



Product Change Notification / RMES-14WQGP950

Date:

15-Sep-2022

Product Category:

Power Management - PWM Controllers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5301 Initial Notice: Qualification of MTAI as an additional final test site for MIC210xYML device family available in 16L VQFN (3x3x1.00mm) package.

Affected CPNs:

[RMES-14WQGP950_Affected_CPN_09152022.pdf](#)
[RMES-14WQGP950_Affected_CPN_09152022.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 MTAI as an additional final test site for MIC210xYML device family available in 16L VQFN (3x3x1.00mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change
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Final Test Site	Unisem (M) Berhad Perak, Malaysia (UNIS)	Unisem (M) Berhad Perak, Malaysia (UNIS)	Microchip Technology Thailand (HQ) (MTAI)
Packing Media	Tape and Reel	Tape and Reel	Tape and Reel
Base Quantity Multiple (BQM)	5000	5000	5000
Pin 1 Orientation	Q1	Q1	Q1
Carrier Tape	With minor dimensional changes. See attached pre and post change comparison		
Cover Tape	With minor dimensional changes. See attached pre and post change comparison		
Reel Color	White	White	Dark Blue
	With minor dimensional changes. See attached pre and post change comparison		
Moisture Barrier Bag	No dimensional changes. See attached pre and post change comparison		
Packing Method	See attached pre and post change comparison		

Impacts to Data Sheet:None

Change Impact:None

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 Qualification Completion Date:December 2022

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:

	September 2022					>	December 2022				
Workweek	36	37	38	39	40		49	50	51	52	53

Initial PCN Issue Date			x								
Qual Report Availability										x	
Final PCN Issue Date										x	

Method to Identify Change:Traceability code

Qualification Plan:

Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:

September 15, 2022: 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_RMES-14WQGP950_Qual Plan.doc.pdf](#)

[PCN_RMES-14WQGP950_Pre and Post Change Summary.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.



**QUALIFICATION PLAN SUMMARY
RELIABILITY LABORATORY**

PCN #: RMES-14WQGP950

**Date:
September 12, 2022**

**Qualification of MTAI as an additional final test site for
MIC210xYML device family available in 16L VQFN
(3x3x1.00mm) package.**



Purpose **Qualification of MTAI as an additional final test site for MIC210xYML device family available in 16L VQFN (3x3x1.00mm) package.**

CCB No. **5301**

Test / Evaluation	Test Condition / Parameters
Correlation Plan	<ul style="list-style-type: none">33 correlation units of MIC2104YML-TR to be tested at UNIS and send to MTAI for parametric correlation of ATE measured data sheet parameters.
	<ul style="list-style-type: none">3,000 untested units from each package size for yield and bin-to-bin comparison (UNIS to MTAI).
	<ul style="list-style-type: none">Test flow: Final Test Room 100% -> QA Sample Room.

Affected Catalog Part Numbers (CPN)

MIC2101YML-TR

MIC2102YML-TR

MIC2103YML-TR

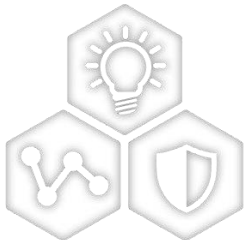
MIC2104YML-TR

CCB # 5301

Pre and Post change comparison
PCN #: RMES-14WQGP950



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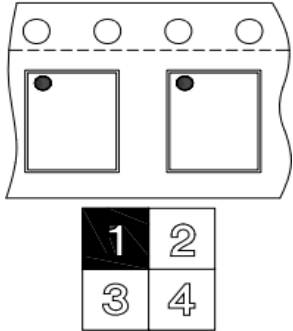
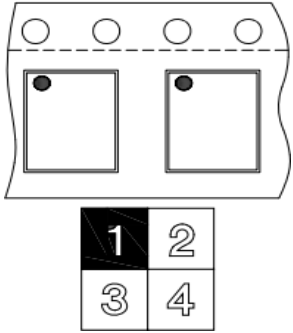


SMART | CONNECTED | SECURE

Pre and Post Change Summary - Base Quantity Multiple (BQM) per reel

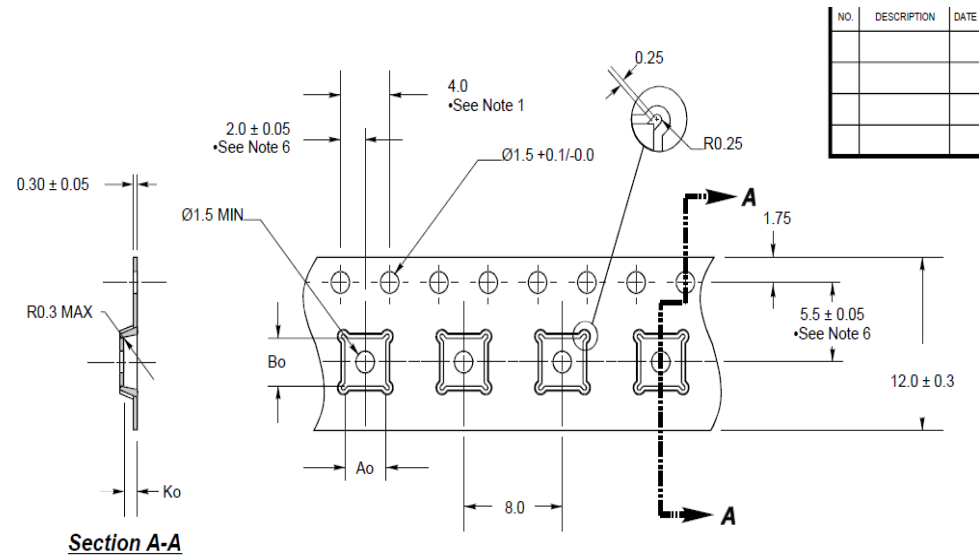
UNIS	MTAI
Units per reel: 5000	Units per reel: 5000

Pre and Post Change Summary – Pin 1 Orientation

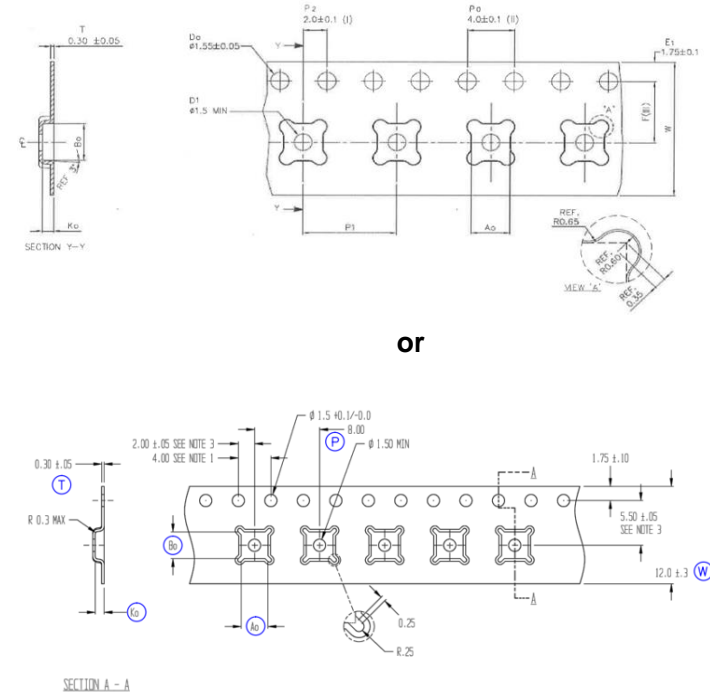
UNIS	MTAI
<div data-bbox="537 405 828 733"></div> <p data-bbox="537 891 828 948">Quadrant 1</p>	<div data-bbox="1717 419 2007 748"></div> <p data-bbox="1717 891 2007 948">Quadrant 1</p>

Pre and Post Change Summary - Carrier Tape

UNIS



MTAI

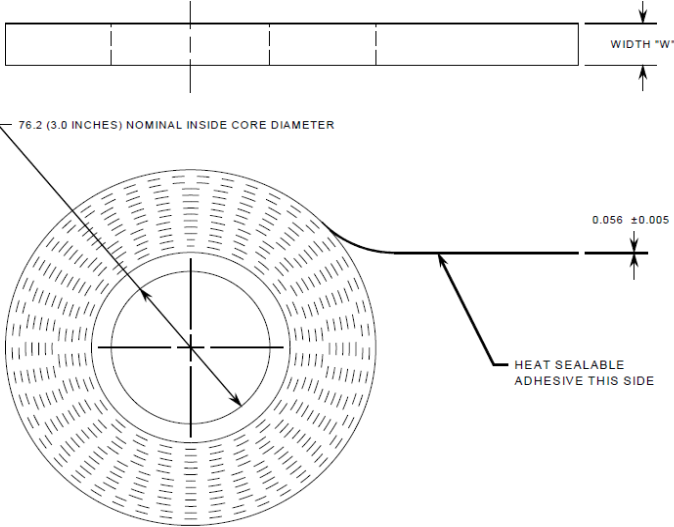


or

Plant	W (mm.) ± 0.3 or Specific	P (mm.) ± 0.1 or Specific	$A_0 \pm 0.1$ or Specific	$B_0 \pm 0.1$ or Specific	$K_0 \pm 0.1$ or Specific
UNIS	12mm $+0.3$	8.00mm	3.30mm	3.30mm	1.10mm
MTAI	12mm $+0.3$	8.00mm	3.30mm	3.30mm	1.10mm or 1.00mm

Pre and Post Change Summary - Cover Tape

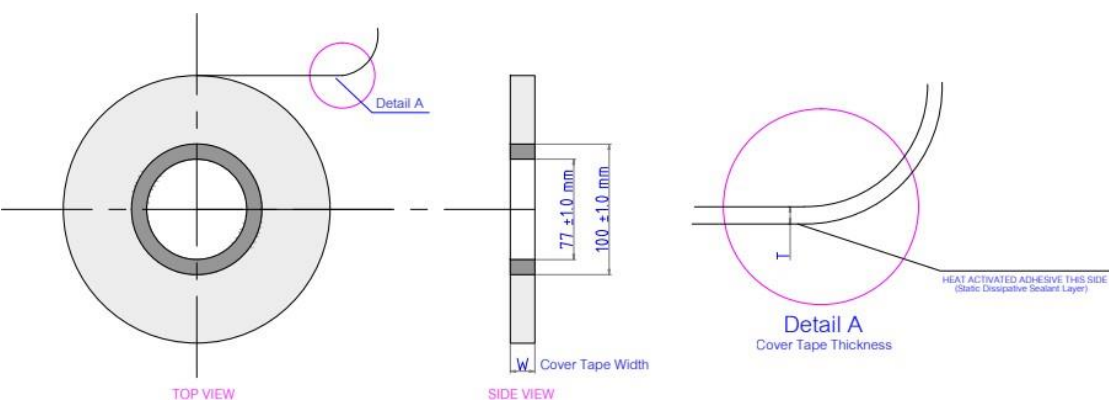
UNIS



2	SEE A1111-93-2 REV. 2		
3	R10075	4/2/98	T.O
4	R10075	2/24/99	T.O
5	R10134	3/11/99	T.O

PART NO.	WIDTH "W"
AA05305NP	5.3±0.1mm
AA05405NP	5.4±0.1mm
AA09205NP	9.2±0.1mm
AA09505NP	9.5±0.1mm
AA13105NP	13.1±0.1mm
AA13305NP	13.3±0.1mm
AA13405NP	13.4±0.1mm
AA21005NP	21.0±0.1mm
AA21305NP	21.3±0.1mm
AA25505NP	25.5±0.1mm
AA37505NP	37.5±0.1mm
AA49505NP	49.5±0.1mm
AA65505NP	65.5±0.15mm
AA81505NP	81.5±0.15mm
AA97505NP	97.5±0.20mm
AA11355NP	113.5±0.20mm
AA12955NP	129.5±0.25mm
AA14555NP	145.5±0.25mm
AA16155NP	161.5±0.30mm
AA17755NP	177.5±0.30mm
AA19355NP	193.5±0.30mm

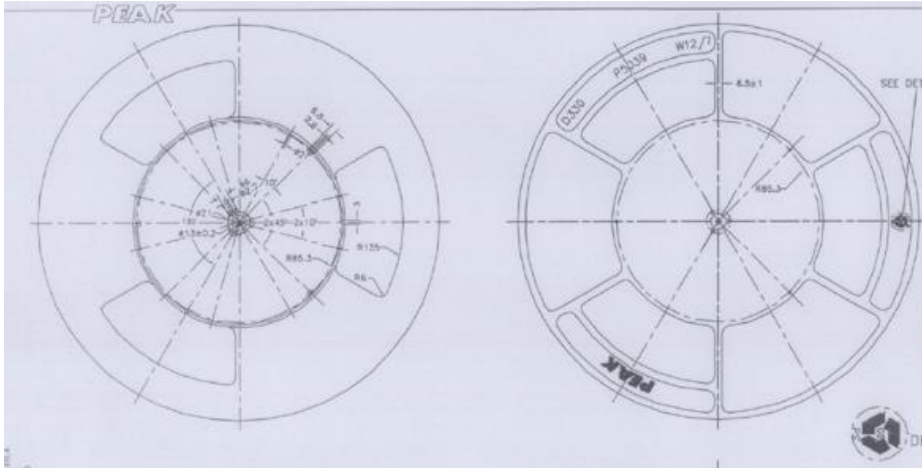
MTAI



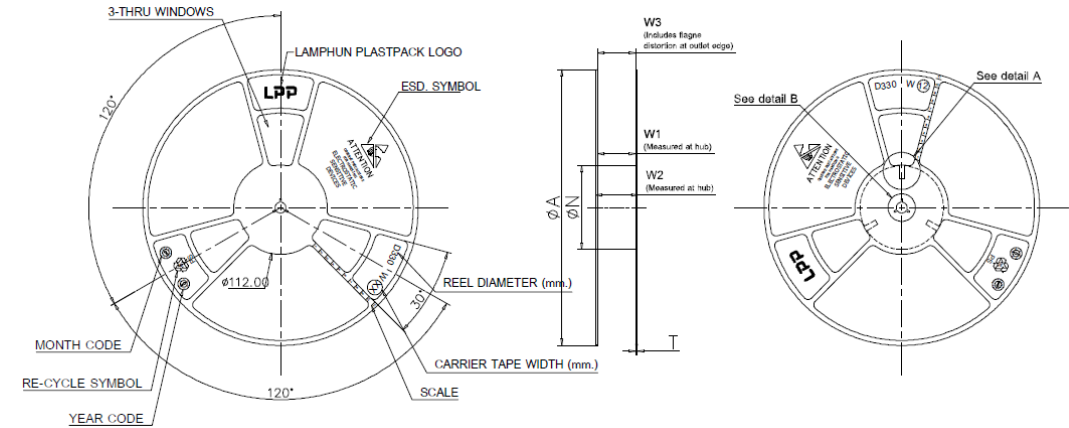
Plant	Cover Tape Width	Thickness	Color	Sealing mythology
UNIS	9.2mm	0.056mm	Clear	Heat Seal
MTAI	9.05+0.05/-0.15mm	0.050 ± 0.010mm	Clear	Heat Seal

Pre and Post Change Summary - Plastic Reel

UNIS



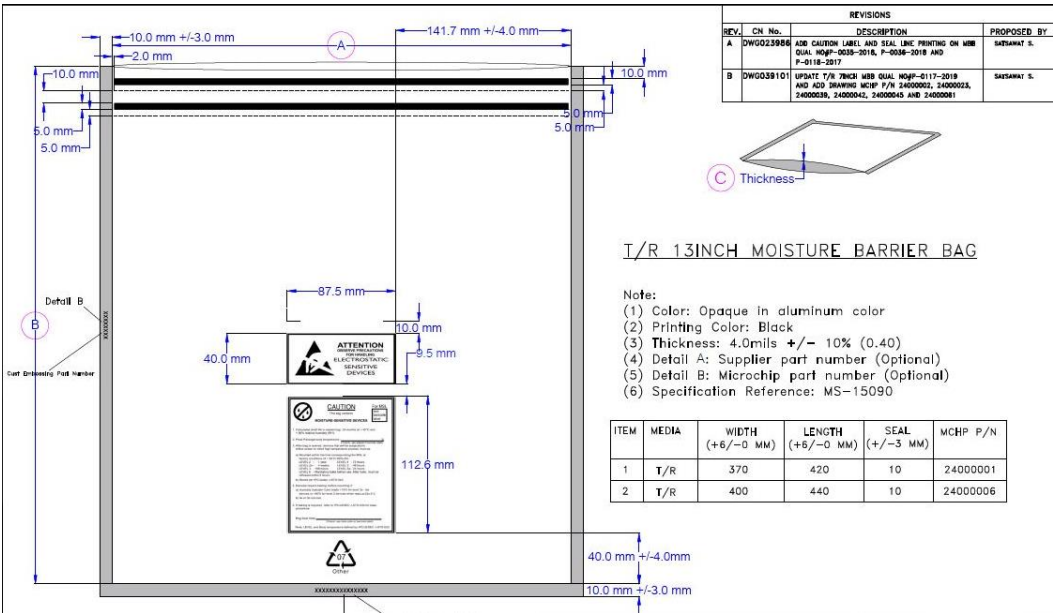
MTAI



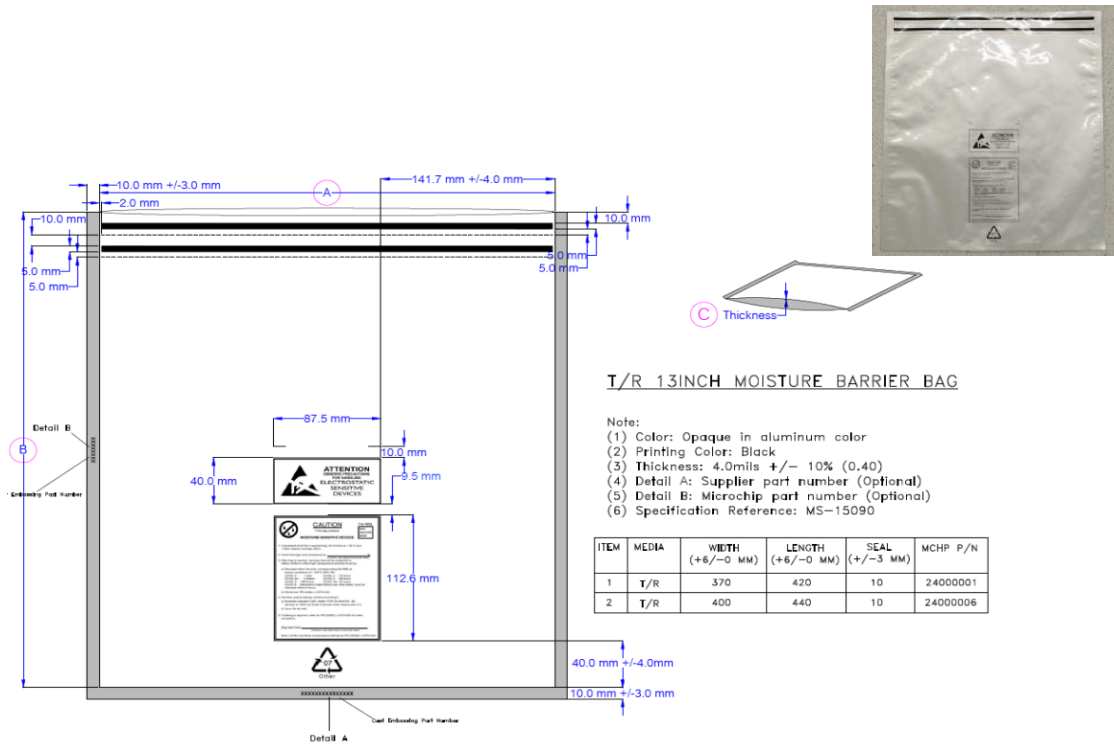
Plant	Reel diameter	Reel Hub Size (mm)	Reel Width Max (mm)	Reel Color
UNIS	330 +4.0/-0.25	177 ±2.0	18.40	White
MTAI	330 +/- 2.0	100 ±2.0	18.40	Dark Blue

Pre and Post Change Summary – Moisture Barrier Bag

UNIS



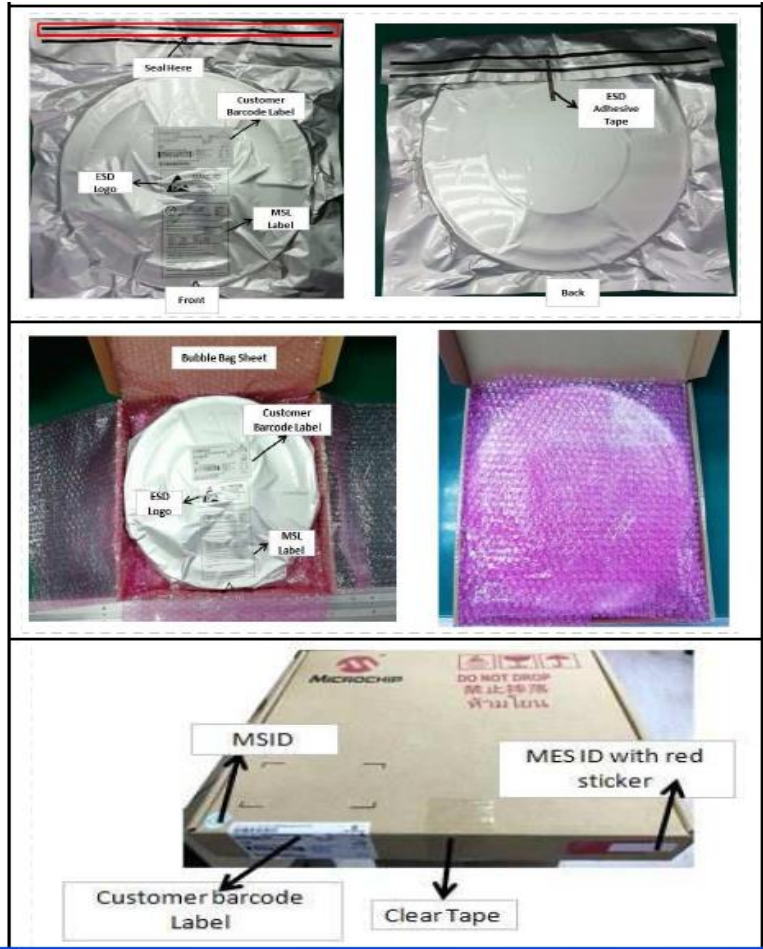
MTAI



Plant	Length (Inch)	Width (Inch)	Thickness (Mils)
UNIS	16.53	14.56	4
MTAI	16.53	14.56	4

Pre and Post Change Summary – Packing Method

UNIS



MTAI

