

#### **Product Change Notification: MFOL-14IYNS822**

Date:

21-Jul-2025

#### **Product Category:**

8-Bit Microcontrollers

#### **Notification Subject:**

CCB 7234 Final Notice: Qualification of MTAI as an additional final test site for selected ATMEGA3250, ATMEGA3250P, ATMEGA3290, ATMEGA3290P, ATMEGA6450, and ATMEGA6490 device families available in 100L TQFP (14x14x1mm) package.

#### **Affected CPNs:**

MFOL-14IYNS822\_Affected\_CPN\_07212025.pdf MFOL-14IYNS822\_Affected\_CPN\_07212025.csv

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 MTAI as an additional final test site for selected ATMEGA3250, ATMEGA3250P, ATMEGA3290, ATMEGA3290P, ATMEGA6450, and ATMEGA6490 device families available in 100L TQFP (14x14x1mm) package.

#### **Pre and Post Summary Changes:**

		Pre Change	Post Change	
Final	l Test Site	Orient Semiconductor Electronics, Ltd (OSE)	Orient Semiconductor Electronics, Ltd (OSE)	Microchip Technology Thailand (HQ) (MTAI)
т/р	Pin 1 Orientation	No change.		
T/R	BQM	No change.		

	Carrier Tape	No change.
	Cover Tape	With minor dimensional change. See Pre and Post summary for comparison.
	Reel	With dimensional change. See Pre and Post change for comparison.
Tuest	Pin 1 Orientation	No change.
Tray	BQM	No change.
Packing Method		See Pre and Post change summary for comparison.

Impacts to Datasheet: None

**Change Impact:** None

Reason for Change: To improve manufacturability by qualifying MTAI as an additional final test site.

**Change Implementation Status:** In Progress

Estimated First Ship Date: 26 August 2025 (date code: 2535)

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

#### **Timetable Summary:**

	Ma	ırch	202	5		>	Jul	y 20	25			Au	gust	202	5	
Work Week	09	10	11	12	13		27	28	29	30	31	32	33	34	35	36
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:** March 19, 2025: Issued initial notification.

July 21, 2025: Issued final notification. Attached the Qualification Report. Provided the estimated first ship date to be on August 26, 2025.

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

#### **Attachments:**

PCN\_MFOL-14IYNS822\_Pre and Post\_Change\_Summary.pdf PCN\_MFOL-14IYNS822\_Qual Report.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> <u>home page</u> 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.

MFOL-14IYNS822 - CCB 7234 Final Notice: Qualification of MTAI as an additional final test site for selected ATMEGA3250, ATMEGA3250P, ATMEGA3290P, ATMEGA3290P, ATMEGA6450, and ATMEGA6490 device families available in 100L TQFP (14x14x1mm) package.

Affected Catalog Part Numbers (CPN)

ATMEGA3250V-8AUR

ATMEGA3290V-8AU

ATMEGA6490-16AU

ATMEGA3290P-20AUR

ATMEGA3250-16AUR

ATMEGA3250PV-10AUR

ATMEGA6450V-8AUR

ATMEGA3290PV-10AUR

ATMEGA6450-16AU

ATMEGA3250P-20AU

ATMEGA6490V-8AU

ATMEGA3290-16AU

ATMEGA3290PV-10AU

ATMEGA3290PV-10AUA0

ATMEGA6450-16AUR

ATMEGA3250V-8AU

ATMEGA3290-16AUR

ATMEGA3250-16AU

ATMEGA3250PV-10AU

ATMEGA3290V-8AUR

ATMEGA6490-16AUR

ATMEGA6450V-8AU

ATMEGA3290P-20AU

ATMEGA6490V-8AUR

ATMEGA3250P-20AUR

Date: Wednesday, July 16, 2025

# CCB 7234 Pre and Post Change Summary

PCN #: MFOL-14IYNS822



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions

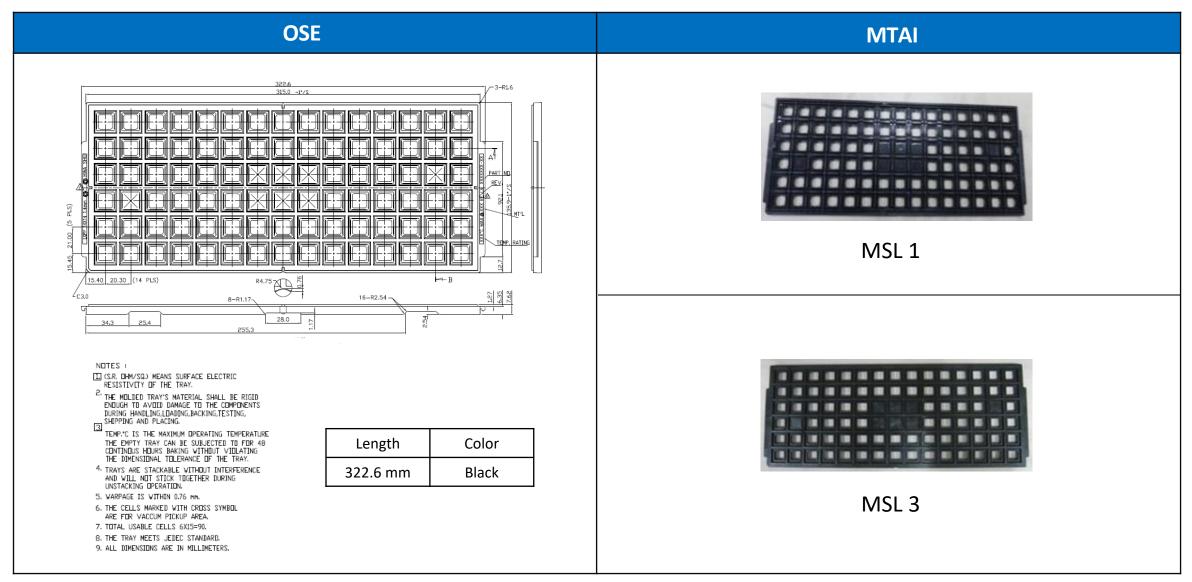


## Tray - BQM and Pin 1 Orientation

	OSE	MTAI
Base Quantity Multiple (BQM)	90	90
Pin 1 orientation	Left lower	Chamfer Side



### **Tray - Drawing**



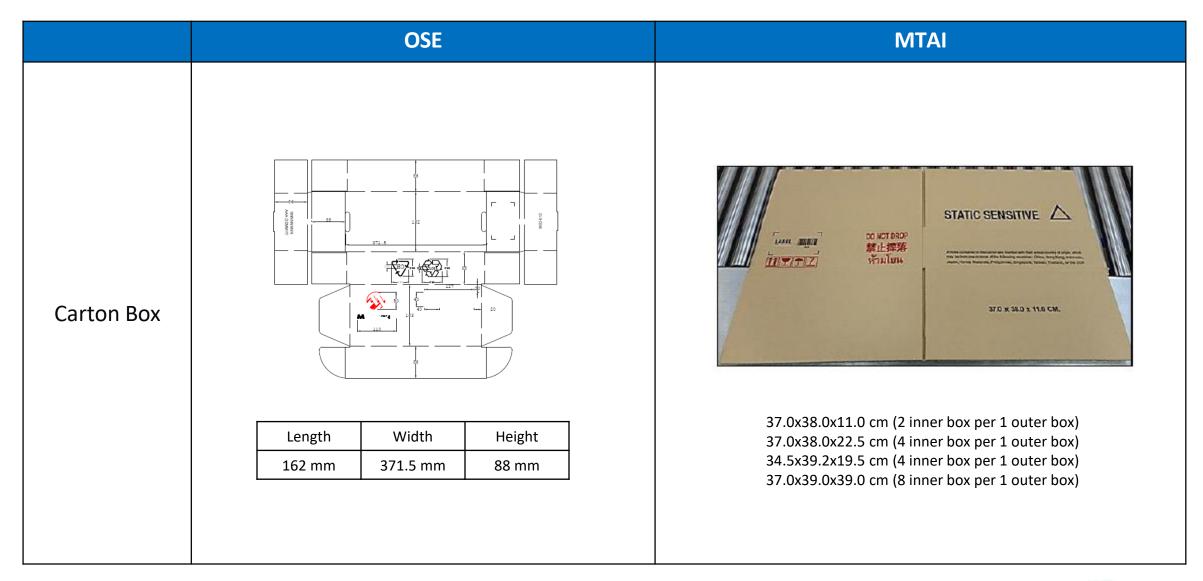


# **Tray - Packing Method**

	OSE	MTAI				
Antistatic Shielding Bag / Moisture Barrier Bag	PIN 1 MSL Rabel Rarcode label Opening  Length Width  280 mm 510 mm	MSL 1  Length Width 560 mm 280 mm  MSL 3  Length Width 560 mm 280 mm				
Desiccant	TACHANG CHIRECAN INC. CO., LTD.  DO NOT PAR  DEBLAC CHICA MA. CASCA UNIT A S.  TACHANG CHIRECAN INC. CO., LTD.  DEBLAC CHICA STATE  UNIT PAK  BRACTIVATION THEM IN ALG. 18 HOUSER AT 3 AG Y  REACTIVATED  LIGHT  TACHANG CHIRECAN INC. CO., LTD.  UNIT PAK  OGRALT SICHLOHIGH PIRE  UNIT PAK  DUNITS, 33g	N/A  MSL 3  FREGRETION WE ASSET THE 18 PROCESSED THE CONTROL TO THE PROCESSED THE PROC				



### **Tray - Packing Method**



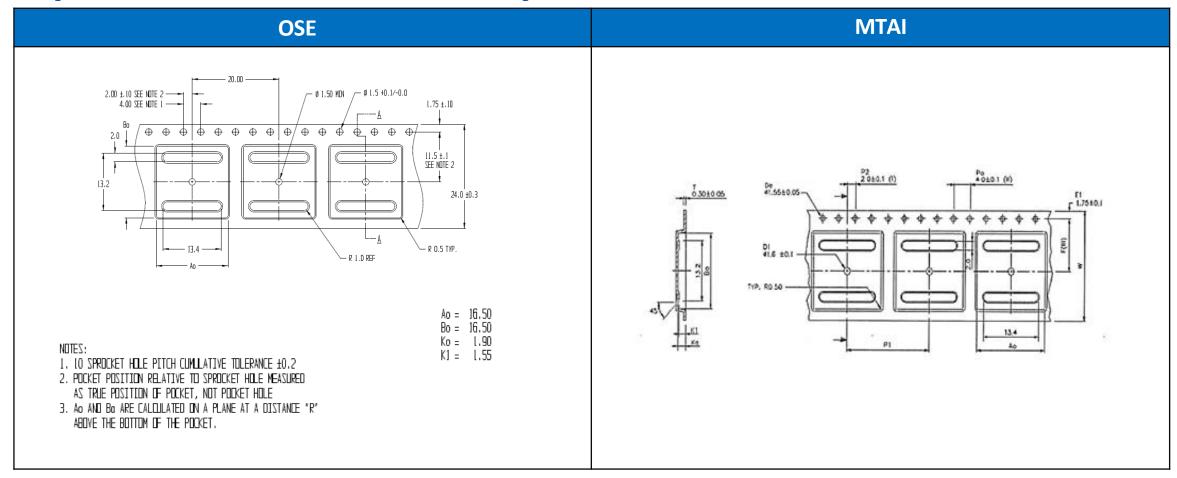


# Tape and Reel – BQM and Pin-1 Orientation

	OSE	MTAI
Base Quantity Multiple (BQM)	1500	1500
Pin 1 orientation	Quadrant 1	Quadrant 1



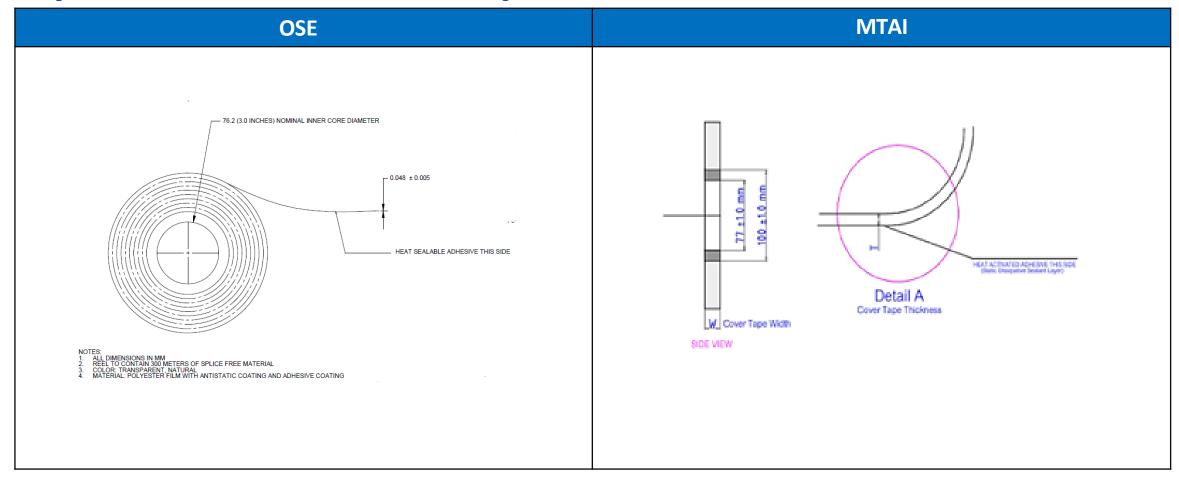
#### Tape and Reel – Carrier Tape



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	K1 ±0.1 or Specific
OSE	24 mm	20 mm	16.5 mm	16.5 mm	1.90 mm	1.55 mm
MTAI	24 mm	20 mm	16.5 mm	16.5 mm	1.90 mm	1.55 mm



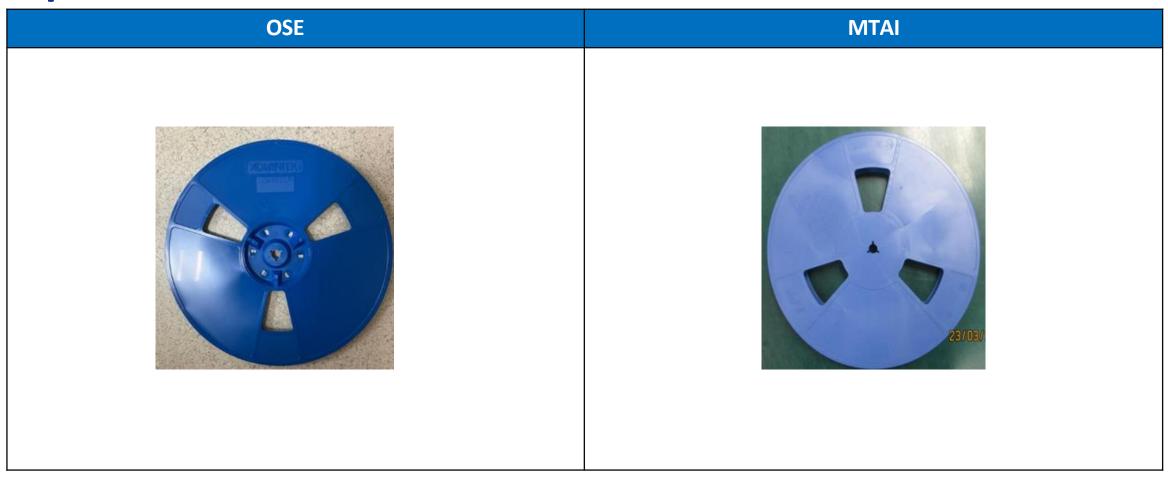
### Tape and Reel – Cover Tape



Plant	Width	Thickness	Sealing Method
OSE	21 mm	0.048 mm	Heat Seal
MTAI	MTAI 21.0 ± 0.1mm		Heat Seal



### Tape and Reel – Plastic Reel



Plant	Diameter	Hub	W1	W2	Color
OSE	330 mm	102 mm	8.4 mm 16.4 mm	11.1 mm 19.1 mm	Blue
MTAI	330 mm	100 mm	24.40 mm	30.40 mm	Dark Blue



# **Tape and Reel - Packing Method**

	OSE	MTAI			
Desiccant	DO NOT BAY  COMMAND OFFICE AND COMMAND THE AS  DESICCANT MEETS INC. O. MARK &  DESICCANT MEETS INC. O. MARK TYPE I A S  REACTIVATION THE IN SIG. OR LUTE  DO NOT BAY  DESICCANT MEETS INC. O. LUTE  DO NOT BAY  LINIT  PACKAGE USE  OOMAND DONE BAY  COMMAND DONE BAY  COMMAND DONE FREE  UNIT PAK  TWO UNITS, 33g	N/A MSL 1	PRODUCTION TO A SHEET PIET IS TO SHEET PIET PIET IS TO SHEET PIET PIET IS TO SHEET PIET PIET PIET PIET PIET PIET PIET P		
Antistatic Shielding Bag / Moisture Barrier Bag	RESURPEND Lakel RESURPEND LAK	Length Width 420 mm 370 mm  MSL 1	Length Width 440 mm 370 mm MSL 3		



# **Tape and Reel - Packing Method**

	OSE		MTAI		
Carton Box	Length Width 35.6 cm 34.0 cm	Height 88 mm	37.0x38.0x11.0 cm (2 inner box per 1 outer box) 37.0x38.0x22.5 cm (4 inner box per 1 outer box) 34.5x39.2x19.5 cm (4 inner box per 1 outer box) 37.0x39.0x39.0 cm (8 inner box per 1 outer box)		





#### **QUALIFICATION REPORT SUMMARY**

PCN #: MFOL-14IYNS822

Date: July 07, 2025

Qualification of MTAI as an additional final test site for selected ATMEGA3250, ATMEGA3250P, ATMEGA3290, ATMEGA3290P, ATMEGA6450, and ATMEGA6490 device families available in 100L TQFP (14x14x1mm) package.



Purpose: Qualification of MTAI as an additional final test site for selected ATMEGA3250,

ATMEGA3250P, ATMEGA3290, ATMEGA3290P, ATMEGA6450, and ATMEGA6490 device families available in 100L TQFP (14x14x1mm) package.

CCB No.: 7234

Test / Evaluation	Test Condition / Parameters	Result
Datalog Bin Comparison	<ul> <li>Compare test numbers, test names, test sequence bin assignments &amp; pass/fail results</li> <li>Accept if all match or justify the differences</li> </ul>	Passed
Site by Site Verification	Verifies the channel map has the correct site assignments and tester/handler communications work correctly	Passed
Correlation Lot Report	<ul> <li>Yield comparison between systems and test sites.</li> <li>Accept on yield match within 0.1%</li> </ul>	Passed
Test Stability	50 loop test performed with no datalog delays     Accept on 0 fails	Passed
Parametric Test Stability Verification	Use Real Time Statistics software	Passed
Unit to unit parametric correlation	A full assembly strip characterized on both systems and graphed vs each other & the data sheet limits	Passed