

### Product Change Notification / CAAN-10CRUJ529

#### Date:

13-Oct-2022

#### **Product Category:**

Ethernet PHYs, USB Hubs

#### PCN Type:

Manufacturing Change

#### **Notification Subject:**

CCB 4568.002 Final Notice: Qualification of SIGH as an additional final test site for selected KSZ9031RNxx, USB7206xx, USB7216xx and USB7252xx device families available in 48L and 100L VQFN (12x12mm and 7x7mm) package

#### Affected CPNs:

CAAN-10CRUJ529\_Affected\_CPN\_10132022.pdf CAAN-10CRUJ529\_Affected\_CPN\_10132022.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 SIGH as an additional final test site for selected KSZ9031RNxx, USB7206xx, USB7216xx and USB7252xx device families available in 48L and 100L VQFN (12x12mm and 7x7mm) package.

#### Pre and Post Change Summary:

For 100L VQFN (12x12mm) package:

		Pre Change	Post Ch	ange		
Fina	al Test Site	Microchip Technology Thailand (HQ)	Microchip Technology Thailand (HQ)	Sigurd (Hukuo) – Taiwan (TEST)		
		(MTAI)	(MTAI)	(SIGH)		
_	Base Quantity Multiple	2500	2500	2500		
Tape and Reel	(BQM)					
	Pin 1 Orientation		Quadrant 2			
		(See attach	ed Pre and Post Com	iparison)		
Ca	Carrier Tape No dimensional changes (See attached Pre and Post Comparison)					
Cc	Cover Tape With minor dimensiona (See attached Pre and Post			U		
Plastic Reel	Dimension	With minor dimensional changes (See attached Pre and Post Comparison)				
	Color	Dark Blue	Dark Blue	Blue		
	Base Quantity Multiple	168	168	168		
	(BQM)					
Tray	Pin 1 Orientation		Chamfer Side			
	Dimension	No	ed Pre and Post Com dimensional changes ed Pre and Post Com	5		
	Color	(000 0000	Black	.pulloony		
D	esiccant	See attach	ed Pre and Post Com	iparison		
	HIC	See attached Pre and Post Comparison				
	Boxes		See attached Pre and Post Comparison			
	Bag(s)	See attached Pre and Post Comparison				
Packing N	1aterial/Method	See attach	ed Pre and Post Com	parison		

For 48L VQFN (7x7mm) package:

		Pre Change	Post Ch	ange		
Final Test Site		Microchip Technology Thailand (HQ)	Microchip Technology Thailand (HQ)	Sigurd (Hukuo) – Taiwan (TEST)		
		(MTAI)	(MTAI)	(SIGH)		
Tape and	Base Quantity Multiple	1000	1000	1000		
Reel	(BQM)					
	Pin 1 Orientation		Quadrant 1			
		(See attach	ed Pre and Post Com	parison)		
Ca	rrier Tape		dimensional changes			
			ed Pre and Post Com			
Co	over Tape		inor dimensional cha ed Pre and Post Com	-		
Plastic Reel	Dimension	With m	With minor dimensional changes (See attached Pre and Post Comparison)			
	Color	Dark Blue	Dark Blue	Blue		
	Base Quantity Multiple	260	260	260		
	(BQM)					
Tray	Pin 1 Orientation	Chamfer Side				
		(See attached Pre and Post Comparison)				
	Dimension		dimensional changes ed Pre and Post Com			
	Color		Black			
D	esiccant	See attach	ed Pre and Post Com	parison		
	HIC	See attached Pre and Post Comparison				
Boxes		See attached Pre and Post Comparison				
	Bag(s)	See attach	ed Pre and Post Com	parison		
Packing N	laterial/Method	See attach	ed Pre and Post Com	parison		

Impacts to Data Sheet:None

#### Change ImpactNone

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

#### Change Implementation Status: In Progress

Estimated First Ship Date:November 7, 2022 (date code: 2246)

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

#### Time Table Summary:

		October 2022			November 2022					
Workweek	40	41	42	43	44	45	46	47	48	49
Qual Report Availability			х							
Final PCN Issue Date			х							
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:**October 13, 2022: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on November 7, 2022.

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

#### **Attachments:**

PCN\_CAAN-10CRUJ529\_Pre and Post Change Summary (1).pdf PCN\_CAAN-10CRUJ529\_Pre and Post Change Summary (2).pdf PCN\_CAAN-10CRUJ529\_Qualification Report.pdf Please contact your local Microchip sales office with questions or concerns regarding this notification.

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If you wish to <u>change your PCN profile, including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.



### QUALIFICATION REPORT SUMMARY RELIABILITY LABORATORY

### PCN #: CAAN-10CRUJ529

Date October 04, 2022

Qualification of SIGH as an additional final test site for MEC1515H-D0-I/NB catalog part number (CPN) available in 132L DQFN (11x11x0.9 mm) package. The qualification of SIGH as an additional final test site for selected KSZ9031RNxx, USB7206xx, USB7216xx and USB7252xx device families available in 48L and 100L VQFN (12x12mm and 7x7mm) package will qualify by similarity (QBS). **Purpose:** Qualification of SIGH as an additional final test site for MEC1515H-D0-I/NB catalog part number (CPN) available in 132L DQFN (11x11x0.9 mm) package. The qualification of SIGH as an additional final test site for selected KSZ9031RNxx, USB7206xx, USB7216xx and USB7252xx device families available in 48L and 100L VQFN (12x12mm and 7x7mm) package will qualify by similarity (QBS).

#### **CCB#:** 4568.002

Test / Evaluation	Test Conditions / Parameters	Results
50 KGU test comparison	Select 50 good sample - test using the original platform and retest using destination platform.	Pass
Yield correlation Fresh lot run	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.	Pass

# CCB 4568.002 Pre and Post Change Summary PCN #:CAAN-10CRUJ529



48L VQFN (7x7mm) package

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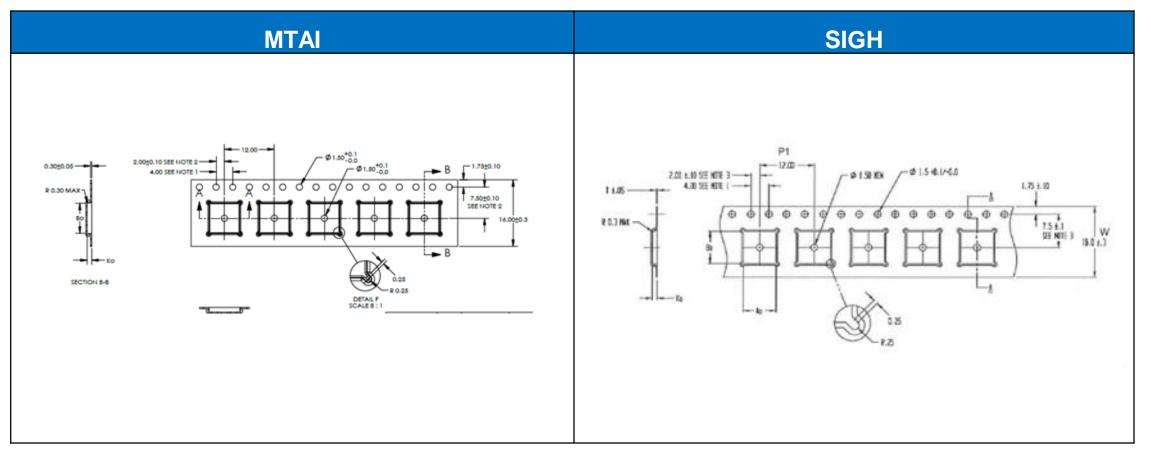


# **Tape and Reel**

	ΜΤΑΙ	SIGH
Base Quantity Multiple (BQM)	1000	1000
Pin 1 orientation	Quadrant 1	Pull direction / 拉出被带方向 Found holes 副形孔 PIN1 點標朝的圓形孔 DIN1 點標朝的圓形孔 DIN1 點標朝的圓形孔

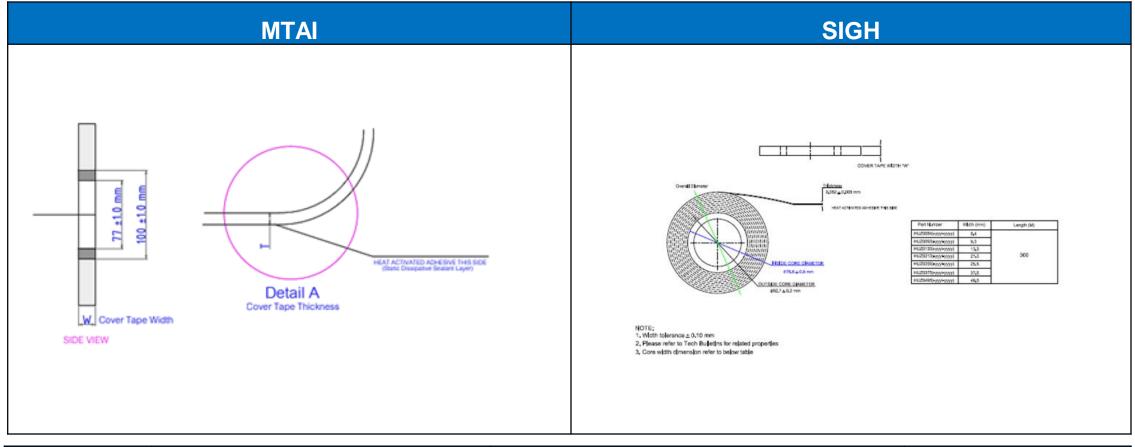


## **Tape and Reel - Carrier Tape**



Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	Thickness (mm.)	Color
MTAI	16.00 +/-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	Black
SIGH	16.00 +/-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	Black
							Mic

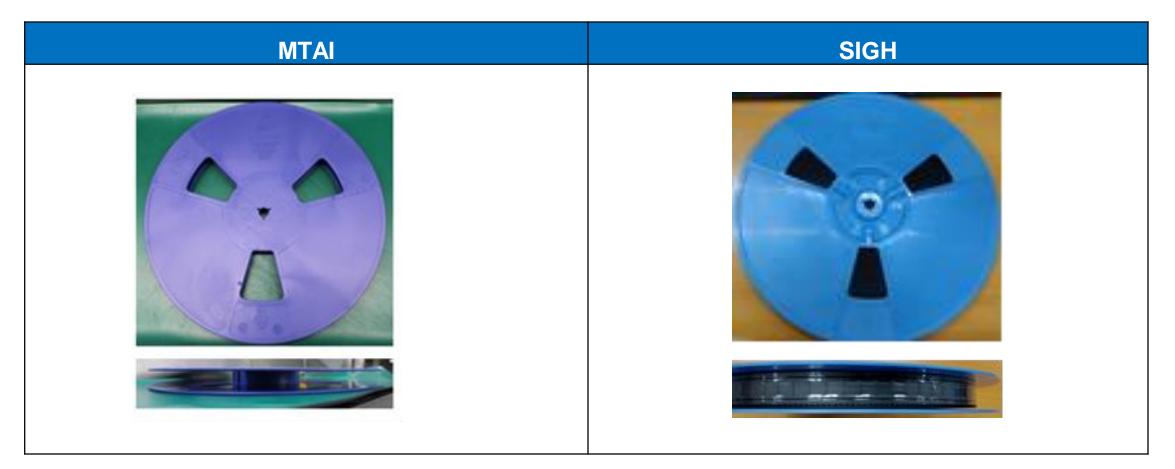
## **Tape and Reel - Cover Tape**



Plant	Width W (mm.)	Thickness T (mm.)	Color
MTAI	13.3 +/-0.1 mm	0.050 +/- 0.010 mm	Clear
SIGH	13.3+/-0.1 mm	0.052+/- 0.005 mm	Clear



# **Plastic Reel**



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	W1	W2 (Max)	Color
MTAI	330mm	100mm	16.40mm	22.40mm	Dark Blue
SIGH	330mm	100mm	16.8mm	22.2mm	Blue

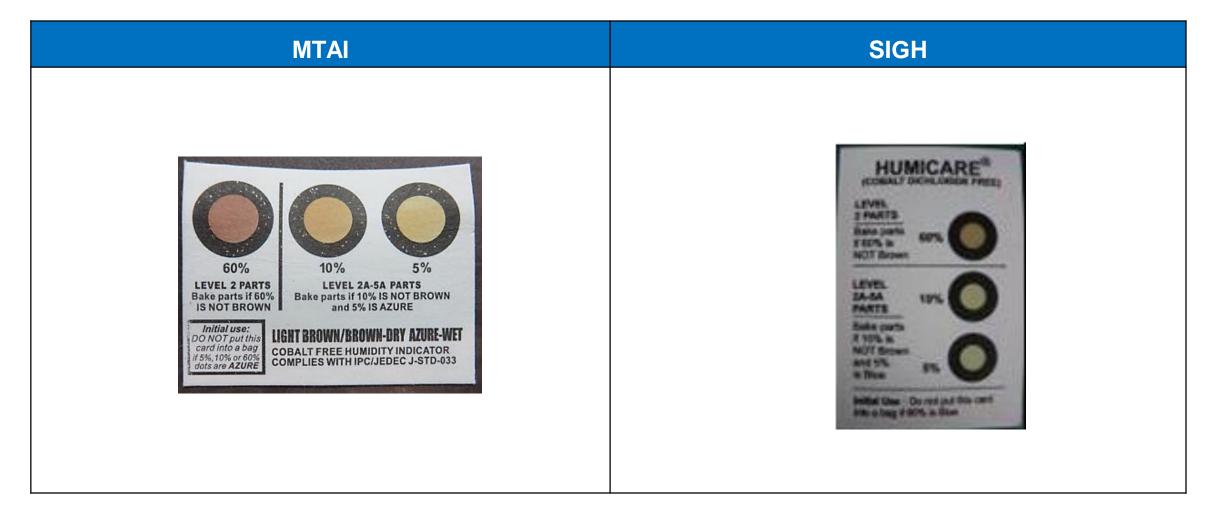


## **Tape and Reel - Desiccant**



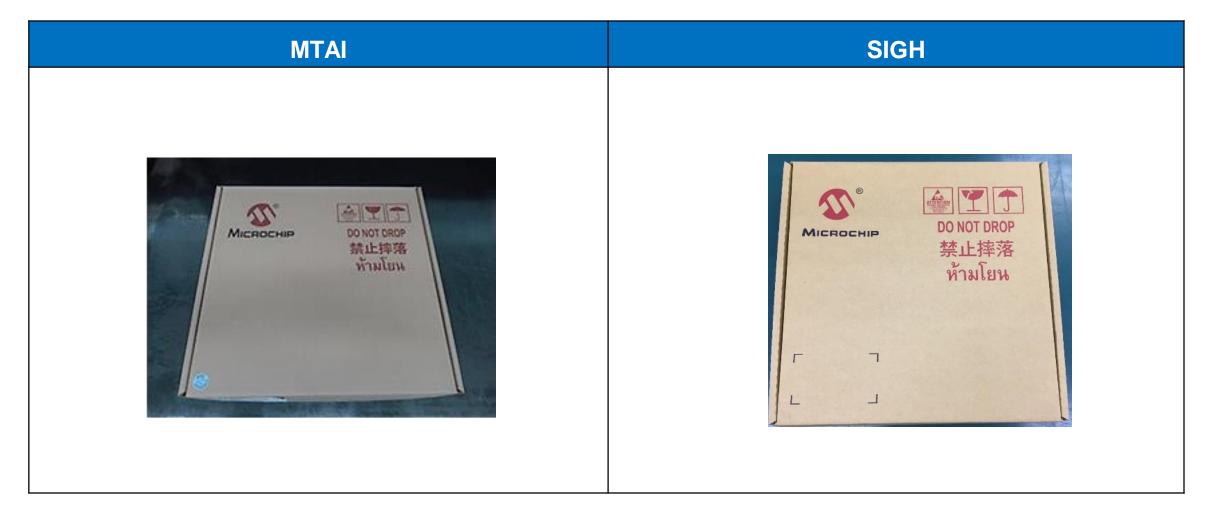


## **Tape and Reel - HIC**





## **Tape and Reel - Boxes**





# Tape and Reel - Bag(s)

### MTAI



### SIGH







# **Tape & Reel - Packing Material/Method**



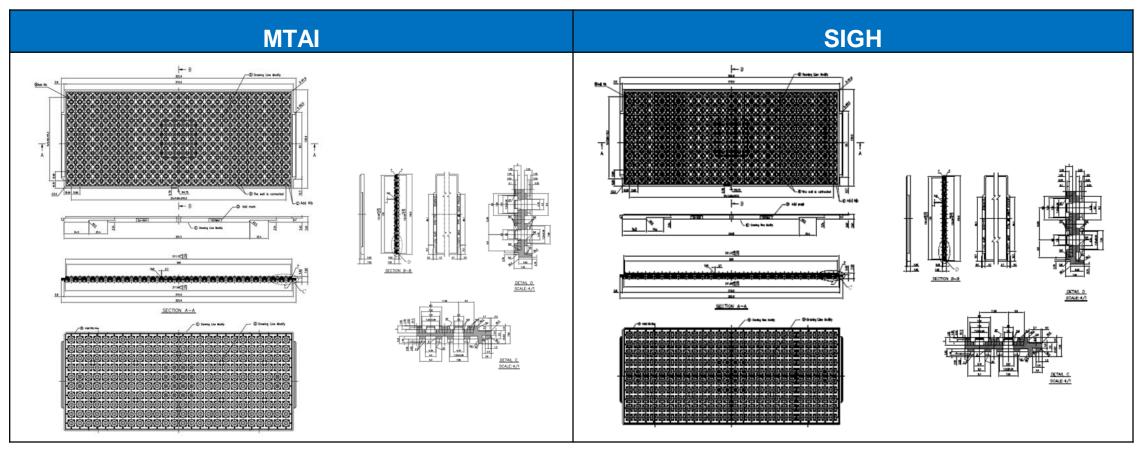




	ΜΤΑΙ	SIGH
Base Quantity Multiple (BQM)	260	260
Pin 1 orientation	Chamfer	' Chamfer+' 缺角+' PIN 1+'



# Tray



Plant	Row	Col	Pocket per Tray	Color
MTAI	10	26	260	Black
SIGH	10	26	260	Black



# **Tray- Desiccant**



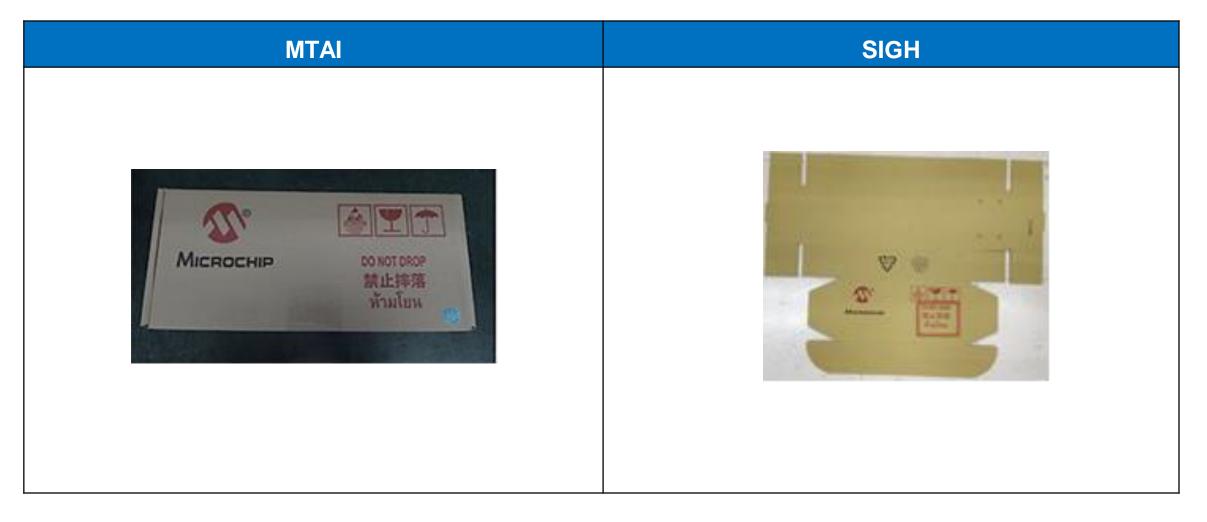


# **Tray- HIC**





# **Tray- Boxes**





# Tray-Bag(s)

### MTAI



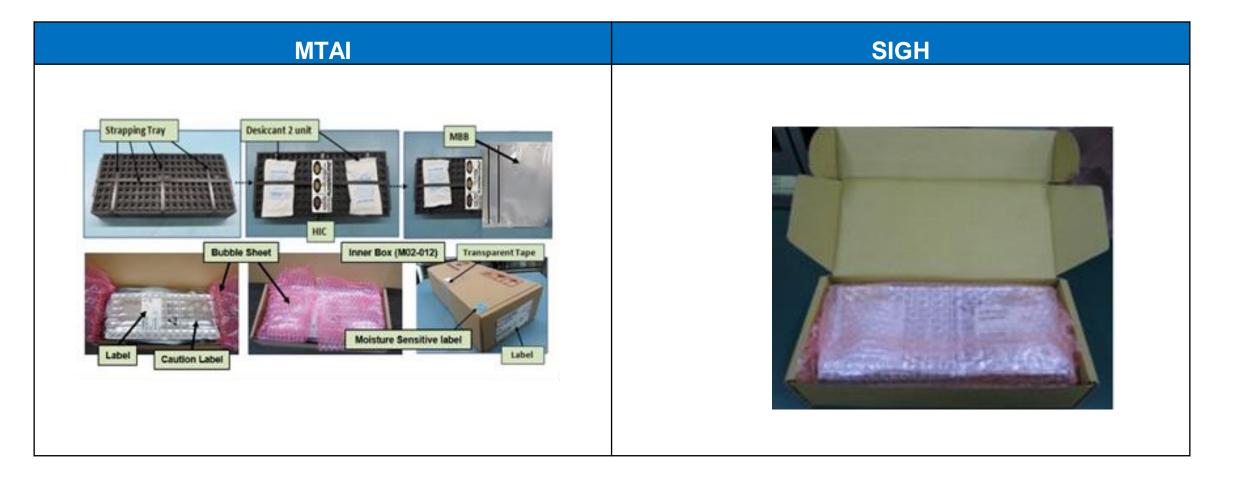






### SIGH

# **Tray - Packing Material/Method**





# CCB 4568.002 Pre and Post Change Summary PCN #:CAAN-10CRUJ529



100L VQFN (12x12mm) package

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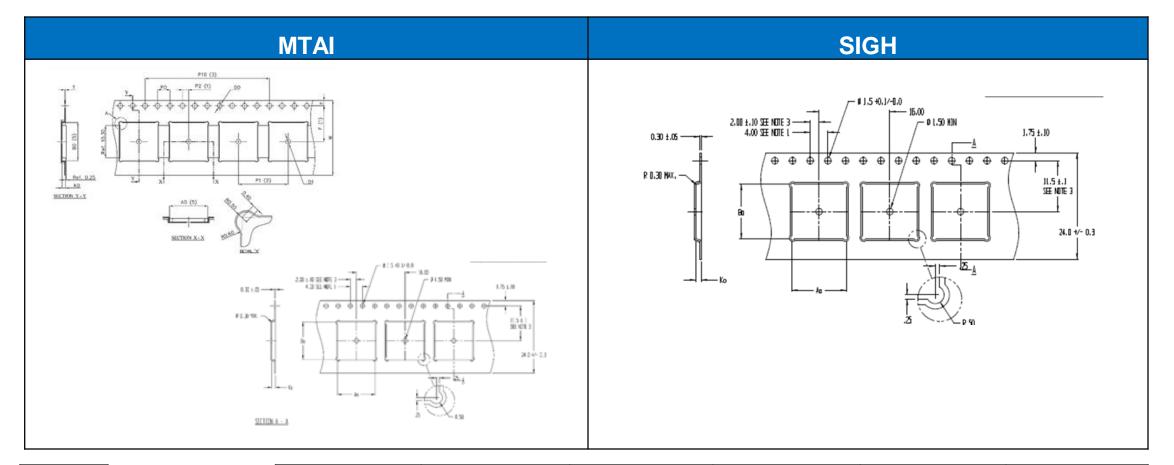


# **Tape and Reel**

	ΜΤΑΙ	SIGH
Base Quantity Multiple (BQM)	2500	2500
Pin 1 orientation	Quadrant 2	Pull direction / 拉出推帶方向 Round holes+ 即N1 face round holes+ PIN1 點爾朝向圖形孔+

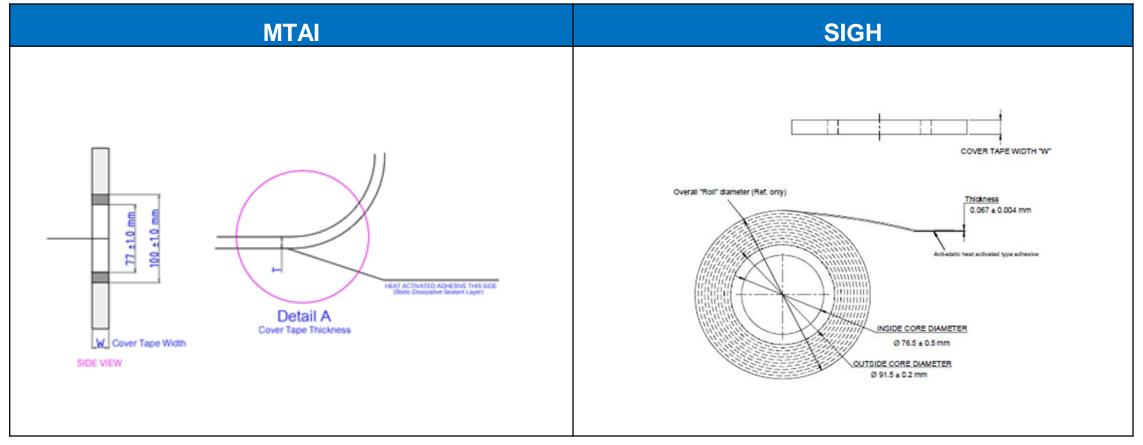


# **Tape and Reel - Carrier Tape**



Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	Thickness (mm.)	Color
MTAI	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	Black
SIGH	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	Black

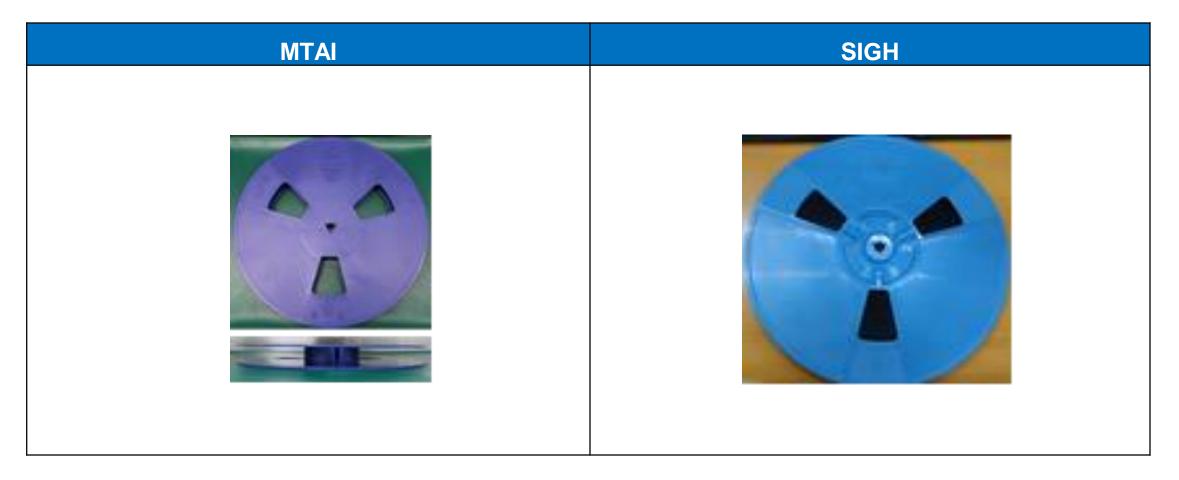
## **Tape and Reel - Cover Tape**



Plant	Width W (mm.)	Thickness T (mm.)	Color
MTAI	21.0+/-0.1 mm	0.050 +/- 0.010 mm	Clear
SIGH	21.3+/-0.1 mm	0.067 +/- 0.004 mm	Clear



# **Plastic Reel**



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	W1	W2 (Max)	Color
ΜΤΑΙ	330mm	100mm	24.40mm	30.40mm	Dark Blue
SIGH	330mm	100mm	24.8mm	30.2mm	Blue

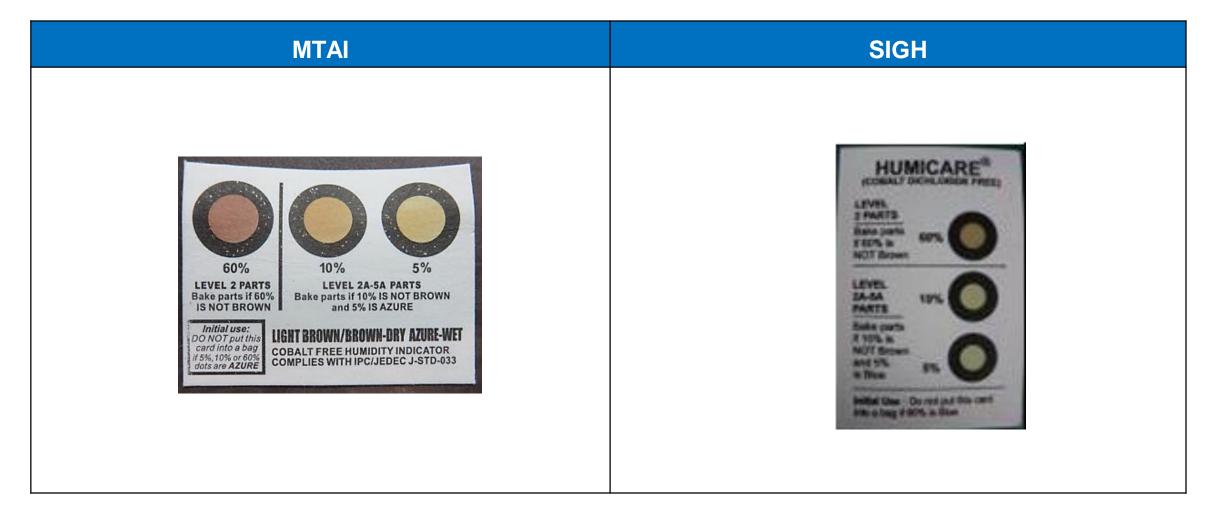


## **Tape and Reel - Desiccant**





## **Tape and Reel - HIC**





## **Tape and Reel - Boxes**





# Tape and Reel - Bag(s)

### MTAI



### SIGH







# **Tape & Reel - Packing Material/Method**



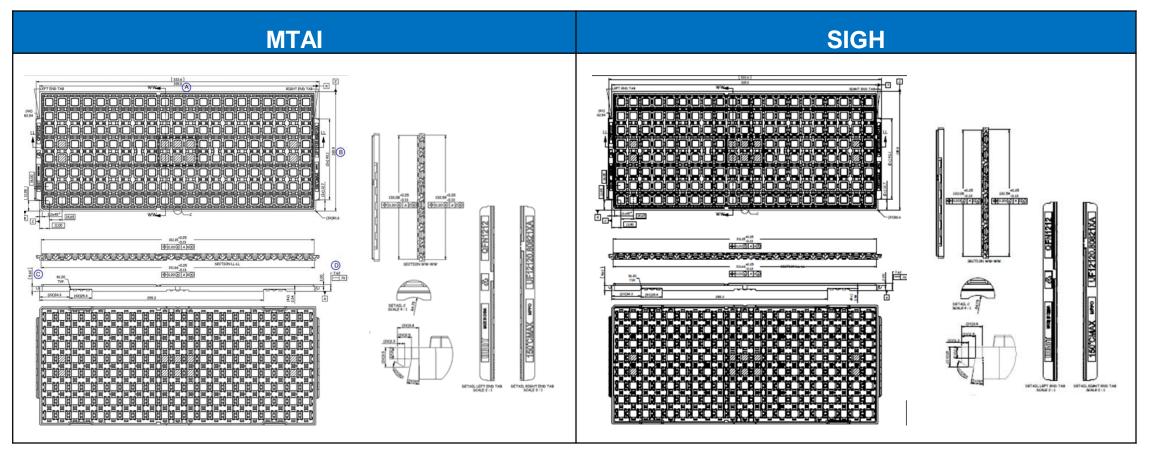




	ΜΤΑΙ	SIGH
Base Quantity Multiple (BQM)	168	168
Pin 1 orientation	Chamfer	' Chamfer+' 缺角+' PIN 1+'



# Tray



Plant	Row	Col	Pocket per Tray	Color
MTAI	8	21	168	Black
SIGH	8	21	168	Black



# **Tray- Desiccant**



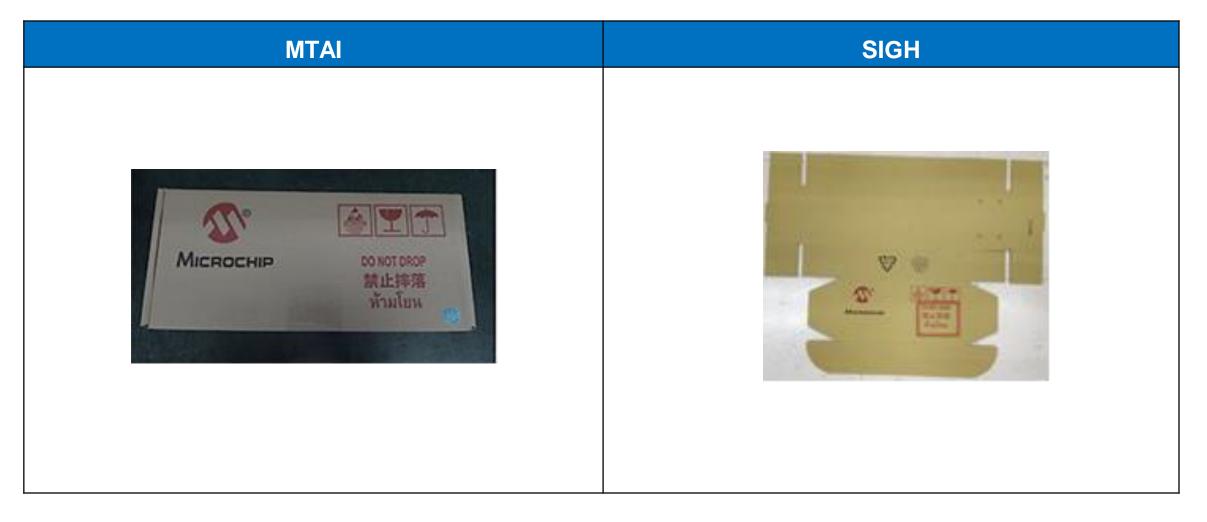


# **Tray- HIC**





# **Tray- Boxes**





# Tray-Bag(s)

### MTAI



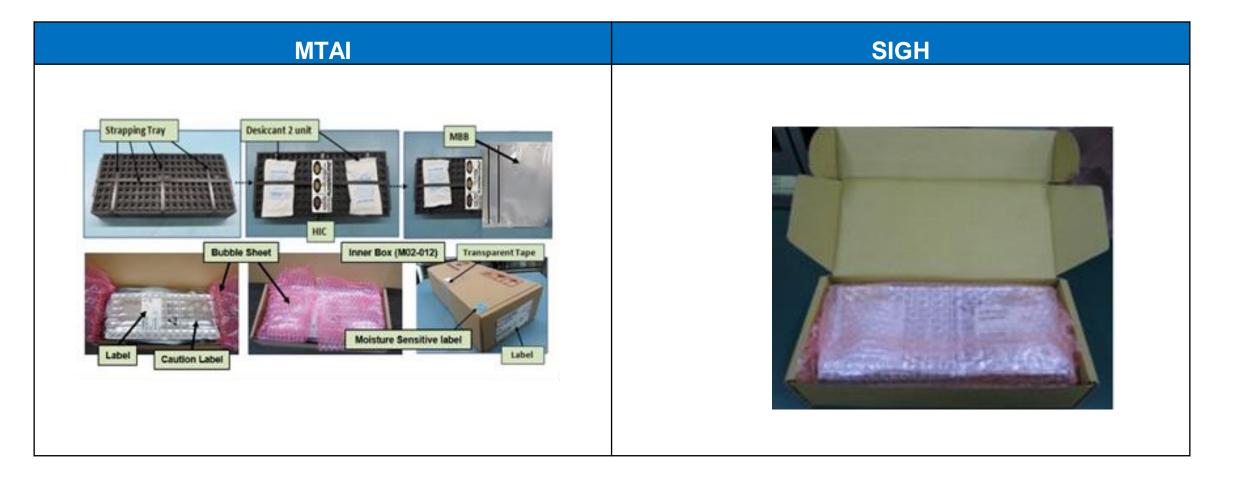






### SIGH

# **Tray - Packing Material/Method**





Affected Catalog Part Numbers(CPN)

KSZ9031RNXCC KSZ9031RNXCA KSZ9031RNXIC KSZ9031RNXIA KSZ9031RNXCC-TR KSZ9031RNXCA-TR KSZ9031RNXIC-TR KSZ9031RNXIA-TR USB7206C/KDX USB7216C/KDX USB7252C/KDX USB7206/KDX USB7216/KDX USB7252/KDX USB7206C-I/KDX USB7216C-I/KDX USB7252C-I/KDX USB7206-I/KDX USB7206CT/KDX USB7216CT/KDX USB7252CT/KDX USB7206T/KDX USB7216T/KDX USB7252T/KDX USB7216T/KDXD01 USB7216CT/KDXD01 USB7206T/KDXD01 USB7206CT/KDXD01 USB7206CT-I/KDX USB7216CT-I/KDX USB7252CT-I/KDX USB7206T-I/KDX