

Product Change Notification	Product Change Notification / CENO-06HQHG649				
Date:	Date:				
08-Jun-2023					
<b>Product Category:</b>					
8-bit Microcontrollers					
PCN Type:					
Manufacturing Change					
<b>Notification Subject:</b>					
	CCB 6331 Initial Notice: Qualification of MTAI as a new final test site for selected ATTINY204-SSxx, ATTINY214-SSxx and ATTINY404-SSxx device families available in 14L SOIC (.150in) package.				
Affected CPNs:					
CENO-06HQHG649_Affected_CPN_06082023.pdf CENO-06HQHG649_Affected_CPN_06082023.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)					
<b>Description of Change:</b> Qualification of MTAI as a new final test site for selected ATTINY204-SSxx, ATTINY214-SSxx and ATTINY404-SSxx device families available in 14L SOIC (.150in) package.					
Pre and Post Change Summary:					
	Pre Change	Post Change			

Final test Site		Microchip Technology Operations (Philippines)	Microchip Technology Thailand
Final to	est Site	Corporation	(HQ)
		(MPHL)	(MTAI)
Base	Tube	56 units/tube	57 units/tube
Quantity Multiple	Tape and Reel	3000 units/reel	3000 units/reel
Din	Tube	See Pre and Post Change comparison.	
Pin Orientation	Tape and Reel	Quadrant 1	Quadrant 1
Carrie	r Tape	No dimensional changes. See Pre and Post Change comparison.	
Cover Tape		Minor dimensional changes. See Pre and Post Change comparison.	
Plastic Reel	Dimension	Minor dimensional changes. See Pre and Post Change comparison.	
	Color	White	Dark Blue
Packing Method		See Pre and Post Change comparison.	

#### Impacts to Data Sheet:None

**Change Impact**None

**Reason for Change:**To improve manufacturability by qualifying MTAI as a new final test site.

**Change Implementation Status:**In Progress

#### Estimated Qualification Completion Date:June 2023

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

#### **Time Table Summary:**

	J	une	2023	3
Workweek	2	2	2	2

	3	4	5	6
Initial PCN Issue	Х			
Date				
Qual Report				Х
Availability				
Final PCN Issue				Х
Date				

Method to Identify Change:Traceability code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Plan.

Revision History: June 8, 2023: Issued initial 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\_CENO-06HQHG649\_Qual Plan.pdf PCN\_CENO-06HQHG649\_Pre and Post Change Summary.pdf

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

#### **Terms and Conditions:**

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>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.

# CCB 6331 Pre and Post Change Summary PCN #: CENO-06HQHG649



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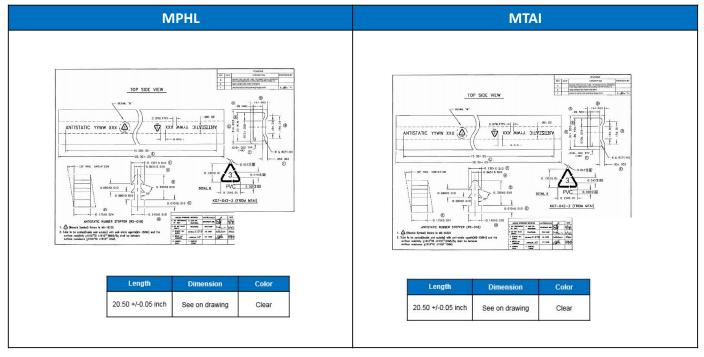


# **Tube – BQM and Pin 1 Orientation**

	MPHL	MTAI
Base Quantity Multiple (BQM)	56 units/tube	57 units/tube
Pin 1 orientation	For SOIC  Pin #1 Direction  TATIC A 16-0561-60 & C YYPW  Lad plug 1  End plug 2	Media Pin1 Side Opposite Side TUBE White Black



## **Tube - Drawing**





## **Tube - Packing Method**





# **Tube - Packing Method**

	MPHL	MTAI
Desiccant	1-unit desiccant  Solupar  Sol	N/A
Carton Box	Length Width Height  560 130 78	Custom Dimension W. K. L. H (cm) Number of Biopheston  M01-205 (C1) 156-64-5 1  M01-205 (C2) 156-64-10 2  M01-202 (C3) 156-64-14 3  M01-202 (C4) 266-53-11 4  M01-203 (C4) 266-53-15 6  M01-203 (C6) 266-53-55 6  M01-203 (C6) 266-53-20 8

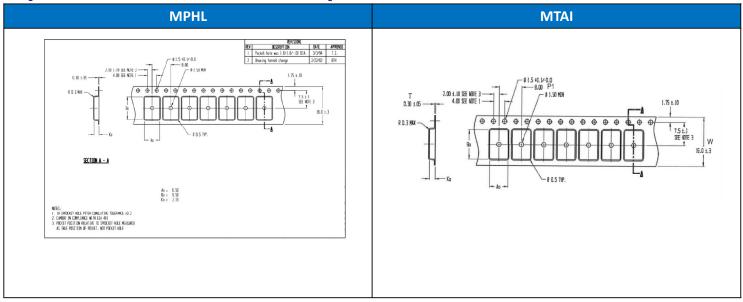


## **Tape and Reel – BQM and Pin-1 Orientation**

		MPHL		MTAI
Base Quantity Multiple (BQM)	3000 units/reel		:	3000 units/reel
	Media	Pin1 Side	Media	Pin1 Side
Pin 1 orientation	T/R	Carrier Tape 2 3 6 Quadrant 1	T/R [	Carrier Tape 1 2 3 6 Quadrant 1



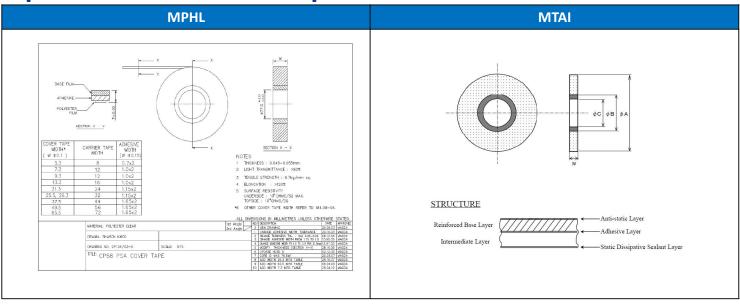
### **Tape and Reel – Carrier Tape**



Plant	W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A0 ±0.1 or Specific	B0 ±0.1 or Specific	K0 ±0.1 or Specific
MPHL	16	8	6.50	9.50	2.10
MTAI	16	8	6.50	9.50	2.10



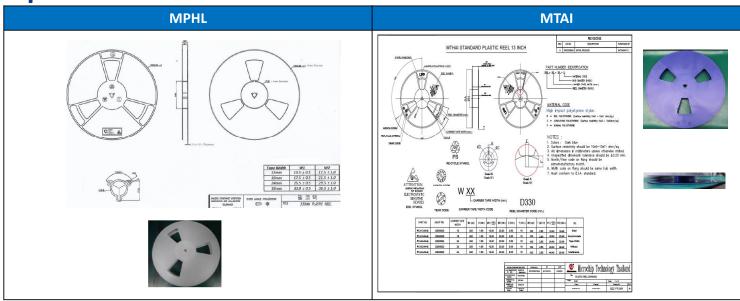
#### **Tape and Reel – Cover Tape**



Plant	Width "W" (mm)	Thickness (mm)
MPHL	13.3 ± 0.1	0.05 ±0.005
MTAI	13.3 ± 0.1	0.050 ±0.010



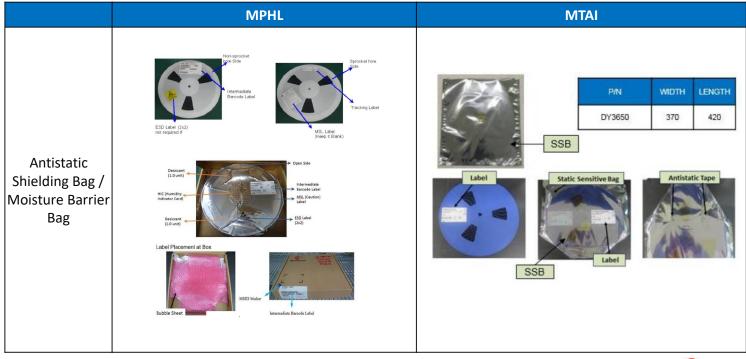
#### Tape and Reel – Plastic Reel



Plant	Diameter	Hub	Color
MPHL	330 mm	101 mm	White
MTAI	330 mm	100 mm	Dark Blue



## **Tape and Reel - Packing Method**





# **Tape and Reel - Packing Method**

	MPHL	MTAI
Desiccant	1-unit desiccant  Solupak	N/A
Carton Box	MICROCHIP CONTROL SH上标次 Washers	11 20 10 10 10 10 10 10 10 10 10 10 10 10 10
		Carton Dimension Total Reel per Box W x L x H (cm)
		M01-011 (TT) 36.5x38x39.5 14
	Length Width Height	M01-013 (B2) 35.5x35.5x4 1
	375 mm 352 mm 53 mm	
	373	M01-014 (B3) 35.5x35.5x6 2



#### QUALIFICATION PLAN SUMMARY RELIABILITY LABORATORY

PCN #: CENO-06HQHG649

Date May 23, 2023

Qualification of MTAI as a new final test site for selected ATTINY204-SSxx, ATTINY214-SSxx and ATTINY404-SSxx device families available in 14L SOIC (.150in) package.

**Purpose:** Qualification of MTAI as a new final test site for selected ATTINY204-SSxx, ATTINY214-SSxx and ATTINY404-SSxx device families available in 14L SOIC (.150in) package.

**CCB#** 6331

Test	Parameters
Datalog/Bin Comparison	Compare test numbers, test names, test sequence bin assignments & pass/fail results Accept if all match or justify the differences
Site by site verification	Verifies the channel map has the correct site assignments and tester/handler communications work correctly
Correlation lot report	Yield at each step and reject analysis between systems. 5K units are tested for each program conversion we perform. Accept on yield match within 0.1%
Unit to unit parametric correlation	A full assembly strip characterized on both systems and graphed vs each other & the data sheet limits
Test stability verification	50 loop test performed with no datalog delays Accept on 0 fails
Parametric test stability verification	Use Real Time Statistics software to create CPK report of all parametric tests

#### CENO-06HQHG649 - CCB 63 ATTINY214-SSxx and ATTINY404-SSxx device families available in 14L SOIC (.150i

#### Affected Catalog Part Numbers(CPN)

ATTINY204-SSF

ATTINY214-SSF

ATTINY404-SSF

ATTINY204-SSN

ATTINY214-SSN

ATTINY404-SSN

ATTINY204-SSNR

ATTINY214-SSNR

ATTINY404-SSNR

ATTINY204-SSFR

ATTINY214-SSFR

ATTINY404-SSFR