



Product Change Notification / KSRA-23NSZE057

Date:

01-Mar-2021

Product Category:

Ethernet PHYs, USB Hubs

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4568 Initial Notice: Qualification of SIGH as an additional final test site for selected KSZ9031RNxx, MEC1515H and USB72xx device families available in 48L VQFN, 100L VQFN and 132L DQFN packages

Affected CPNs:

[KSRA-23NSZE057_Affected_CPN_03012021.pdf](#)
[KSRA-23NSZE057_Affected_CPN_03012021.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 SIGH as an additional final test site for selected KSZ9031RNxx, MEC1515H and USB72xx device families available in 48L VQFN, 100L VQFN and 132L DQFN packages

Pre and Post Change Summary:

	Pre Change	Post Change	
Final Test Site	Microchip Technology Thailand (HQ) /MTAI	Microchip Technology Thailand (HQ) /MTAI	Sigurd (Hukuo) – Taiwan (TEST) / SIGH

Affected Catalog Part Numbers (CPN)

KSZ9031RNXCC
KSZ9031RNXCA
KSZ9031RNXIC
KSZ9031RNXIA
KSZ9031RNXCC-TR
KSZ9031RNXCA-TR
KSZ9031RNXIC-TR
KSZ9031RNXIA-TR
KSZ9031RNXIA-TR-JDR
MEC1515H-D0-I/NB
USB7206/KDX
USB7216/KDX
USB7252/KDX
USB7206-I/KDX
USB7206T/KDX
USB7216T/KDX
USB7252T/KDX
USB7216T/KDXD01
USB7206T/KDXD01
USB7206T-I/KDX

Pre and Post Change Summary

CCB#: 4568

PCN#: KSRA-23NSZE057

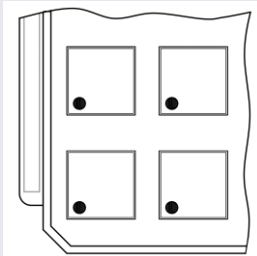
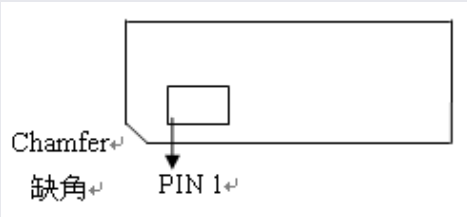


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Pre and Post Change Summary – 48L VQFN (Tray)

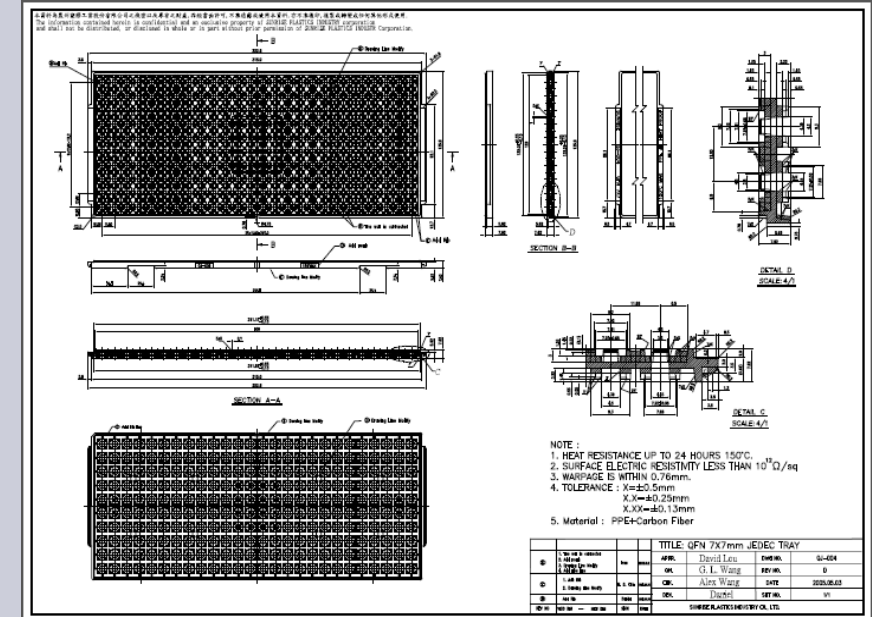
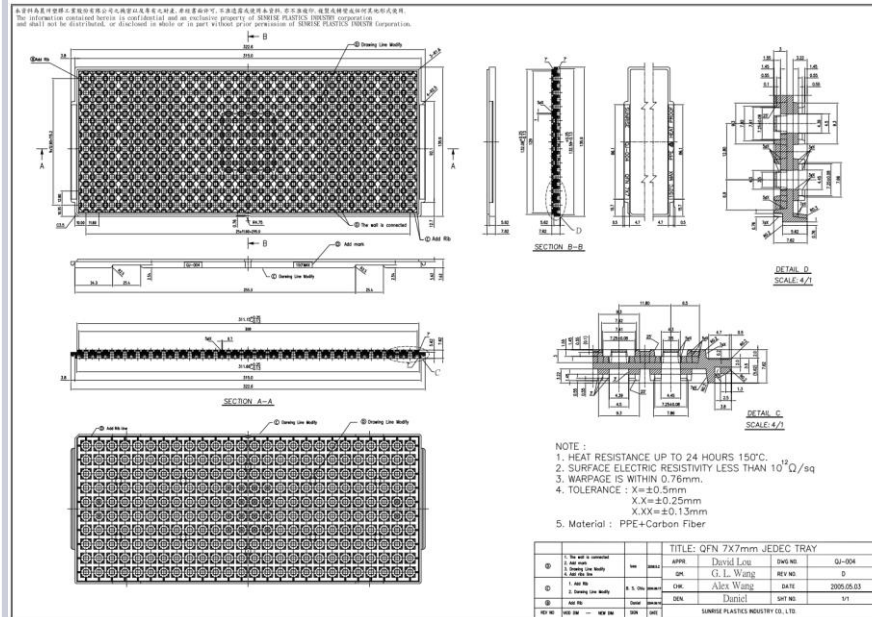
	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Final Test Location	Microchip Technology Thailand (HQ) / MTAI	Sigurd (Hukuo) – Taiwan (TEST) / SIGH
MSL Classification	MSL 3	MSL 3
Base Quantity Multiple (BQM)	260 units per tray 2600 per bundle (10+1 cover tray)	260 units per tray 2600 per bundle (10+1 cover tray)
Pin 1 Orientation	 <p>Chamfer Side</p>	 <p>Chamfer Side</p>

Pre and Post Change Summary – 48L VQFN (Tray)

PRE CHANGE (MTAI)

POST CHANGE (SIGN)

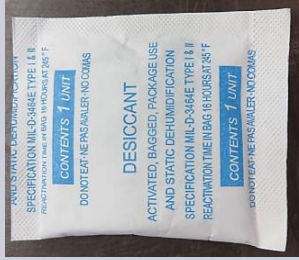

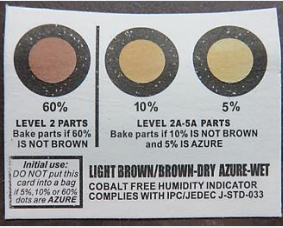



Tray






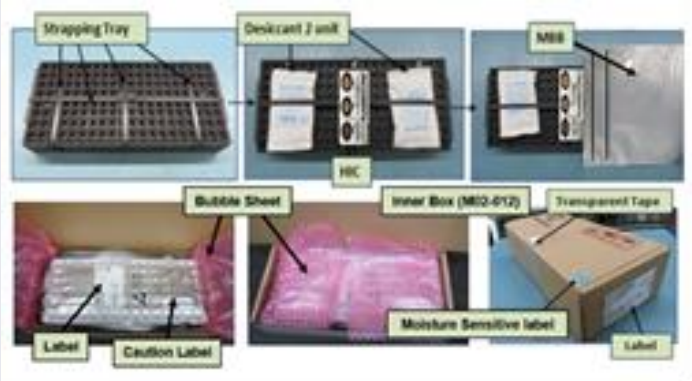

Tray Color	Pocket per Tray	Row	Column
Black	260	10	26

Tray Color	Pocket per Tray	Row	Column
Black	260	10	26

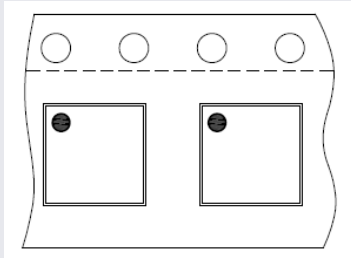
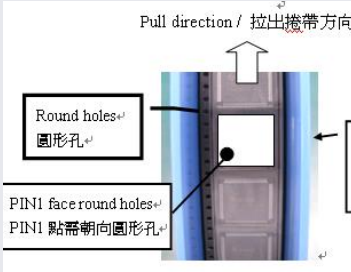
Pre and Post Change Summary – 48L VQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Desiccant		
HIC		
Boxes (inner box)		

Pre and Post Change Summary – 48L VQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Moisture Barrier Bag (MBB)		 
Fill (if applicable)		

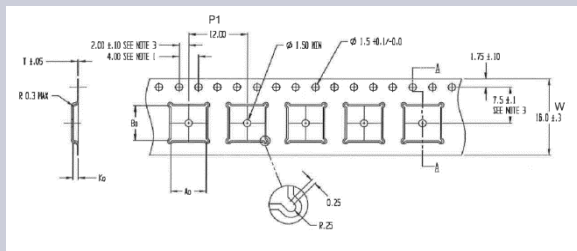
Pre and Post Change Summary – 48L VQFN (Tape and Reel)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Final Test Location	Microchip Technology Thailand (HQ) / MTAI	Sigurd (Hukuo) – Taiwan (TEST) / SIGH
MSL Classification	MSL 3	MSL 3
Base Quantity Multiple (BQM)	1000 per reel	1000 per reel
Pin 1 Orientation	 <p>Quadrant 1</p>	 <p>Quadrant 1</p>

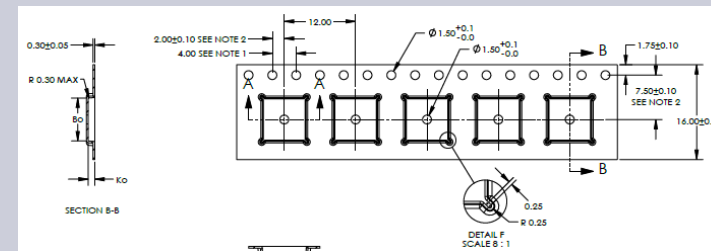
Pre and Post Change Summary – 48L VQFN (Tape and Reel)

PRE CHANGE (MTAI) POST CHANGE (SIGH)

Carrier Tape

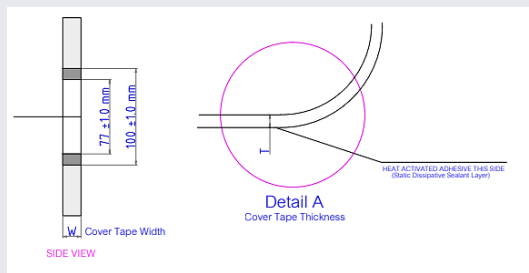


Color	W	P1	A0	B0	K0	Thickness
Black	16+/-0.3 mm	12.00 +/- 0.1 mm	7.25 +/- 0.1 mm	7.25 +/- 0.1 mm	1.10 +/- 0.1 mm	0.30 +/- 0.05 mm

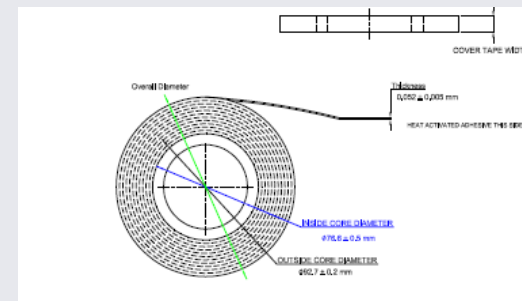


Color	W	P1	A0	B0	K0	Thickness
Black	16+/-0.3 mm	12.00 +/- 0.1 mm	7.25 +/- 0.1 mm	7.25 +/- 0.1 mm	1.10 +/- 0.1 mm	0.30 +/- 0.05 mm

Cover Tape

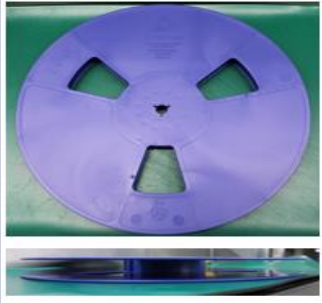



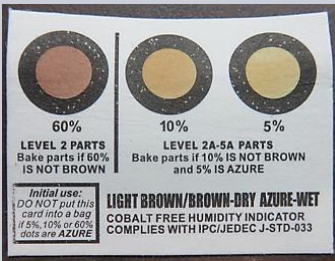



Cover tape color	Width	Thickness
Clear	13.3+/-0.1 mm	0.052 +/- 0.010 mm








Cover tape color	Width	Thickness
Clear	13.3+/-0.1 mm	0.052+/- 0.005 mm

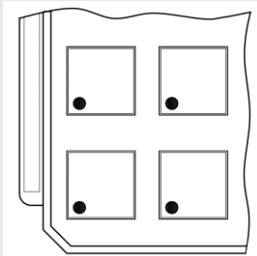
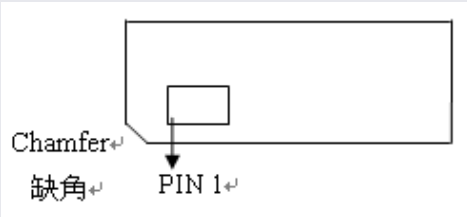
Pre and Post Change Summary – 48L VQFN (Tape and Reel)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)																			
Plastic Reel																					
	<table border="1"> <thead> <tr> <th>Reel Color</th> <th>Reel diameter (mm)</th> <th>Hub (mm)</th> <th>W1(mm)</th> <th>W2 (mm)</th> </tr> </thead> <tbody> <tr> <td>Dark Blue</td> <td>330</td> <td>100</td> <td>16.40</td> <td>22.40</td> </tr> </tbody> </table>	Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)	Dark Blue	330	100	16.40	22.40	<table border="1"> <thead> <tr> <th>Reel Color</th> <th>Reel diameter (mm)</th> <th>Hub (mm)</th> <th>W1(mm)</th> <th>W2 (mm)</th> </tr> </thead> <tbody> <tr> <td>Blue</td> <td>330</td> <td>100</td> <td>16.80</td> <td>22.20</td> </tr> </tbody> </table>	Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)	Blue	330	100	16.80
Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)																	
Dark Blue	330	100	16.40	22.40																	
Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)																	
Blue	330	100	16.80	22.20																	
Desiccant																					
HIC																					

Pre and Post Change Summary – 48L VQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Boxes		
Moisture Barrier Bag (MBB)		
Fill (if applicable)		

Pre and Post Change Summary – 100L VQFN (Tray)

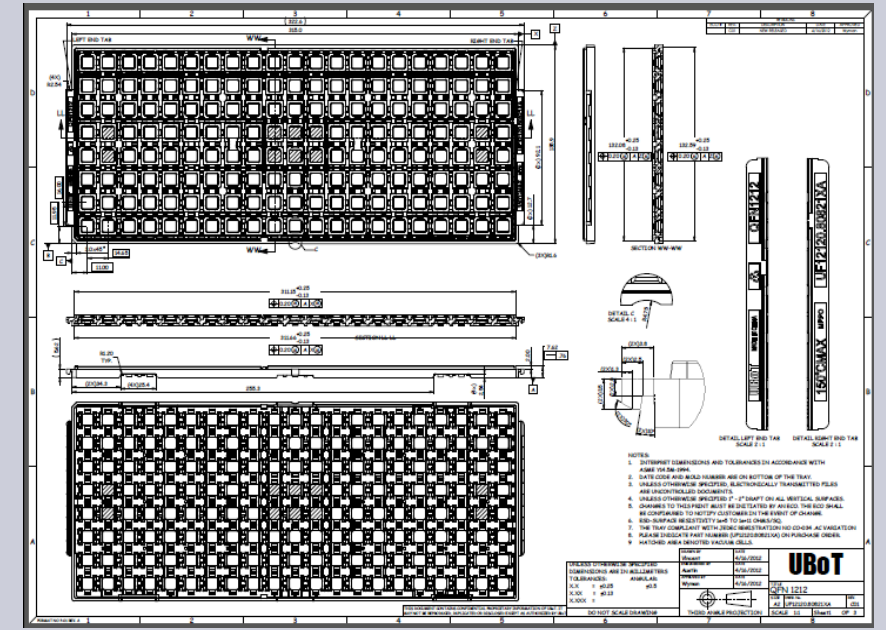
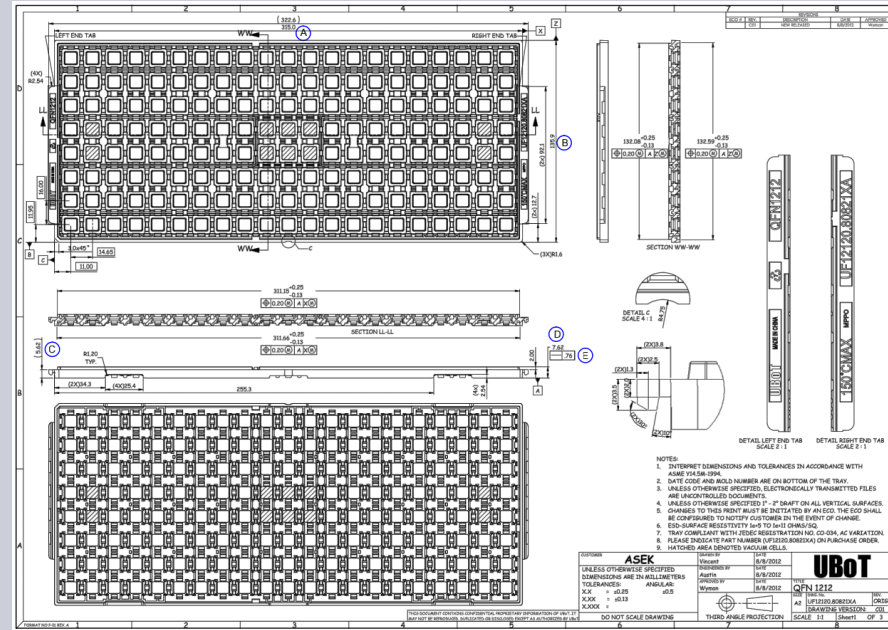
	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Final Test Location	Microchip Technology Thailand (HQ) / MTAI	Sigurd (Hukuo) – Taiwan (TEST) / SIGH
MSL Classification	MSL 3	MSL 3
Base Quantity Multiple (BQM)	168 units per tray 1680 per bundle (10+1 cover tray)	168 units per tray 1680 per bundle (10+1 cover tray)
Pin 1 Orientation	 <p>Chamfer Side</p>	 <p>Chamfer Side</p>

Pre and Post Change Summary – 100L VQFN (Tray)

PRE CHANGE (MTAI)

POST CHANGE (SIGH)

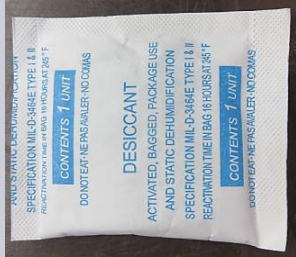





Tray






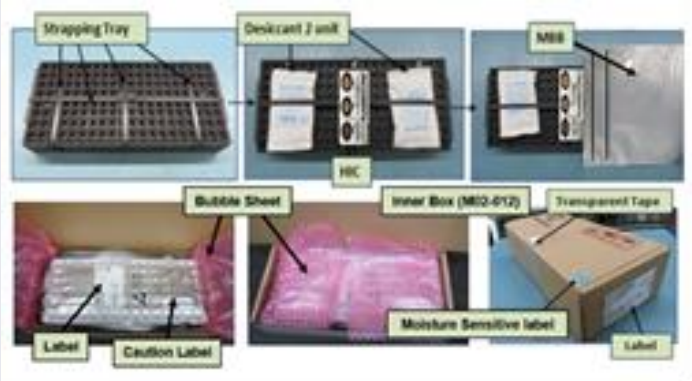

Tray Color	Pocket per Tray	Row	Column
Black	168	8	21

Tray Color	Pocket per Tray	Row	Column
Black	168	8	21

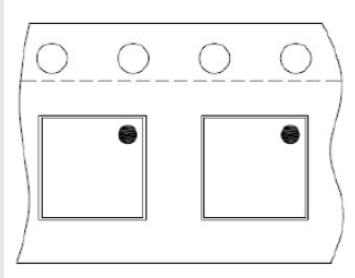
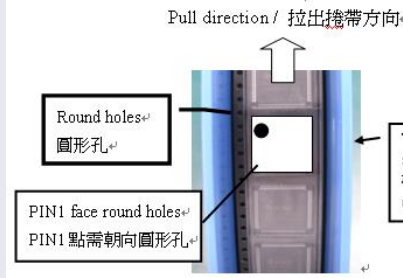
Pre and Post Change Summary – 100L VQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Desiccant		
HIC		
Boxes (inner box)		

Pre and Post Change Summary – 100L VQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Moisture Barrier Bag (MBB)		 
Fill (if applicable)		

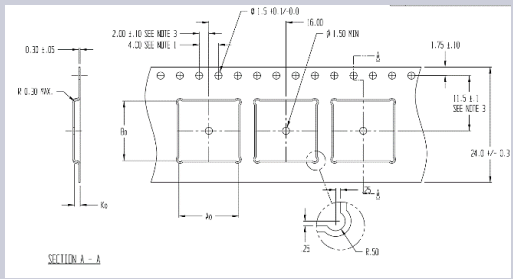
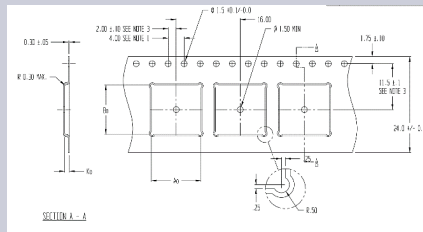
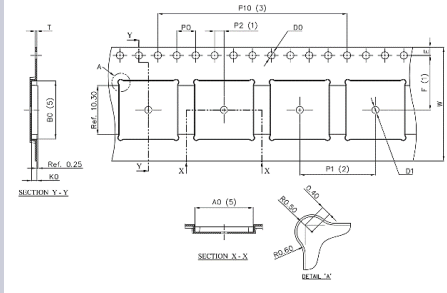
Pre and Post Change Summary – 100L VQFN (Tape and Reel)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Final Test Location	Microchip Technology Thailand (HQ) / MTAI	Sigurd (Hukuo) – Taiwan (TEST) / SIGH
MSL Classification	MSL 3	MSL 3
Base Quantity Multiple (BQM)	2500 per reel	2500 per reel
Pin 1 Orientation	 <p>Quadrant 2</p>	 <p>Quadrant 2</p>

Pre and Post Change Summary – 100L VQFN (Tape and Reel)

PRE CHANGE (MTAI) POST CHANGE (SIGH)

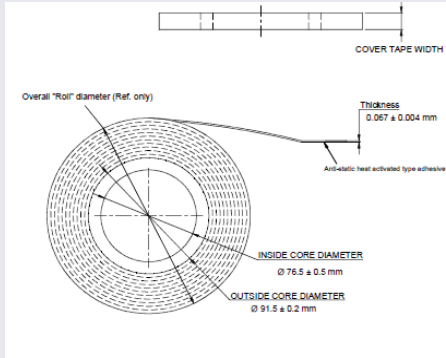
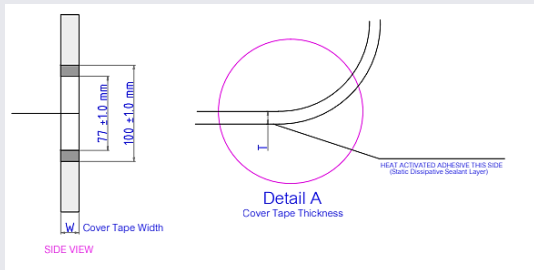
Carrier Tape



Color	W	P1	A0	B0	K0	Thickness
Black	24.00 +/-0.3 mm	16.00 +/-0.1 mm	12.40 +/-0.1 mm	12.40 +/-0.1 mm	1.20 +/-0.1 mm	0.30 +/-0.05 mm

Color	W	P1	A0	B0	K0	Thickness
Black	24.00 +/-0.3 mm	16.00 +/-0.1 mm	12.40 +/-0.1 mm	12.40 +/-0.1 mm	1.20 +/-0.1 mm	0.30 +/-0.05 mm

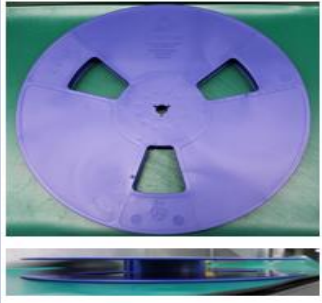



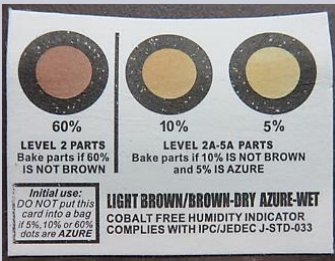

Cover Tape







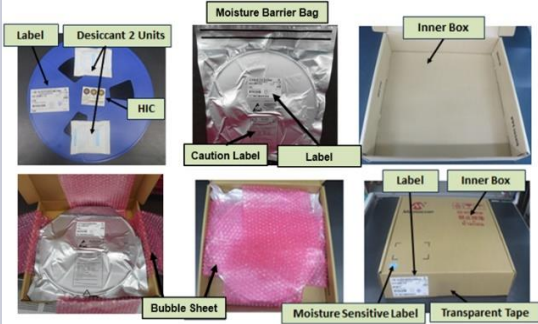

Cover tape color	Width	Thickness
Clear	21.0 +/- 0.1 mm	0.050 +/- 0.010 mm

Cover tape color	Width	Thickness
Clear	21.3 +/- 0.1 mm	0.067 +/- 0.004 mm

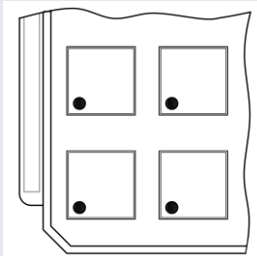
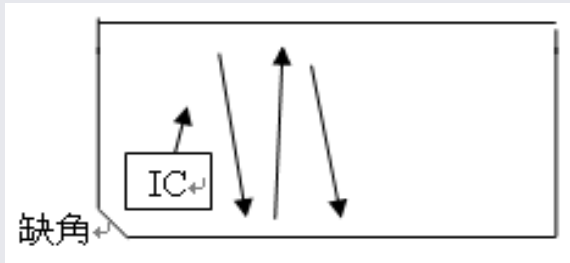
Pre and Post Change Summary – 100L VQFN (Tape and Reel)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)																				
Plastic Reel	 <table border="1"> <thead> <tr> <th>Reel Color</th> <th>Reel diameter (mm)</th> <th>Hub (mm)</th> <th>W1(mm)</th> <th>W2 (mm)</th> </tr> </thead> <tbody> <tr> <td>Dark Blue</td> <td>330</td> <td>100</td> <td>24.40</td> <td>30.40</td> </tr> </tbody> </table>	Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)	Dark Blue	330	100	24.40	30.40	 <table border="1"> <thead> <tr> <th>Reel Color</th> <th>Reel diameter (mm)</th> <th>Hub (mm)</th> <th>W1(mm)</th> <th>W2 (mm)</th> </tr> </thead> <tbody> <tr> <td>Blue</td> <td>330</td> <td>100</td> <td>24.80</td> <td>30.20</td> </tr> </tbody> </table>	Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)	Blue	330	100	24.80	30.20
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Dark Blue	330	100	24.40	30.40																		
Reel Color	Reel diameter (mm)	Hub (mm)	W1(mm)	W2 (mm)																		
Blue	330	100	24.80	30.20																		
Desiccant																						
HIC																						

Pre and Post Change Summary – 100L VQFN (Tape and Reel)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Boxes		
Moisture Barrier Bag (MBB)		
Fill (if applicable)		

Pre and Post Change Summary – 132L DQFN (Tray)

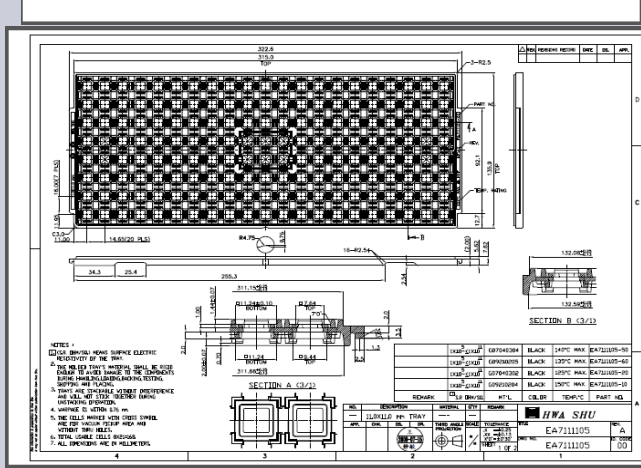
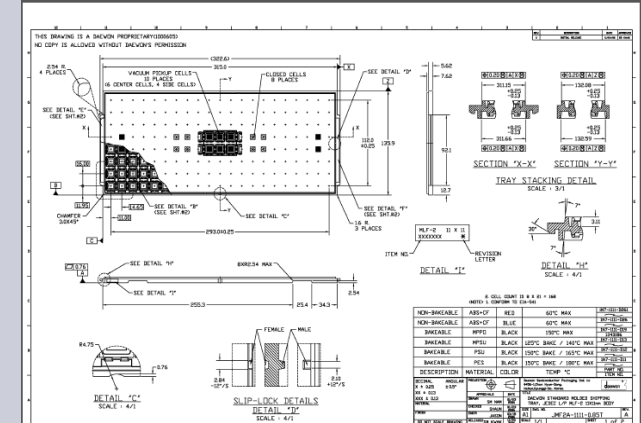
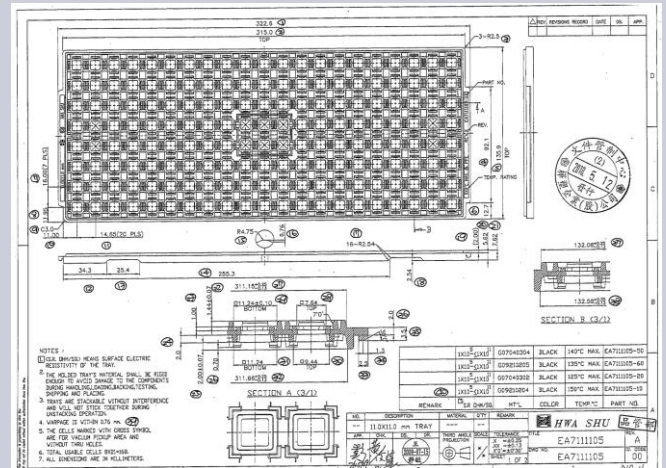
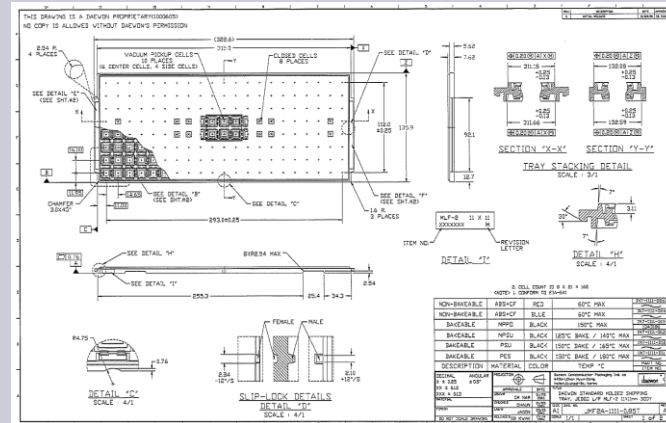
	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Final Test Location	Microchip Technology Thailand (HQ) / MTAI	Sigurd (Hukuo) – Taiwan (TEST) / SIGH
MSL Classification	MSL 3	MSL 3
Base Quantity Multiple (BQM)	168 units per tray 1680 per bundle (10+1 cover tray)	168 units per tray 1680 per bundle (10+1 cover tray)
Pin 1 Orientation	 <p>Chamfer Side</p>	 <p>Chamfer Side</p>

Pre and Post Change Summary – 132L DQFN (Tray)

PRE CHANGE (MTAI)

POST CHANGE (SIGH)

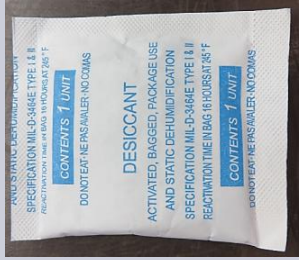

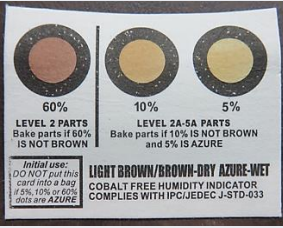



Tray






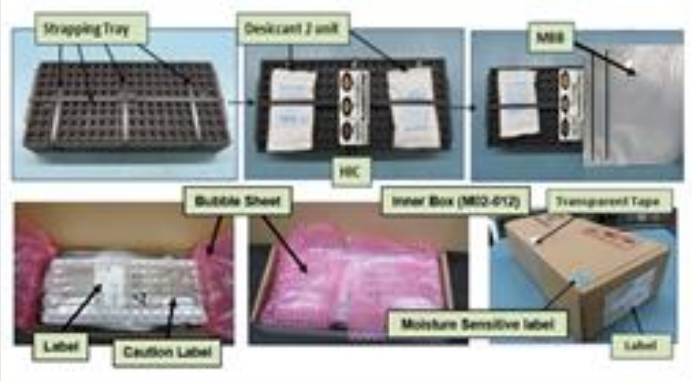

Tray Color	Pocket per Tray	Row	Column
Black	168	8	21

Tray Color	Pocket per Tray	Row	Column
Black	168	8	21

Pre and Post Change Summary – 132L DQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Desiccant		
HIC		
Boxes (inner box)		

Pre and Post Change Summary – 132L DQFN (Tray)

	PRE CHANGE (MTAI)	POST CHANGE (SIGH)
Moisture Barrier Bag (MBB)		 
Fill (if applicable)		



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: KSRA-23NSZE057

**Date:
February 09, 2021**

**Qualification of SIGH as an additional final test site for selected
KSZ9031RNxx, MEC1515H and USB72xx device families available
in 48L VQFN, 100L VQFN and 132L DQFN packages**

Purpose: Qualification of SIGH as an additional final test site for selected KSZ9031RNxx, MEC1515H and USB72xx device families available in 48L VQFN, 100L VQFN and 132L DQFN packages

CCB No.: 4568

Test / Evaluation	Test Conditions / Parameters
50 KGU test comparison	<ul style="list-style-type: none">• Select 50 good sample - test using the original platform and retest using destination platform.
Yield correlation Fresh lot run	<ul style="list-style-type: none">• Lot Validation, Good vs. rejects comparison.• Lot quantity is 3,000 units.• Test using the new test location platform. Then cross correlate with original test location platform.