as a new final test site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

September 23, 2024 (date code: 2439)

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

Time Table Summary:

	June 2024						>	August 2024					September 2024				
Workweek	22	23	24	25	26	27		31	32	33	34	35	36	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:

June 10, 2024: Issued initial notification.

August 15, 2024: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on September 23, 2024.

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

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

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Date

Aug 15, 2024

PCN Type

Manufacturing Change

PCN

CAAN-04EYJQ647

Title

CCB 6697 Final Notice: Qualification of OSE as a new final test site for various products available in 32L TQFP (7x7x1mm), 44L TQFP (10x10x1mm), 64L TQFP (14x14x1mm) and 100L TQFP (14x14x1mm) packages.

Product Category

8-Bit Microcontrollers, Capacitive Touch Sensors

Affected CPNs

CAAN-04EYJQ647_Affected_CPN_08152024.pdf

CAAN-04EYJQ647_Affected_CPN_08152024.csv

Attachments

PCN_CAAN-04EYJQ647_Pre and Post Change Summary.pdf

PCN_CAAN-04EYJQ647_Qualification Report.pdf



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Microchip Technology Inc.
2355 West Chandler Blvd.

Chandler, Arizona, USA



Affected Catalog Part Numbers (CPN)

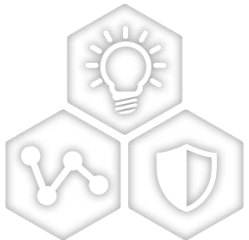
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ATMEGA324A-AU
ATMEGA324PA-AN
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AT89C51RC-24AU
ATMEGA324PA-ANR
AT89C55WD-24AU
AT89C55WD-24AUR
ATMEGA324PA-AUR
ATMEGA324A-AUR
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ATMEGA128-16AUR
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AT42QT1245-AU
ATTINY88-AUR
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AT42QT1244-AUR
AT42QT1245-AUR
QT60168-ASG
QT60168C-ASG
ATTINY828-AU
ATTINY828R-AU
ATTINY828-AUR
ATTINY828R-AUR
ATMEGA48PA-AN
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CCB 6697
Pre and Post Change Summary
PCN #: CAAN-04EYJQ647

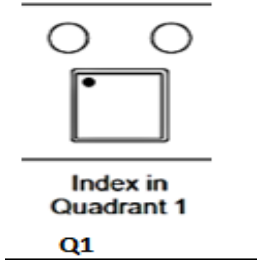

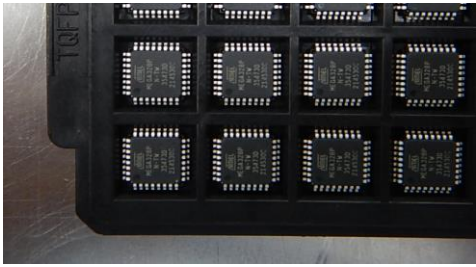
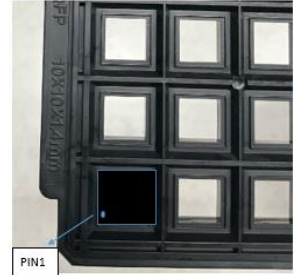


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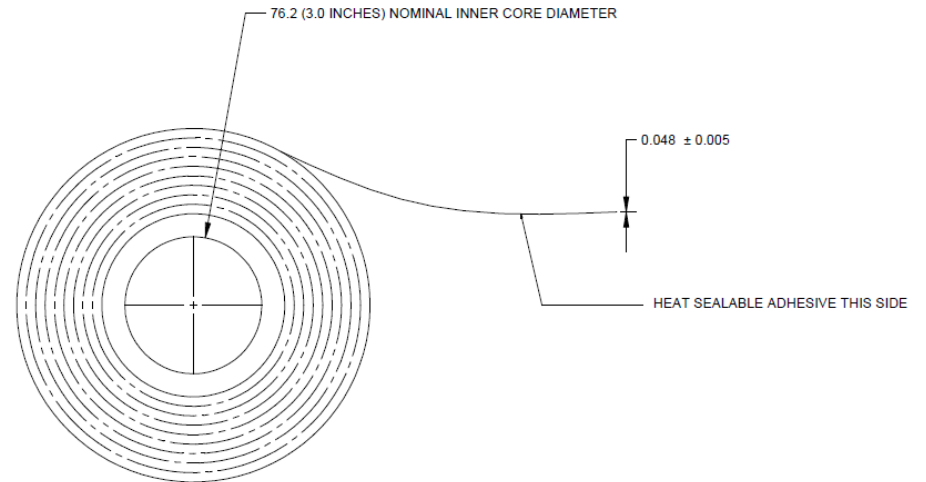
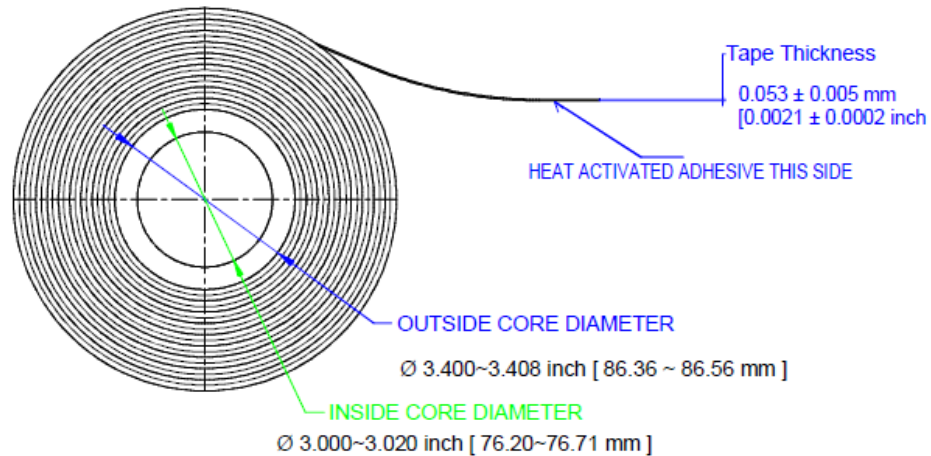
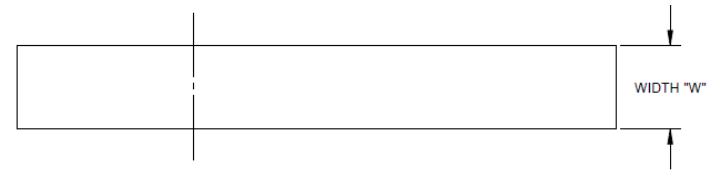
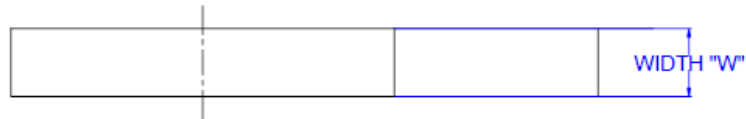
32L TQFP (7x7x1mm) package

		LPI	OSE
Tape and Reel	BQM	2000 units	2000 units
	Pin 1 Orientation	Quadrant 1  <p>Index in Quadrant 1 Q1</p>	Quadrant 1 
Tray	BQM	250	250
	Pin 1 Orientation	Tray hypotenuse position. 	Tray hypotenuse position. 

COVER TAPE - 32L TQFP (7x7x1mm) package

LPI

OSE

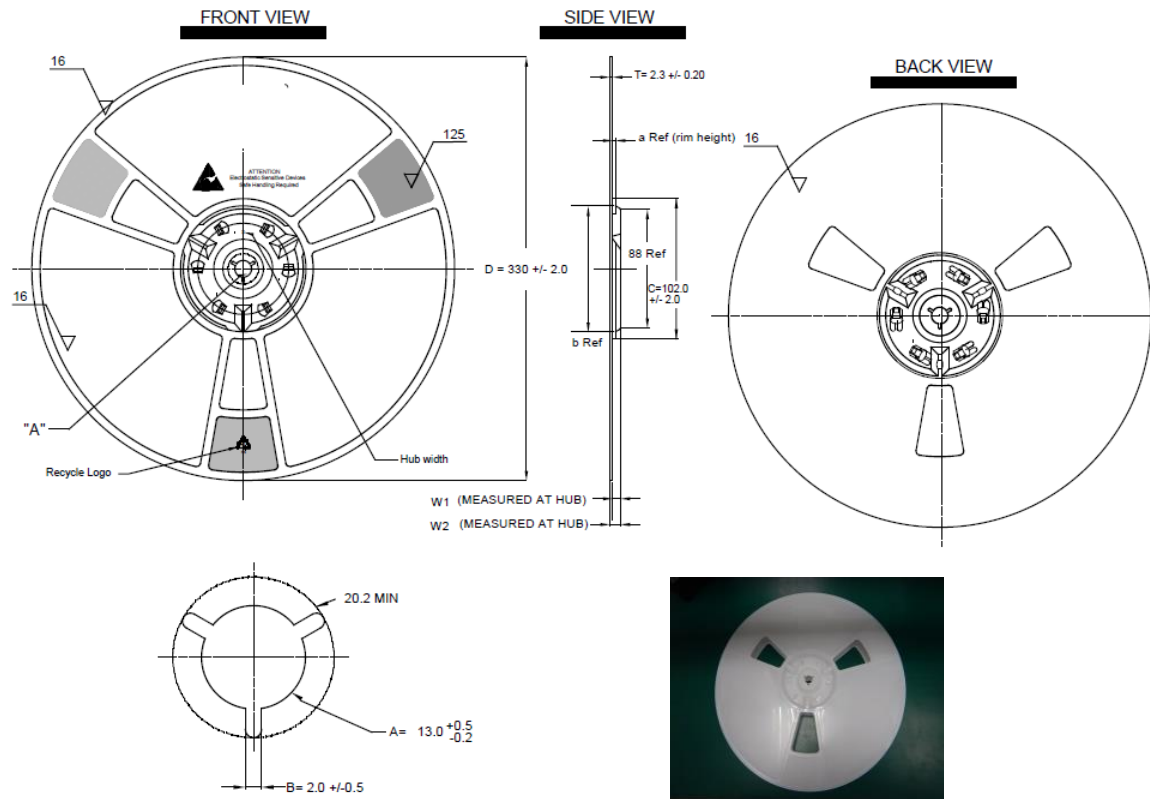


Width	Thickness	Sealing Method
13.3 ± 0.1mm	0.053±0.005mm	Heat

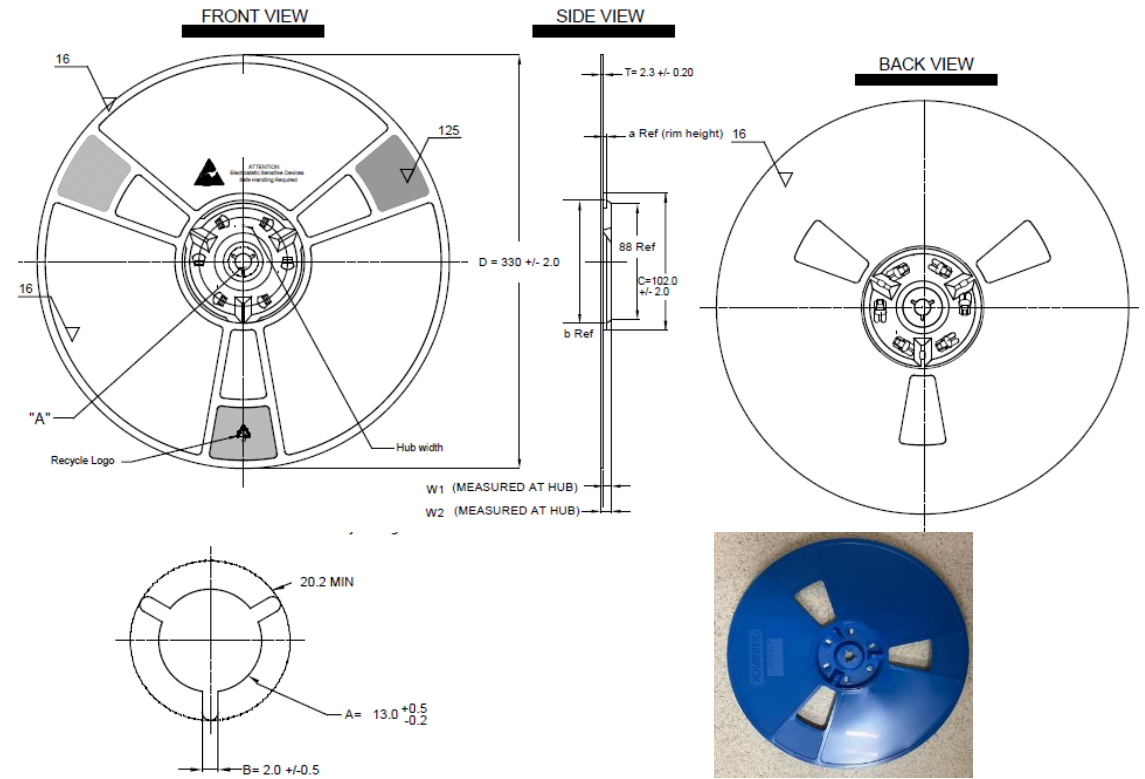
Width	Thickness	Sealing Method
13.3 mm	0.048 mm	Heat

REEL- 32L TQFP (7x7x1mm) package

LPI



OSE





Color	Diameter	Hub Dia	W1	W2
White	330 mm	100 mm	8.4 mm	11.1 mm

Color	Diameter	Hub Dia	W1	W2
Blue	330 mm	102 mm	8.4 mm	11.1 mm


PACKING METHOD for TnR - 32L TQFP (7x7x1mm) package

	LPI	OSE								
Desiccant	<p>66g</p>	<p>Two units 33g</p>								
Antistatic Shielding Bag / Moisture Barrier Bag	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>450 mm</td> <td>420 mm</td> </tr> </tbody> </table>	Length	Width	450 mm	420 mm	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>455 mm</td> <td>430 mm</td> </tr> </tbody> </table>	Length	Width	455 mm	430 mm
Length	Width									
450 mm	420 mm									
Length	Width									
455 mm	430 mm									



PACKING METHOD for TnR - 32L TQFP (7x7x1mm) package

	LPI	OSE												
<p>Carton Box</p>	<div style="text-align: center;">  </div> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">37 cm</td> <td style="text-align: center;">38 cm</td> <td style="text-align: center;">11 cm</td> </tr> </tbody> </table>	Length	Width	Height	37 cm	38 cm	11 cm	<div style="text-align: center;">  </div> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">35.6 cm</td> <td style="text-align: center;">34 cm</td> <td style="text-align: center;">5 cm</td> </tr> </tbody> </table>	Length	Width	Height	35.6 cm	34 cm	5 cm
Length	Width	Height												
37 cm	38 cm	11 cm												
Length	Width	Height												
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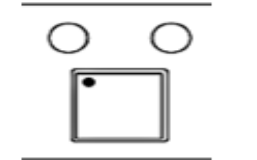

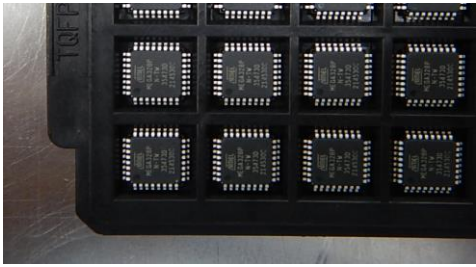
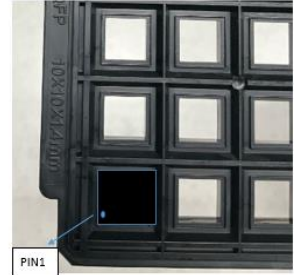
PACKING METHOD for Tray - 32L TQFP (7x7x1mm) package

	LPI	OSE								
Desiccant	<p>66g</p> 	<p>Two units 33g</p> 								
Antistatic Shielding Bag / Moisture Barrier Bag	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>565 mm</td> <td>300 mm</td> </tr> </tbody> </table>	Length	Width	565 mm	300 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>510 mm</td> <td>280 mm</td> </tr> </tbody> </table>	Length	Width	510 mm	280 mm
Length	Width									
565 mm	300 mm									
Length	Width									
510 mm	280 mm									

PACKING METHOD for Tray - 32L TQFP (7x7x1mm) package

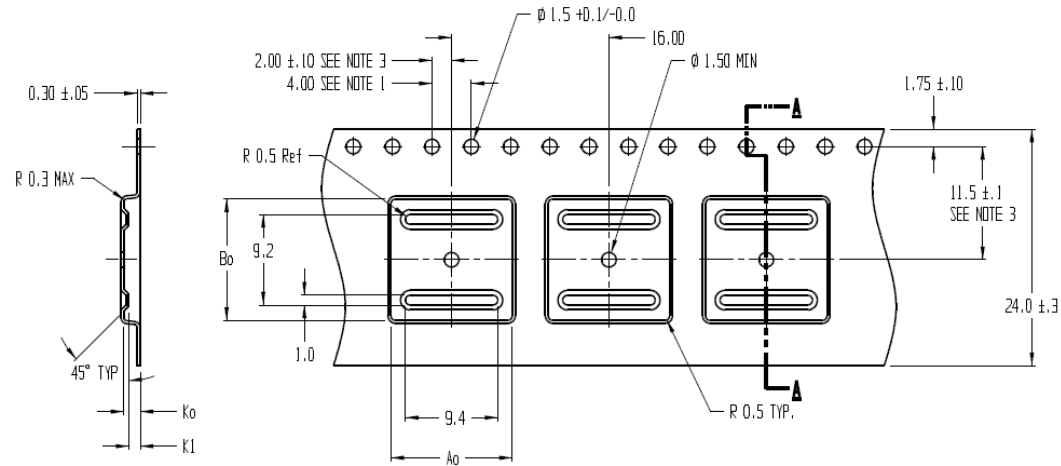
	LPI	OSE																	
Carton Box																			
	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td colspan="3">37.0x38.0x11.0 cm (2 inner box per 1 outer box)</td> </tr> <tr> <td colspan="3">37.0x38.0x22.5 cm (4 inner box per 1 outer box)</td> </tr> <tr> <td colspan="3">37.0x39.0x39.0 cm (8 inner box per 1 outer box)</td> </tr> </tbody> </table>	Length	Width	Height	37.0x38.0x11.0 cm (2 inner box per 1 outer box)			37.0x38.0x22.5 cm (4 inner box per 1 outer box)			37.0x39.0x39.0 cm (8 inner box per 1 outer box)			<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>37.15 cm</td> <td>16.2 cm</td> <td>8.8 cm</td> </tr> </tbody> </table>	Length	Width	Height	37.15 cm	16.2 cm
Length	Width	Height																	
37.0x38.0x11.0 cm (2 inner box per 1 outer box)																			
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37.0x39.0x39.0 cm (8 inner box per 1 outer box)																			
Length	Width	Height																	
37.15 cm	16.2 cm	8.8 cm																	

44L TQFP (10x10x1mm) package

		LPI	OSE
Tape and Reel	BQM	2000 units	2000 units
	Pin 1 Orientation	Quadrant 1  Index in Quadrant 1 Q1	Quadrant 1 
Tray	BQM	160	160
	Pin 1 Orientation	Tray hypotenuse position. 	Tray hypotenuse position. 

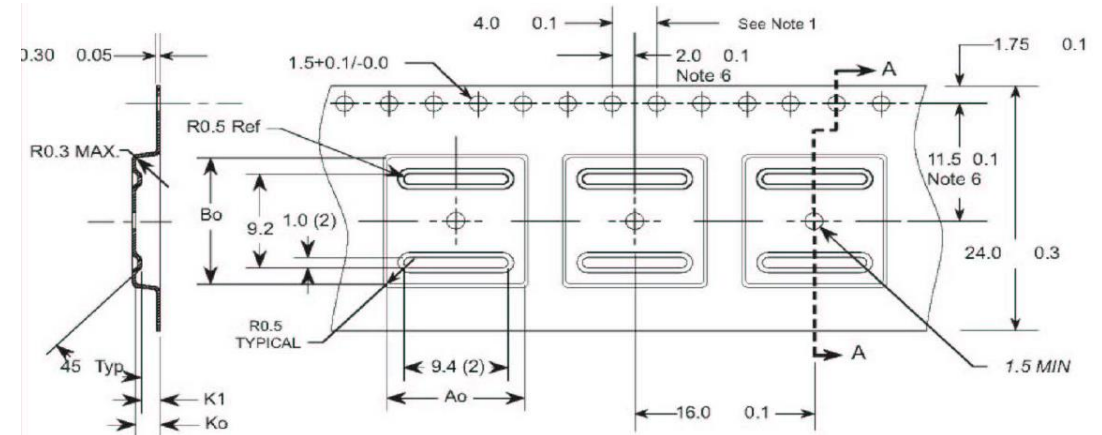
CARRIER TAPE - 44L TQFP (10x10x1mm) package

LPI



Width	Pitch	A0	B0	K0
24 mm	16 mm	12.35 mm	12.35 mm	1.65 mm

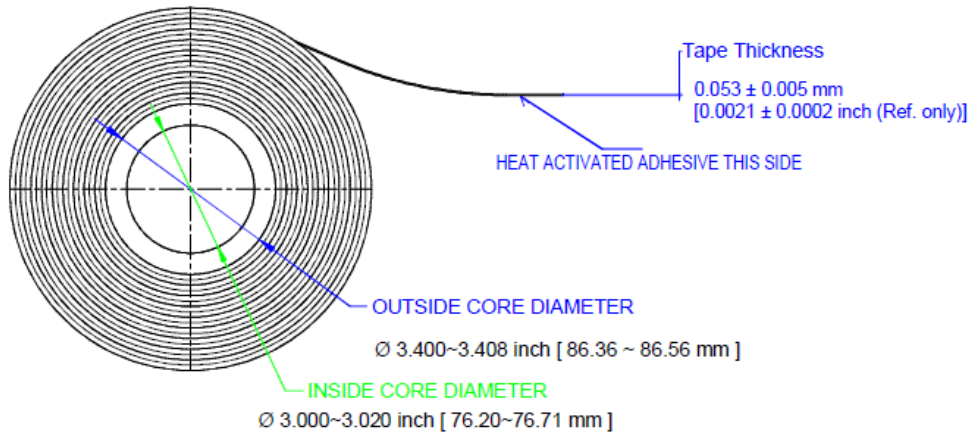
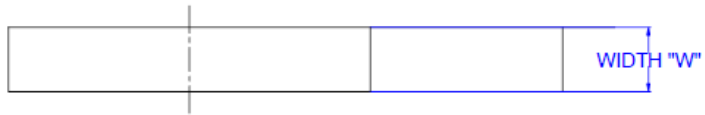
OSE



Width	Pitch	A0	B0	K0
24 mm	16 mm	12.35 mm	12.35 mm	2.20 mm

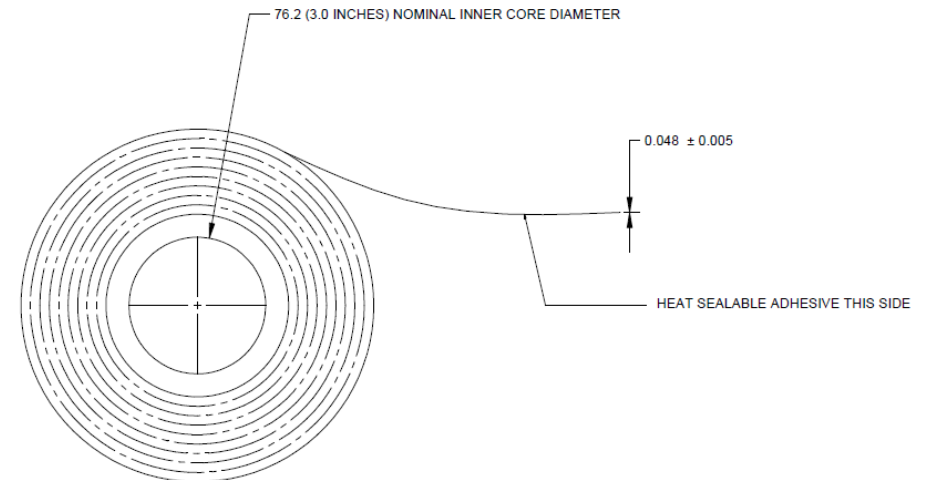
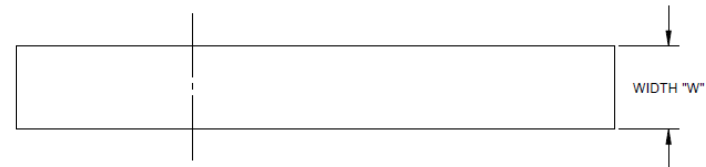
COVER TAPE - 44L TQFP (10x10x1mm) package

LPI



Width	Thickness	Sealing Method
21.00±0.10mm	0.053±0.005mm	Heat

OSE

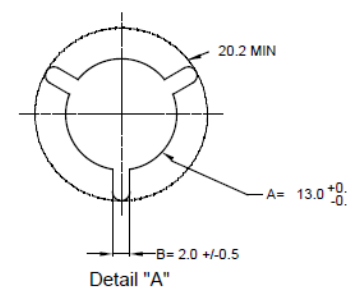
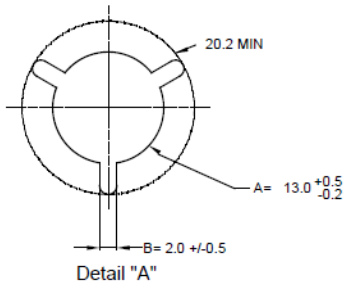
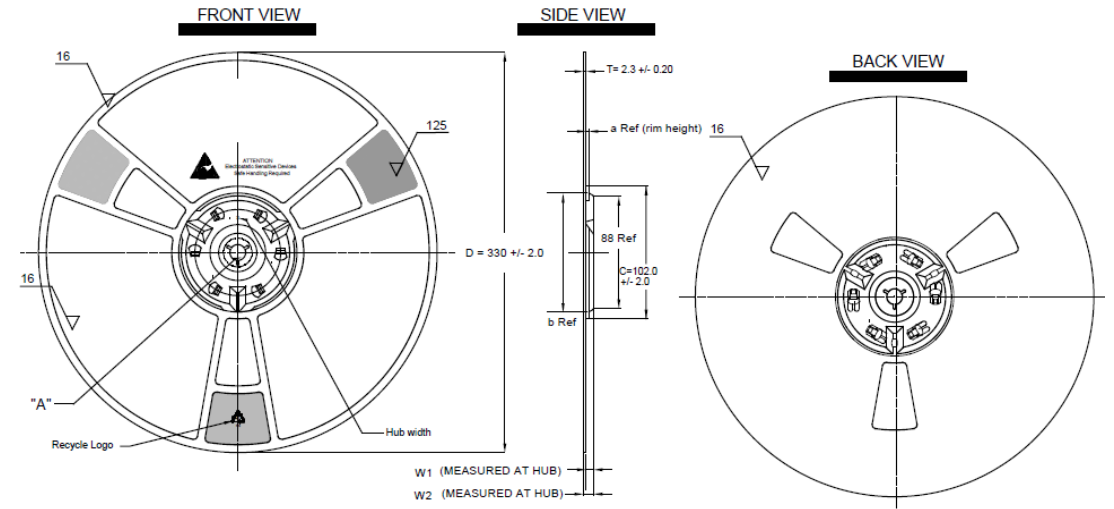
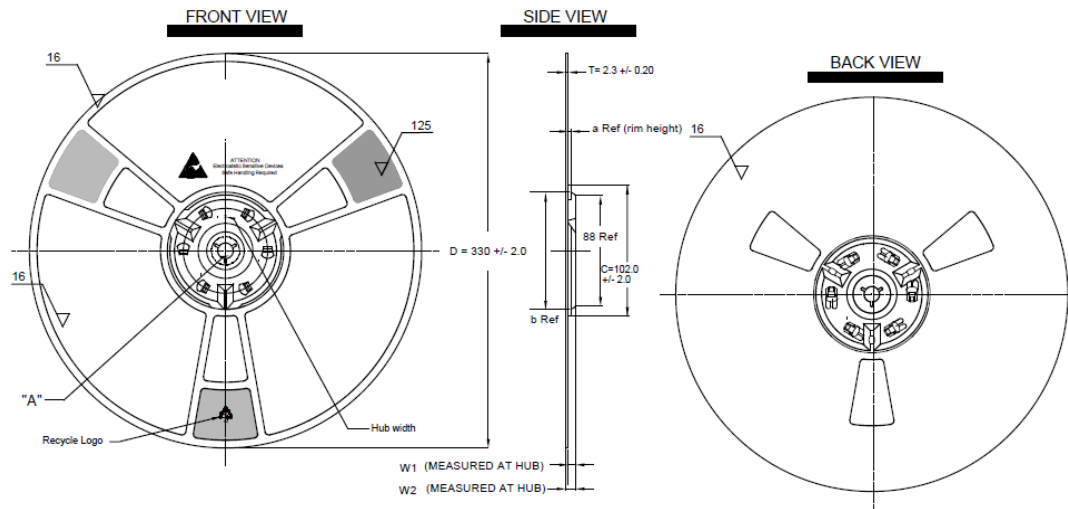


Width	Thickness	Sealing Method
21 mm	0.048 mm	Heat

REEL- 44L TQFP (10x10x1mm) package

LPI

OSE



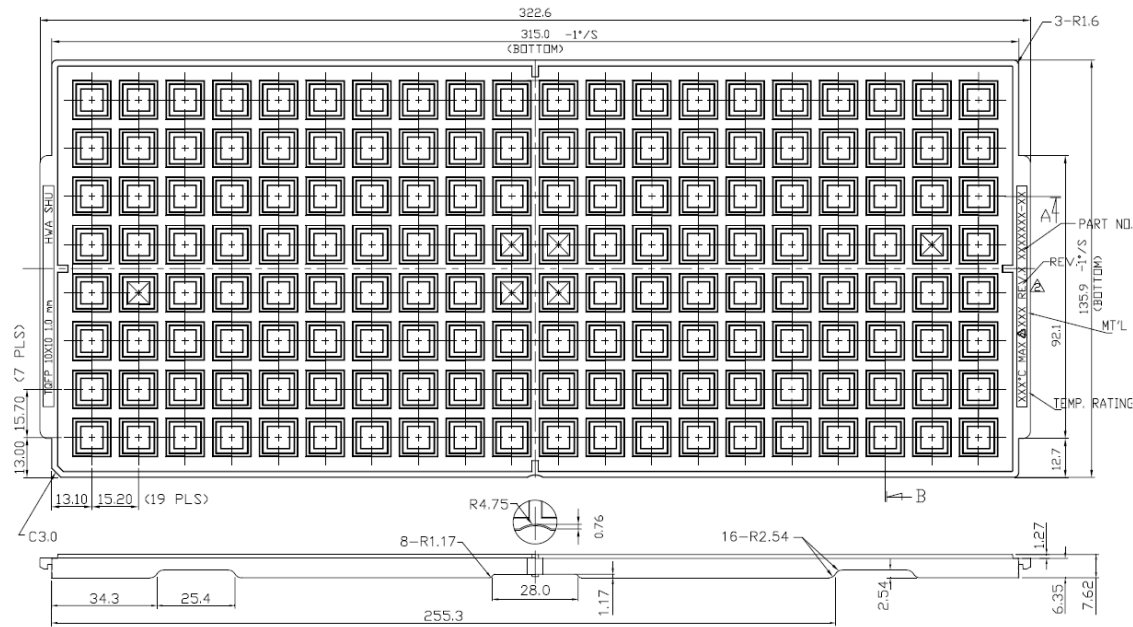
Color	Diameter	Hub Dia	W1	W2
White	330 mm	102 mm	8.4 mm 16.4mm	11.1 mm 19.1mm

Color	Diameter	Hub Dia	W1	W2
Blue	330 mm	102 mm	8.4 mm 16.4 mm	11.1 mm 19.1 mm

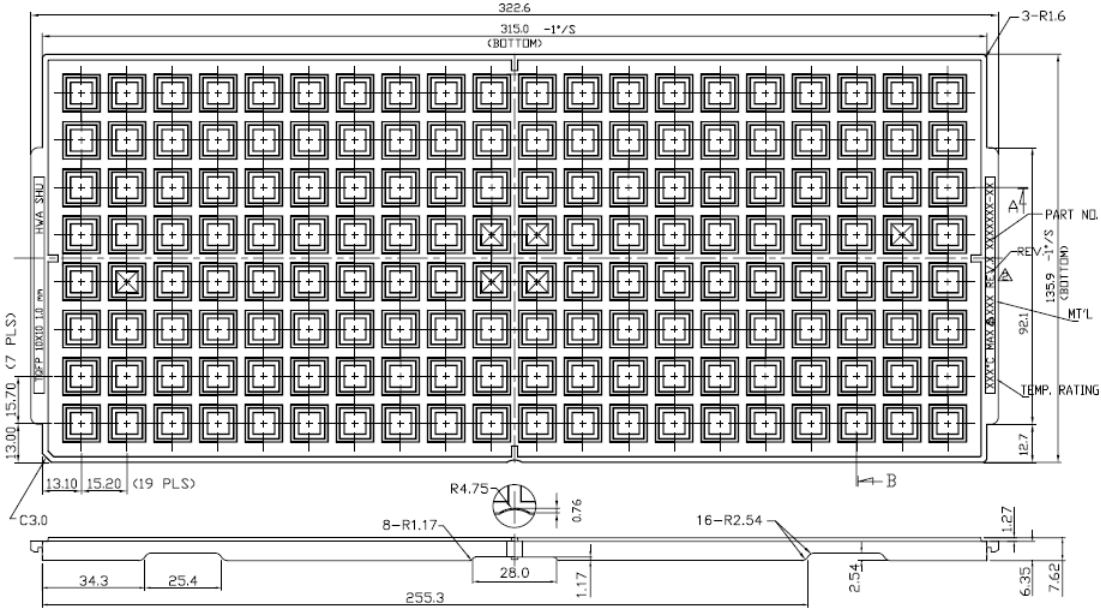
TRAY - 44L TQFP (10x10x1mm) package

LPI

OSE

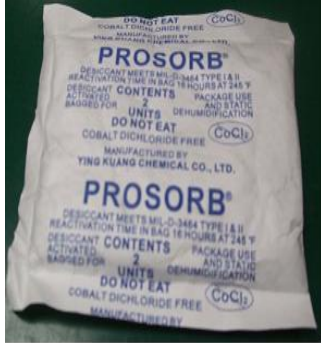
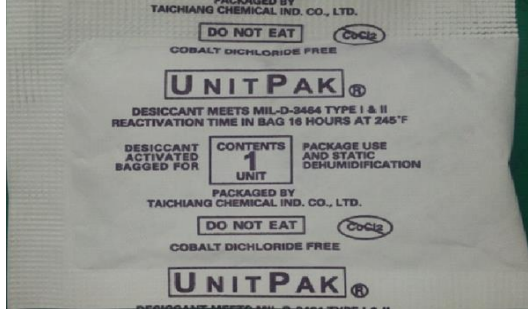

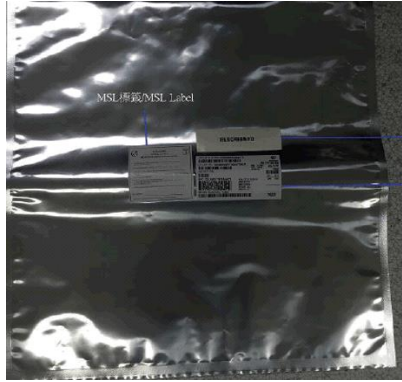


Length
322.6mm





Length
322.6mm


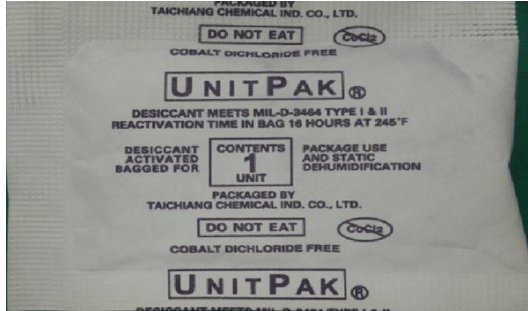

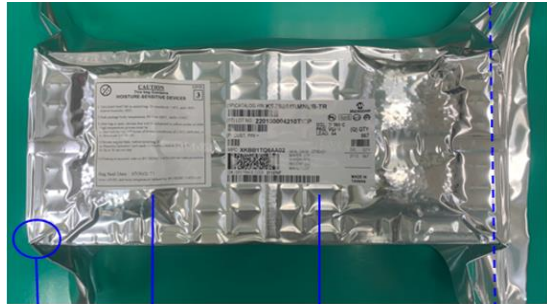
PACKING METHOD for TnR - 44L TQFP (10x10x1mm) package

	LPI	OSE										
<p>Desiccant</p>	<p>66g (unit 2) 12x11cm</p> 	<p>Two units 33g</p> 										
<p>Antistatic Shielding Bag / Moisture Barrier Bag</p>	 <p>金屬袋</p> <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>430 mm</td> <td>470 mm</td> </tr> <tr> <td>392 mm</td> <td>430 mm</td> </tr> </tbody> </table>	Length	Width	430 mm	470 mm	392 mm	430 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>455 mm</td> <td>430 mm</td> </tr> </tbody> </table>	Length	Width	455 mm	430 mm
Length	Width											
430 mm	470 mm											
392 mm	430 mm											
Length	Width											
455 mm	430 mm											


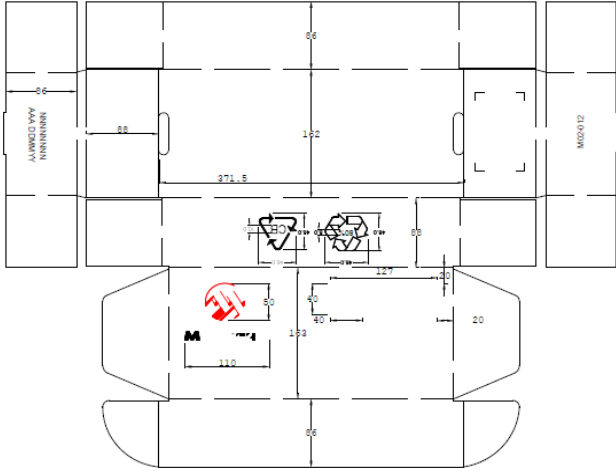
PACKING METHOD for TnR - 44L TQFP (10x10x1mm) package

	LPI	OSE												
<p>Carton Box</p>	<div style="text-align: center;">  </div> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Length</th> <th style="width: 33%;">Width</th> <th style="width: 33%;">Height</th> </tr> </thead> <tbody> <tr> <td>370 mm</td> <td>384 mm</td> <td>225 mm</td> </tr> </tbody> </table>	Length	Width	Height	370 mm	384 mm	225 mm	<div style="text-align: center;">  </div> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Length</th> <th style="width: 33%;">Width</th> <th style="width: 33%;">Height</th> </tr> </thead> <tbody> <tr> <td>356 mm</td> <td>340 mm</td> <td>50 mm</td> </tr> </tbody> </table>	Length	Width	Height	356 mm	340 mm	50 mm
Length	Width	Height												
370 mm	384 mm	225 mm												
Length	Width	Height												
356 mm	340 mm	50 mm												

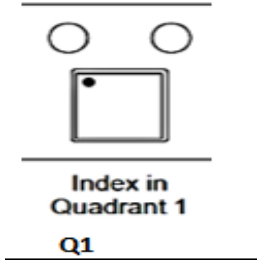

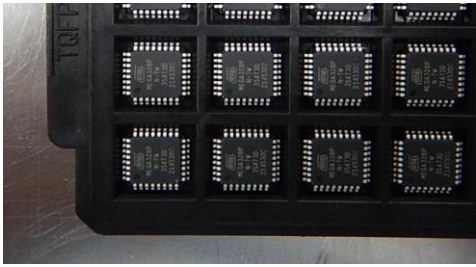
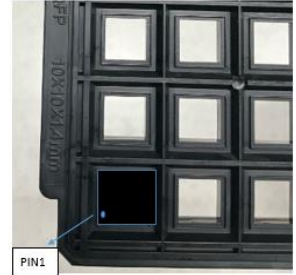
PACKING METHOD for Tray - 44L TQFP (10x10x1mm) package

	LPI	OSE								
Desiccant	<p>66g (unit 2) 12x11cm</p> 	<p>Two units 33g</p> 								
Antistatic Shielding Bag / Moisture Barrier Bag	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td colspan="2">0.17x300x570 mm</td> </tr> </tbody> </table>	Length	Width	0.17x300x570 mm		 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td colspan="2">510x280x0.15 mm</td> </tr> </tbody> </table>	Length	Width	510x280x0.15 mm	
Length	Width									
0.17x300x570 mm										
Length	Width									
510x280x0.15 mm										

PACKING METHOD for Tray - 44L TQFP (10x10x1mm) package

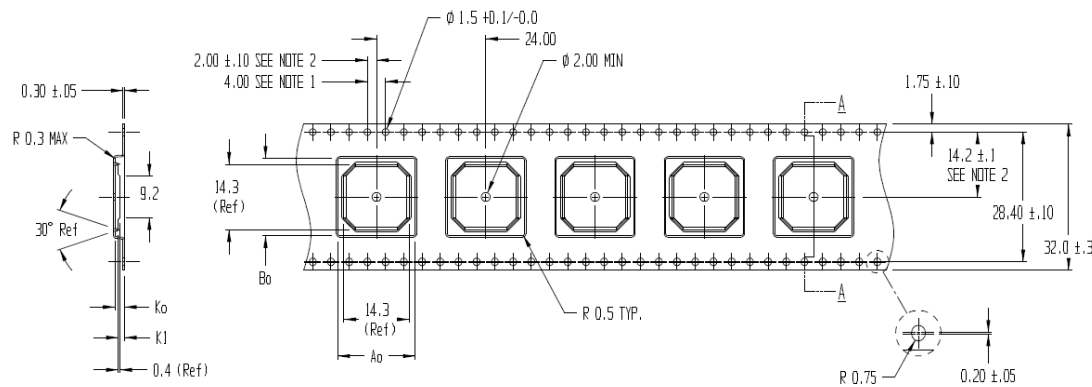
	LPI	OSE												
<p>Carton Box</p>	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>370 mm</td> <td>384 mm</td> <td>225 mm</td> </tr> </tbody> </table>	Length	Width	Height	370 mm	384 mm	225 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>371.5 mm</td> <td>162 mm</td> <td>88 mm</td> </tr> </tbody> </table>	Length	Width	Height	371.5 mm	162 mm	88 mm
Length	Width	Height												
370 mm	384 mm	225 mm												
Length	Width	Height												
371.5 mm	162 mm	88 mm												

64L TQFP (14x14x1mm) package

		LPI	OSE
Tape and Reel	BQM	1000 units	1000 units
	Pin 1 Orientation	Quadrant 1  Index in Quadrant 1 Q1	Quadrant 1 
Tray	BQM	90	90
	Pin 1 Orientation	Near tray chamfer 	Left lower 

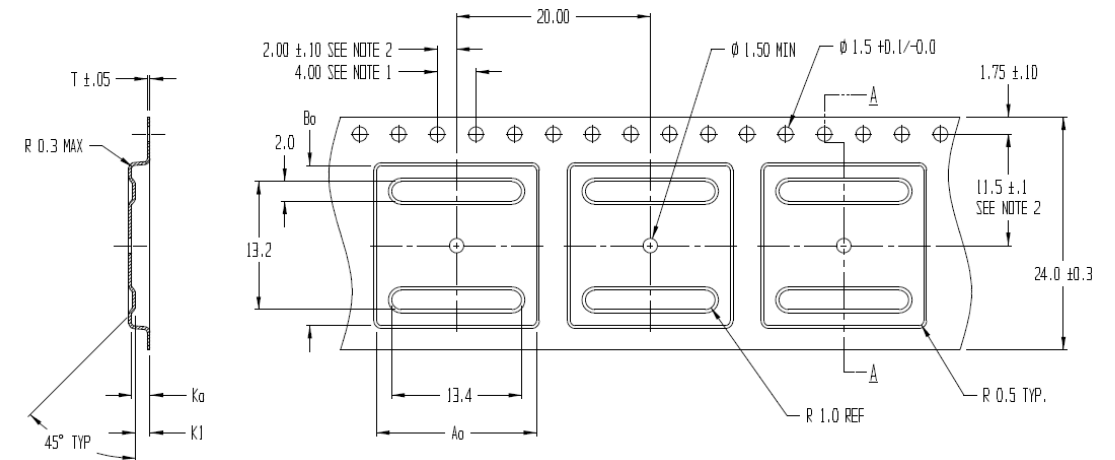
CARRIER TAPE - 64L TQFP (14x14x1mm) package

LPI



Width	Pitch	A0	B0	K0
32 mm	24 mm	17 mm	17 mm	2.10 mm

OSE

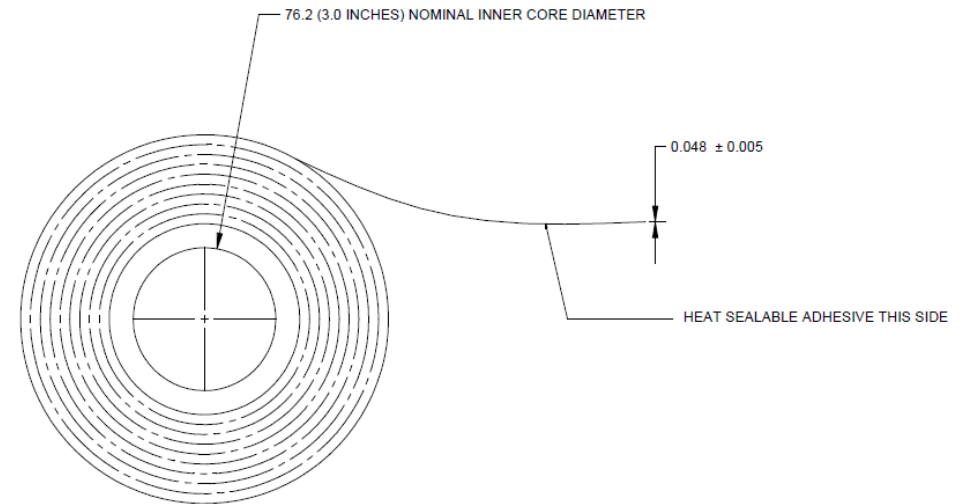
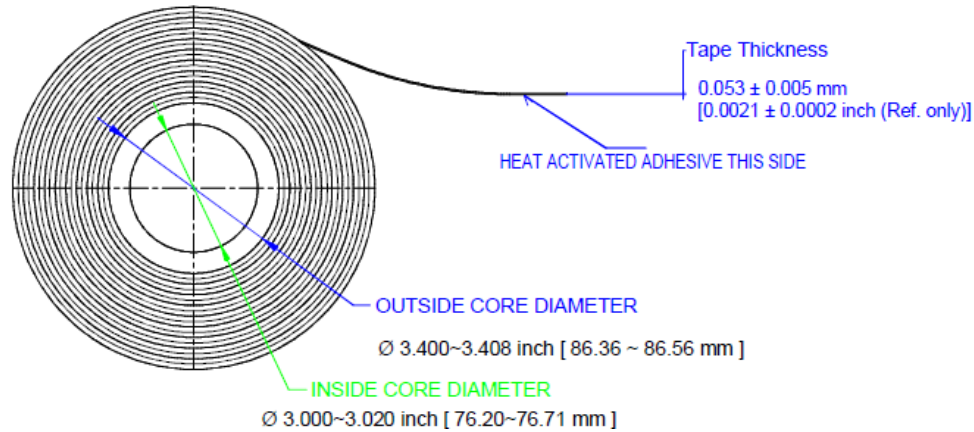
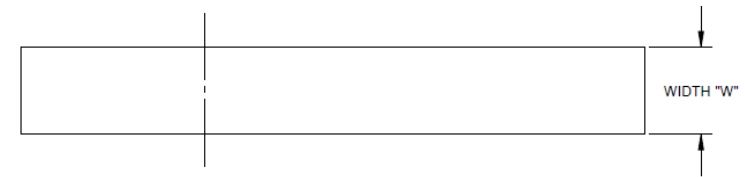
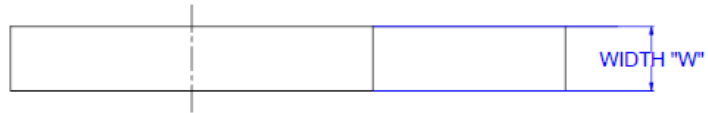


Width	Pitch	A0	B0	K0
24 mm	20 mm	16.5 mm	16.5 mm	1.9 mm

COVER TAPE - 64L TQFP (14x14x1mm) package

LPI

OSE

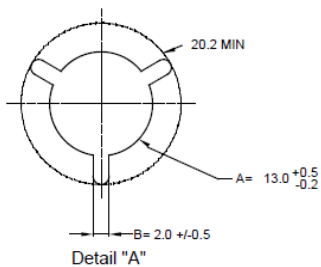
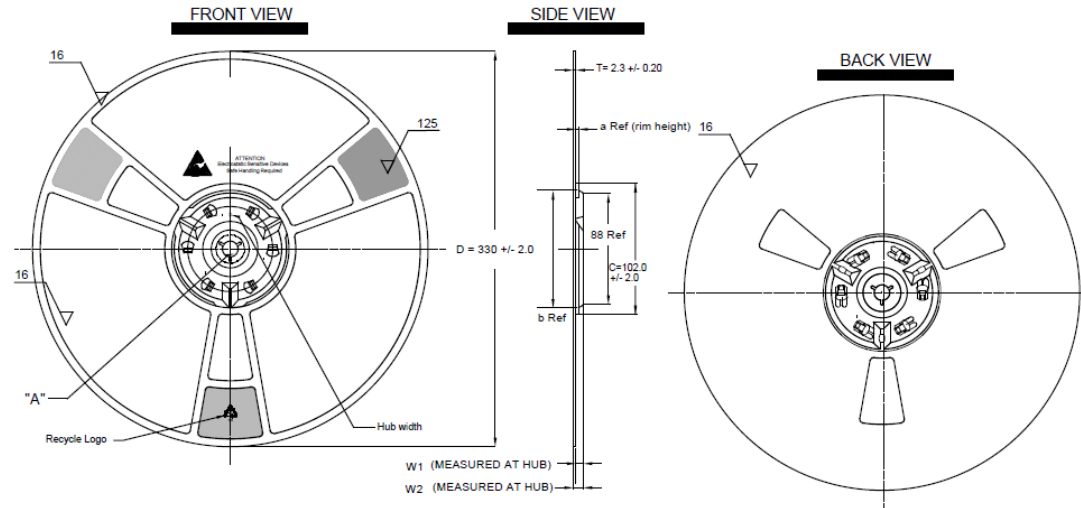


Width	Thickness	Sealing Method
25.50±0.10mm	0.053±0.005mm	Heat

Width	Thickness	Sealing Method
21 mm	0.048 mm	Heat

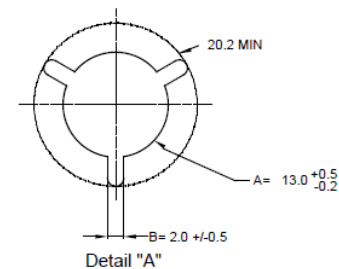
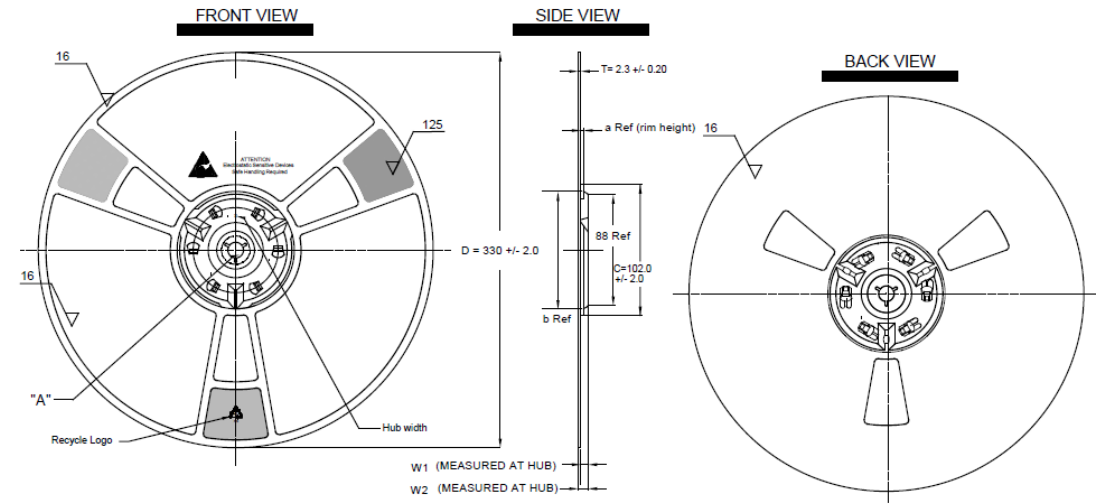
REEL- 64L TQFP (14x14x1mm) package

LPI



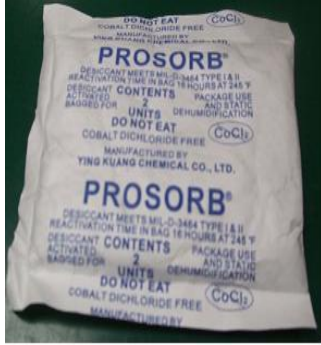
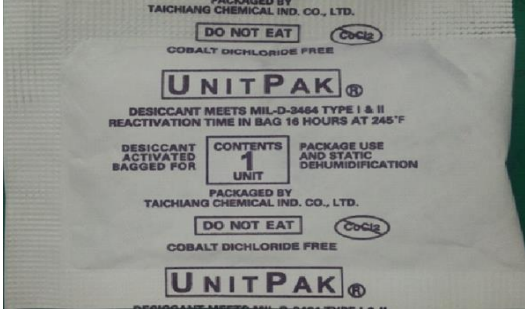


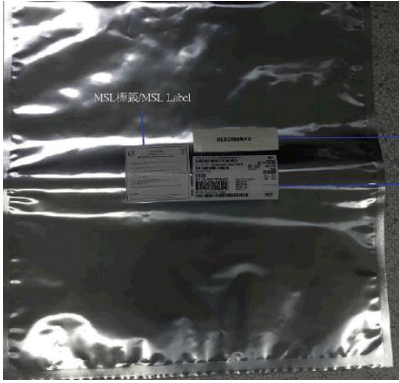
Color	Diameter	Hub Dia	W1	W2
White	330 mm	102 mm	16.4 mm 16.4mm	19.1 mm 19.1mm

OSE





Color	Diameter	Hub Dia	W1	W2
Blue	330 mm	102 mm	8.4 mm 16.4 mm	11.1 mm 19.1 mm


PACKING METHOD for TnR - 64L TQFP (14x14x1mm) package

	LPI	OSE										
Desiccant	<p>66g (unit 2) 12x11cm</p> 	<p>Two units 33g</p> 										
Antistatic Shielding Bag / Moisture Barrier Bag	<div style="display: flex; justify-content: space-around;">   </div> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>430 mm</td> <td>470 mm</td> </tr> <tr> <td>392 mm</td> <td>430 mm</td> </tr> </tbody> </table>	Length	Width	430 mm	470 mm	392 mm	430 mm	 <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>450 mm</td> <td>490 mm</td> </tr> </tbody> </table>	Length	Width	450 mm	490 mm
Length	Width											
430 mm	470 mm											
392 mm	430 mm											
Length	Width											
450 mm	490 mm											


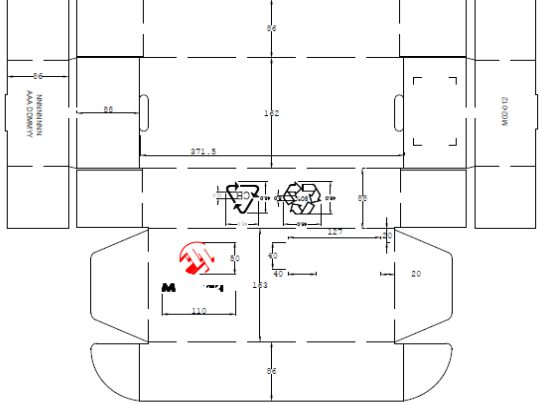
PACKING METHOD for TnR - 64L TQFP (14x14x1mm) package

	LPI	OSE											
Carton Box													
	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>370 mm</td> <td>384 mm</td> <td>225 mm</td> </tr> </tbody> </table>	Length	Width	Height	370 mm	384 mm	225 mm	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>356 mm</td> <td>340 mm</td> <td>50 mm</td> </tr> </tbody> </table>	Length	Width	Height	356 mm	340 mm
Length	Width	Height											
370 mm	384 mm	225 mm											
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356 mm	340 mm	50 mm											

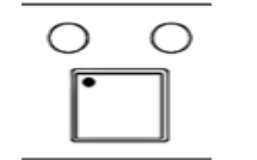

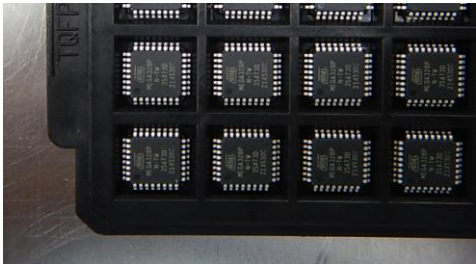
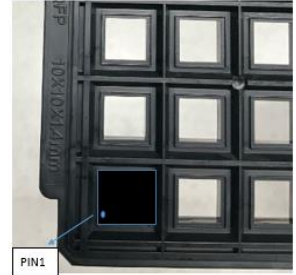
PACKING METHOD for Tray - 64L TQFP (14x14x1mm) package

	LPI	OSE								
Desiccant	<p>66g (unit 2) 12x11cm</p> 	<p>Two units 33g</p> 								
Antistatic Shielding Bag / Moisture Barrier Bag	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td colspan="2">300x570x0.17 mm</td> </tr> </tbody> </table>	Length	Width	300x570x0.17 mm		 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td colspan="2">510x280x0.15mm</td> </tr> </tbody> </table>	Length	Width	510x280x0.15mm	
Length	Width									
300x570x0.17 mm										
Length	Width									
510x280x0.15mm										

PACKING METHOD for TnR - 64L TQFP (14x14x1mm) package

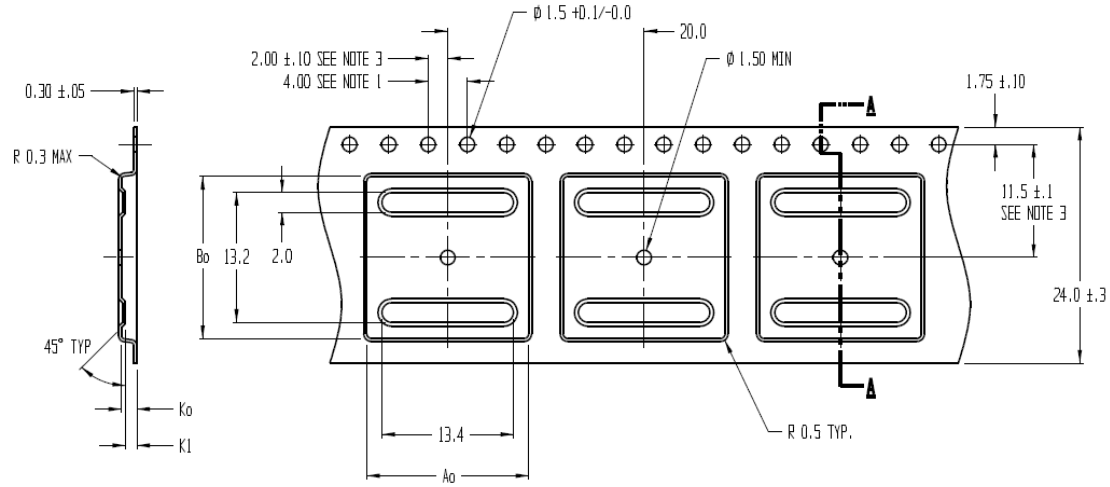
	LPI	OSE												
Carton Box	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>37.15 mm</td> <td>162 mm</td> <td>88 mm</td> </tr> </tbody> </table>	Length	Width	Height	37.15 mm	162 mm	88 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>371 mm</td> <td>162 mm</td> <td>88 mm</td> </tr> </tbody> </table>	Length	Width	Height	371 mm	162 mm	88 mm
Length	Width	Height												
37.15 mm	162 mm	88 mm												
Length	Width	Height												
371 mm	162 mm	88 mm												

100L TQFP (14x14x1mm) package

		LPI	OSE
Tape and Reel	BQM	1500 units	1500 units
	Pin 1 Orientation	Quadrant 1  Index in Quadrant 1 Q1	Quadrant 1 
Tray	BQM	90	90
	Pin 1 Orientation	Tray hypotenuse position. 	Left lower 

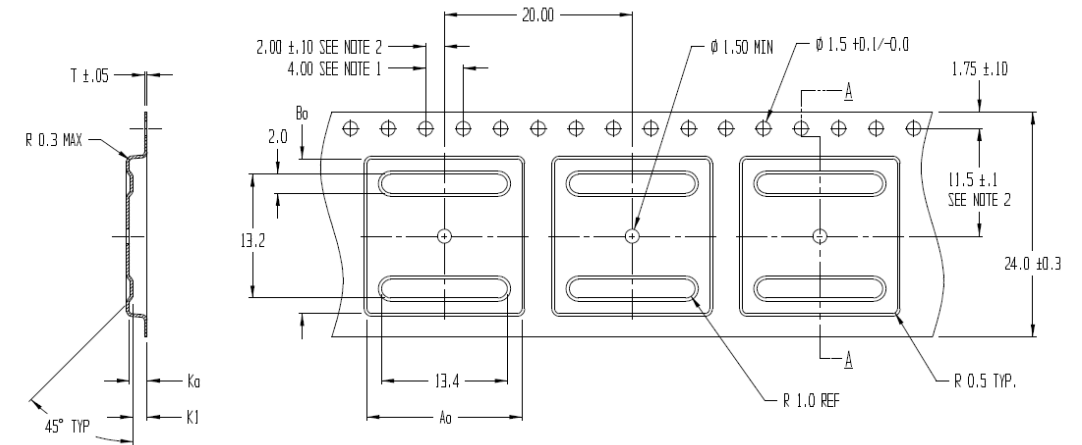
CARRIER TAPE - 100L TQFP (14x14x1mm) package

LPI



Width	Pitch	A0	B0	K0	K1
24 mm	20 mm	16.5 mm	16.5 mm	1.55 mm	1.2 mm

OSE

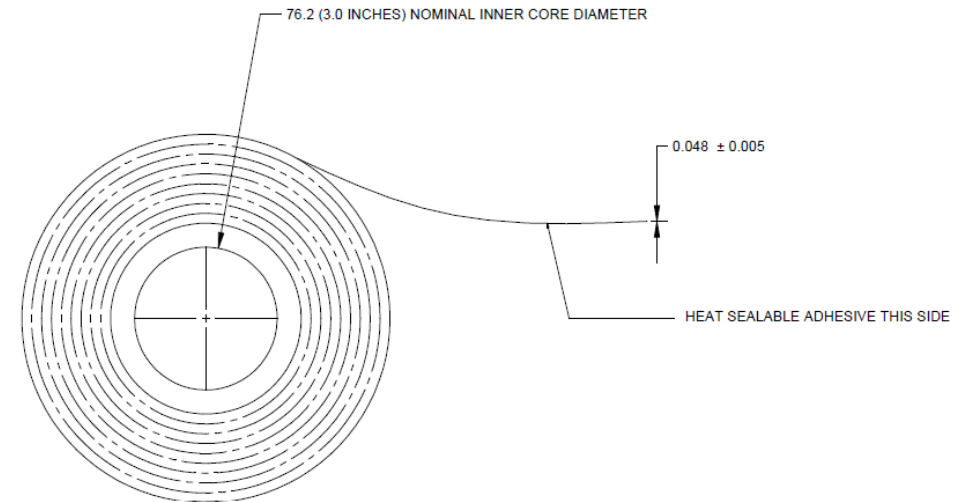
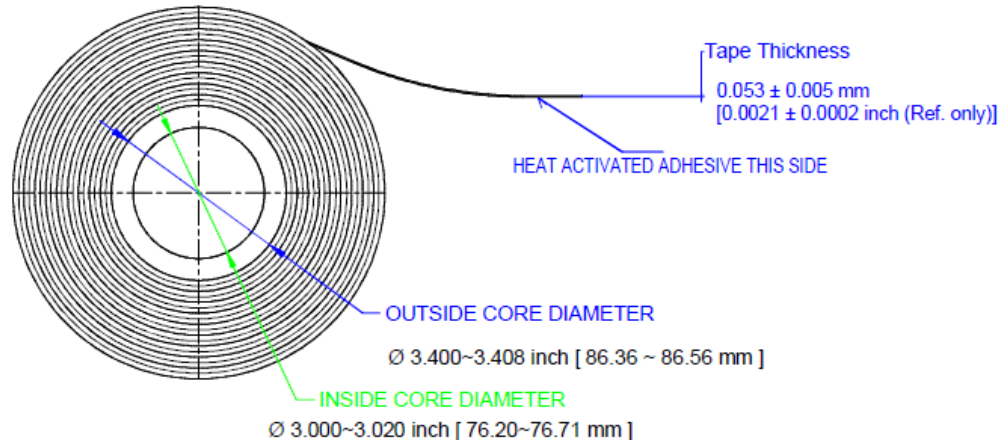
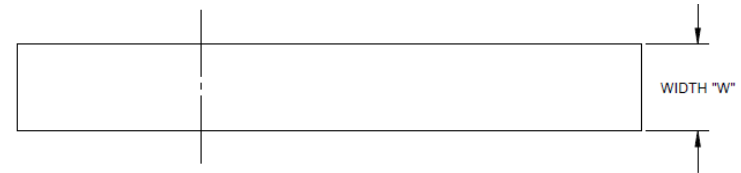
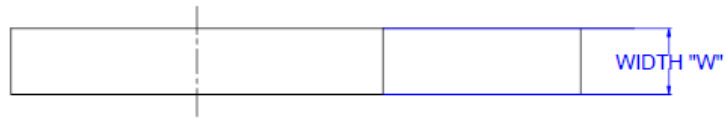


Width	Pitch	A0	B0	K0	K1
24 mm	20 mm	16.5 mm	16.5 mm	1.9 mm	1.55 mm

COVER TAPE - 100L TQFP (14x14x1mm) package

LPI

OSE

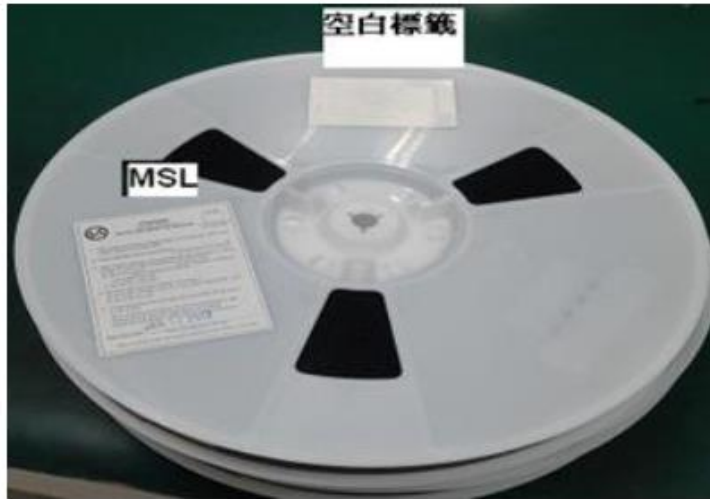


Width	Thickness	Sealing Method
21.00±0.10mm	0.053±0.005mm	Heat

Width	Thickness	Sealing Method
21 mm	0.048 mm	Heat

REEL- 100L TQFP (14x14x1mm) package

LPI



Color	Diameter	Hub Dia	W1	W2
White	330 mm	8 mm	8.4 mm	11.1 mm
	330 mm	16 mm	16.4mm	19.1mm

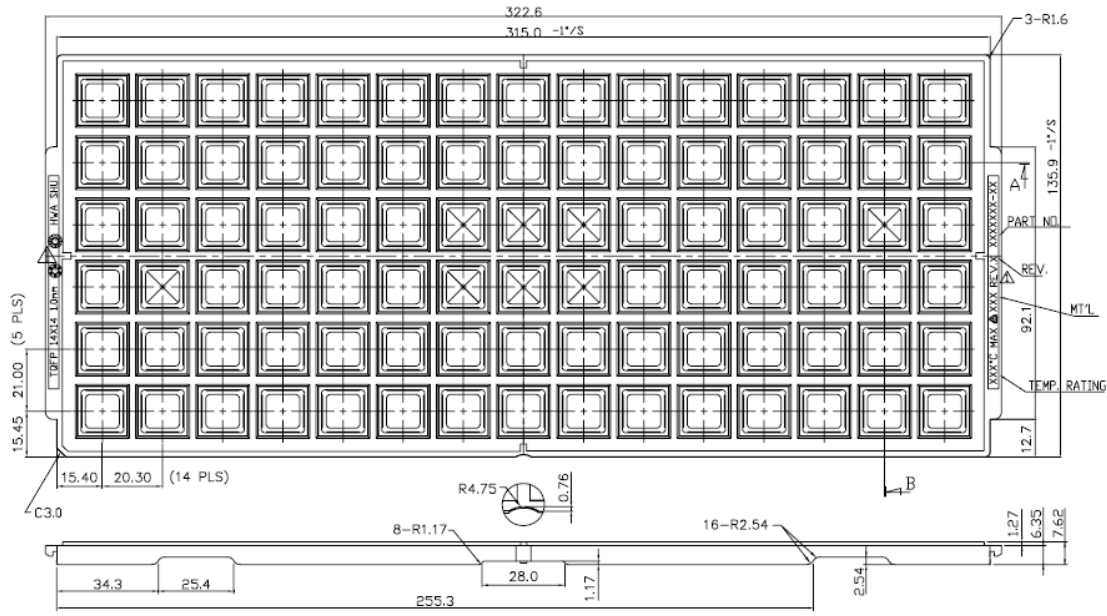
OSE



Color	Diameter	Hub Dia	W1	W2
Blue	330 mm	102 mm	8.4 mm	11.1 mm
	330 mm	102 mm	16.4 mm	19.1 mm

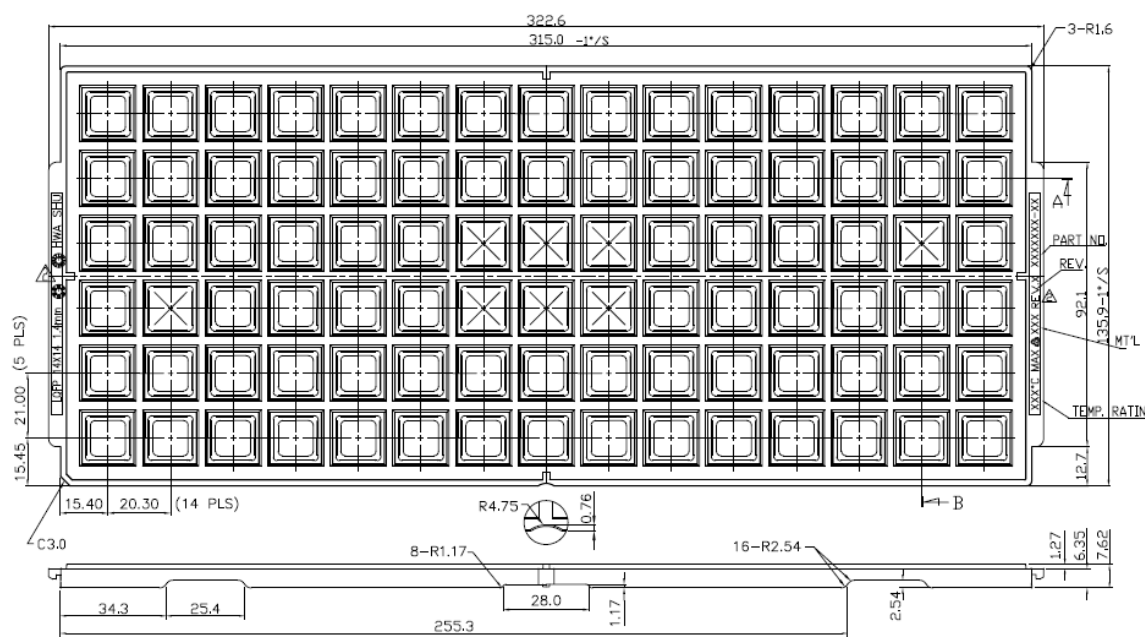
TRAY - 100L TQFP (14x14x1mm) package

LPI




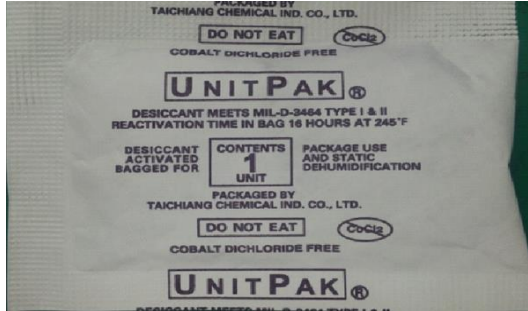

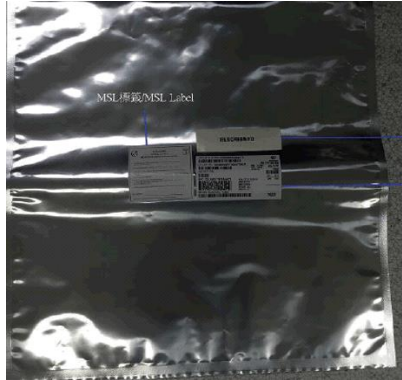
Length
322.6mm

OSE





Length
322.6mm


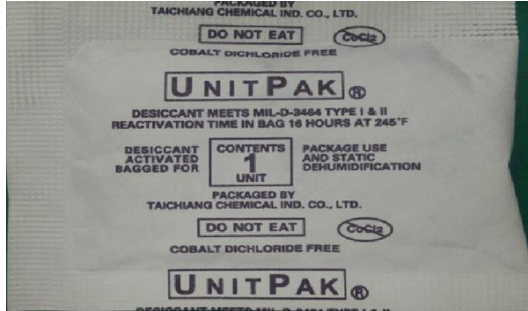

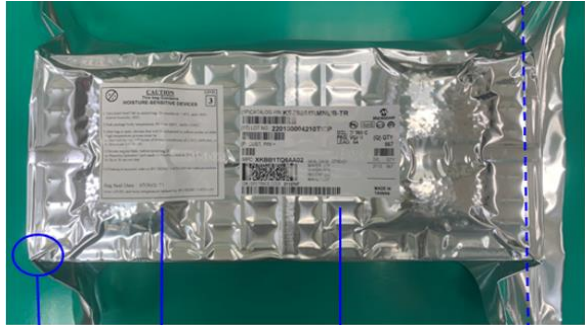
PACKING METHOD for TnR - 100L TQFP (14x14x1mm) package

	LPI	OSE								
Desiccant	<p>66g (unit 2) 12x11cm</p> 	<p>Two units 33g</p> 								
Antistatic Shielding Bag / Moisture Barrier Bag	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>400 mm</td> <td>470 mm</td> </tr> </tbody> </table>	Length	Width	400 mm	470 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>455 mm</td> <td>430 mm</td> </tr> </tbody> </table>	Length	Width	455 mm	430 mm
Length	Width									
400 mm	470 mm									
Length	Width									
455 mm	430 mm									

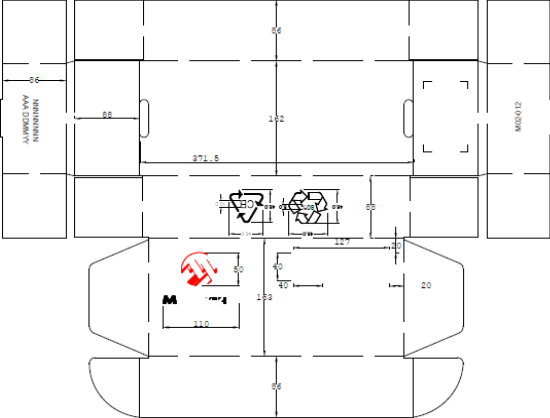
PACKING METHOD for TnR - 100L TQFP (14x14x1mm) package

	LPI	OSE											
Carton Box													
	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td colspan="3">37 x 38 x 11 cm</td> </tr> </tbody> </table>	Length	Width	Height	37 x 38 x 11 cm			<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>35.6 cm</td> <td>34.0 cm</td> <td>5.0 cm</td> </tr> </tbody> </table>	Length	Width	Height	35.6 cm	34.0 cm
Length	Width	Height											
37 x 38 x 11 cm													
Length	Width	Height											
35.6 cm	34.0 cm	5.0 cm											

PACKING METHOD for Tray - 100L TQFP (14x14x1mm) package

	LPI	OSE								
Desiccant	<p>66g (unit 2) 12x11cm</p> 	<p>Two units 33g</p> 								
Antistatic Shielding Bag / Moisture Barrier Bag	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>300 mm</td> <td>570 mm</td> </tr> </tbody> </table>	Length	Width	300 mm	570 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>280 mm</td> <td>510 mm</td> </tr> </tbody> </table>	Length	Width	280 mm	510 mm
Length	Width									
300 mm	570 mm									
Length	Width									
280 mm	510 mm									

PACKING METHOD for Tray - 100L TQFP (14x14x1mm) package

	LPI	OSE												
<p>Carton Box</p>	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>370 mm</td> <td>384 mm</td> <td>225 mm</td> </tr> </tbody> </table>	Length	Width	Height	370 mm	384 mm	225 mm	 <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>371.5 mm</td> <td>162 mm</td> <td>88 mm</td> </tr> </tbody> </table>	Length	Width	Height	371.5 mm	162 mm	88 mm
Length	Width	Height												
370 mm	384 mm	225 mm												
Length	Width	Height												
371.5 mm	162 mm	88 mm												



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: CAAN-04EYJQ647

**Date:
August 06, 2024**

Qualification of OSE as a new final test site for various products available in 32L TQFP (7x7x1mm), 44L TQFP (10x10x1mm), 64L TQFP (14x14x1mm) and 100L TQFP (14x14x1mm) packages.

Purpose: Qualification of OSE as a new final test site for various products available in 32L TQFP (7x7x1mm), 44L TQFP (10x10x1mm), 64L TQFP (14x14x1mm) and 100L TQFP (14x14x1mm) packages.

CCB No.: 6697

Test / Evaluation	Test Conditions / Parameters	Result
Datalog/Bin Comparison	<ul style="list-style-type: none"> ➤ Compare test numbers, test names, test sequence bin assignments & pass/fail results ➤ Accept if all match or justify the differences 	Passed
Site by Site Verification	<ul style="list-style-type: none"> ➤ Verifies the channel map has the correct site assignments and tester/handler communications work correctly 	Passed
Correlation Lot Report	<ul style="list-style-type: none"> ➤ Yield comparison between systems and test sites ➤ Accept on yield match within 0.1% 	Passed
Test Stability Verification	<ul style="list-style-type: none"> ➤ 50 loop test performed with no datalog delays <ul style="list-style-type: none"> - Accept on 0 fails 	Passed