

Product Change Notification / ASER-18FQMI580

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14-Jun-2022

Product Category:

32-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4381.002 Final Notice: Qualification of MTAI as an additional final test site for selected ATSAMD21E15Bxxx and ATSAMD21E16Bxxx device families available in 32L TQFP (7x7x1.0mm) package.

Affected CPNs:

ASER-18FQMI580_Affected_CPN_06142022.pdf ASER-18FQMI580_Affected_CPN_06142022.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 MTAI as an additional final test site for selected ATSAMD21E15Bxxx and ATSAMD21E16Bxxx device families available in 32L TQFP (7x7x1.0mm) package.

Pre and Post Change Summary:

		Pre Ch	nange	Post Change			
Final Test Site		Amkor Technology Philippines (P3/P4), INC. (ATP7)	Microchip Technology Operations (Philippines) Corporation (MPHL)	Amkor Technology Philippines (P3/P4), INC. (ATP7)	Microchip Technology Operations (Philippines) Corporation (MPHL)	Microchip Technology Thailand (MTAI)	
Base Quantity	Tape and Reel	2000	2000	2000	2000	2000	
Multiple (BQM)	Tray	250	250	250	250	250	
Pin 1	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1	Quadrant 1	Quadrant 1	
Orientation	Tray	Chamfer Side	Chamfer Side	Chamfer Side	Chamfer Side	Chamfer Side	
Carrier T	ape	Minor dim	Minor dimensional changes. See Pre and Post Change Summary for Comparison.				
Cover Tape Minor dimensional changes. See Pre and Post Change Summar Comparison.					Summary for		
Reel Co	lor	White	White	White	White	Dark Blue	
Reel Dime	nsion	Minor dimensional changes. See Pre and Post Change Summary for Comparison.					
Packing M	ethod	Se	e Pre and Post	Change Summ	ary for Compa	rison	

Impacts to Data Sheet:None

Change ImpactNone

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

Change Implementation Status:In Progress

Estimated First Ship Date:June 30, 2022 (date code: 2227)

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

Time Table Summary:

	February 2022					Jur	ne 20)22			
Workweek	6	7	8	9	1 0	1	2	2 4	2 5	2 6	2 7

Initial PCN Issue Date		Х				
Qual Report Availability					Х	
Final PCN Issue Date					Х	
Estimated Implementation Date						Х

Method to Identify Change:

Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History:February 16, 2022: Issued initial notification.

June 14, 2022: Issued final notification. Attached the qualification report. Provided estimated first ship date to be on June 30, 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_ASER-18FQMI580_Qual_Report.pdf PCN_ASER-18FQMI580_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 4381.001 Pre and Post Change Summary PCN #: ASER-18FQMI580



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



Tape and Reel - BQM and Pin 1 Orientation

	ATP7	MPHL	MTAI
Base Quantity Multiple (BQM)	2000	2000	2000
Pin 1 orientation	Quadrant 1	Quadrant 1	Quadrant 1



Tape and Reel - Carrier Tape

ATP7	MPHL	MTAI
NOTES L 10 SPROCRET HOLE PICH CUMLATIVE TOLERANCE 192 2. CAMBER IN COMPLANIE VITE EN 481 3. PRIDET PROTIENT RELETANCE, MUT PRICKET HOLE MEASURED AS TRUE PROSTURM OF PROCRET, MUT PRICKET HOLE SECTION A - A	T 2,0±0,1 (i) Pq 4,0±01 (ii) 1,75±0,1 (ii) 1,75±0,1 (iii) 1,75±0,1	P7
W: 16.00 +/-0.3 mm P1: 12.00 +/-0.1 mm A0: 9.30 +/- 0.1 mm B0: 9.30 +/- 0.1 mm K0: 1.80 +/- 0.1 mm K1: 1.20 +/- 0.1 mm Thickness 0.30 +/- 0.05 mm Color: Black	W: 16.00 +/-0.3 mm P1: 12.00 +/-0.1 mm A0: 9.60 +/- 0.1 mm B0: 9.60 +/- 0.1 mm K0: 1.85 +/- 0.1 mm K1: 1.25 +/- 0.1 mm Thickness 0.30 +/- 0.05 mm Color: Black	W: 16.00 +/-0.3 mm P1: 12.00 +/-0.1 mm A0: 9.60 +/- 0.1 mm B0: 9.60 +/- 0.1 mm K0: 1.85 +/- 0.1 mm K1: 1.25 +/- 0.1 mm Thickness 0.30 +/- 0.05 mm Color: Black



Tape and Reel - Cover Tape

ATP7	MPHL	MTAI
PART NO. VIDIH "V" ABX0053 53 ± 0.005 ABX0054 54 ± 0.006 ABX0055 55 ± 0.006 ABX0059 92 ± 0.006 ABX0059 95 ± 0.006 ABX0051 31 ± 0.006 ABX0051 31 ± 0.006 ABX0051 21 ± 0.006 ABX0051 21 ± 0.006 ABX0052 25 ± 0.006 ABX0053 21 ± 0.006 ABX0053 21 ± 0.006 ABX0055 55 ± 0.006 ABX0056 26 ± 0.006 ABX0056 26 ± 0.006 ABX0056 26 ± 0.006 ABX0056 49 ± 0.006 ABX005	ADRESIVE POLISSIENT FILM SECTION Y - Y SECTION Y - Y SECTION X - X NOTES 1 THICKNESS: 0.055-0.055mm. 1 THICK	Detail A Cover Tape Width SIDE VIEW
Cover Tape Width: 13.3 +/-0.1 mm Cover Tape thickness: 0.053 +/- 0.005 mm Color: Clear	Cover Tape Width: 13.3mm Cover Tape Thickness: 0.05mm Color: Clear	Cover Tape Width: 13.3 +/-0.1 mm Cover Tape thickness: 0.050 +/- 0.010 mm Color: Clear



Tape and Reel – Plastic Reel

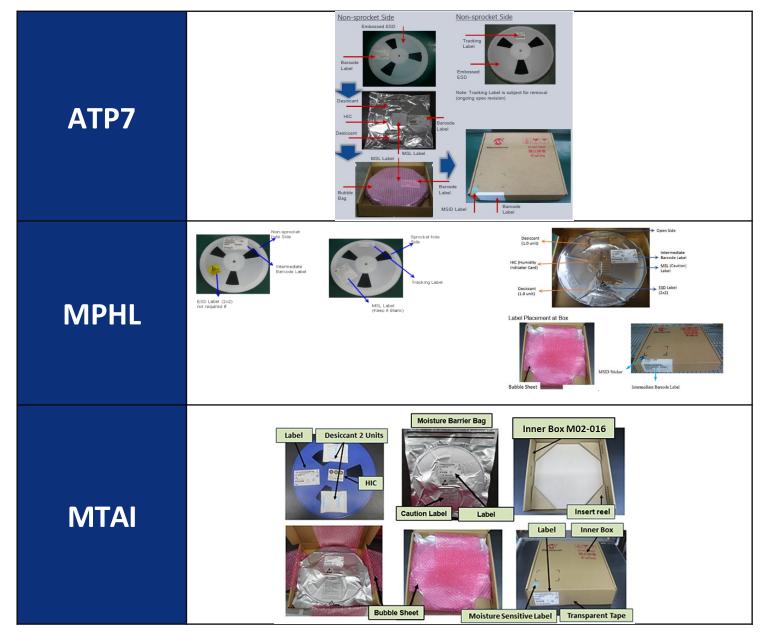
ATP7 **MPHL MTAI** PHILKOTECH CORP. Reel Diameter: 330.2 +/-2.0mm Reel Diameter: 330mm Hub: 100mm Reel Diameter: 330mm Hub: 100mm W1: 17 +/-0.3 mm Hub: 100mm W1: 16.40mm W2: 19.4+/- 0.8 mm W1: 17.5mm W2(Max): 22.40mm Color: White W2: 21.5mm Color: Dark Blue Color: White



Tape and Reel - Packaging

Final Test Site	АТР7	MPHL	MTAI
Desiccant	Sorb Magastrating School Magastrating School Magastrating	SOLUDAKTA	SPECIFICATION MILEOSAGE TYPE IS IS IN THE SERVICE TYPE IS IN THE SERVICE TYPE IS IN THE SERVICE TYPE IS IN THE SERVICE DEPOSITION SPECIFICATION SPECIFICATION IN THE SHAPE TYPE IS IN THE SERVICE THE SERVICE THE IS IN THE SERVICE TH
HIC	COBALT FREE Humidity Indicator Brown - Dry LEVEL 2 PARTS Brake parts if 60% is NOT Brown and 5% is NOT Brown and 5% is NOT Free Cocception of the cord into a large if 60% is green Indial Use: Do not par the cord into a large if 60% is green	5% 10% LEVEL 2A-SA PARTS Bate parts 10% is NOT smiches and on it ASLES. BROWN-DRY AZURE-WET COMAL PRESENTANTONICH GARD ACCORD. COMPLES WITH PROJECTION GARD COMPLES WITH PROJECTION AND MISS 4 3	60% LEVEL 2 PARTS Bake parts if 60% ISNOT BROWN ISNOT BROWN INITIAL USE: DO NOT put his Card into a bag If 5%, 10%, 0,60% ISNOT BROWN BROWN-DRY AZURE-WET COMPLIER WITH IPC/JEDEC, J-STD-933
Boxes	MICROCHIP SONOTOOD STATES WILLIAM WILLIAM	MICROCHIP DO NOT GROP \$\frac{1}{2}\frac{1}	MICHOCHIP DO NOT DROP 禁止摔落
Bags		©	

Tape and Reel – Packing Procedure



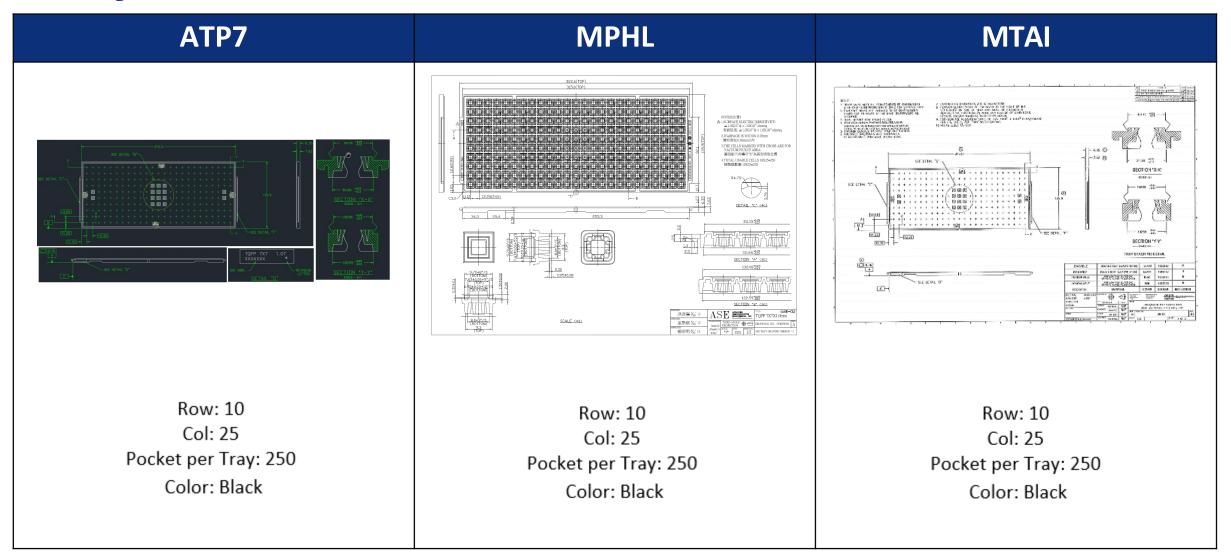


Tray - BQM and Pin 1 Orientation

	ATP7	MPHL	MTAI
Base Quantity Multiple (BQM)	250 per bundle (10+1 cover tray)	250 per bundle (10+1 cover tray)	250 per bundle (10+1 cover tray)
Pin 1 orientation	Chamfer Side	Chamfer Side	Chamfer Side



Tray - Size

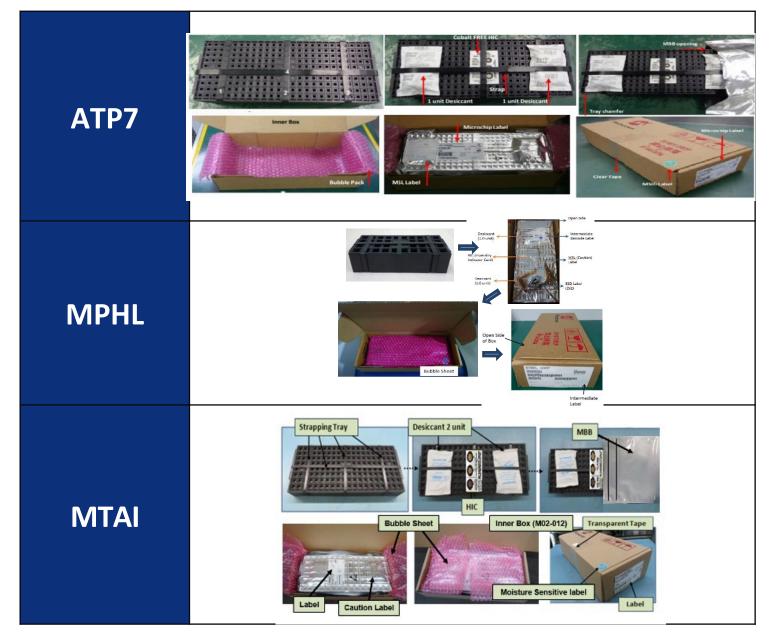




Tray - Packaging

Final Test Site	АТР7	MPHL	MTAI
Desiccant	SOLD MUSCHELL IN THE SECRET IN	SCOLUBARY SOLUBARY SOLUB	SPECIFICATION MILES SAFE TIPE I. IN. SPECIFICATION MILES SAFE TIPE I. IN. FREADMINION MILES SAFE TIPE I. IN. FREADMINION SAFE TO COMMINION MILES SAFE TO BE AND STATIC DEFUNDING MILES SAFE TIPE I. IN. RECOMPLIANT THE WARGE TO SAFE THE I. IN. RECOMPLIANT S
HIC	COBALT FREE Humidity Indicator Brown - Dry Green-Wet LEVEL 2 PARTS ESSENSION ESSENSION ENGINE ENGIN ENGINE ENGIN ENGINE ENGINE ENGINE ENGINE ENGINE ENGINE ENGINE E	5% 10% LEWEL SA-SA PARTS Belanche I TON S NOT SHOWN WIT ON SA AZARE BROWN-DRY AZIRE-WET CORALT PACK RESERVE CONTROL COMPLES WITH POLICIDE J-8TO-080 M18 5 4 3	LEVEL 2 PARTS Bake parts if 50% IS NOT BROWN Initial use: DO NOT put this card into a bag if 5% to COBALT FREE HUMIDITY INDICATOR OSS AND ABUSE: COMPLIES WITH IPC/JEDEC J-STD-033
Boxes	MICROCHIP DO NOT DROP 禁止摔落 常知证明	MICROCHIP DO NOT DROP 禁止摔落 第1218年 10	MICROCHIP DO NOT DROP 禁止摔落 附加证此
Bags			

Tray – Packing Procedure







QUALIFICATION REPORT SUMMARY

PCN #: ASER-18FQMI580

Date: May 20, 2022

Qualification of MTAI as an additional final test site for selected ATSAMD21E15Bxxx and ATSAMD21E16Bxxx device families available in 32L TQFP (7x7x1.0mm) package.

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

ATSAMD21E15Bxxx and ATSAMD21E16Bxxx device families available

in 32L TQFP (7x7x1.0mm) package.

CCB No.: 4381.002

Test Name	Test Conditions	Result
Datalog/Bin Comparison	 Compare test numbers, test names, test sequence bin assignments & pass/fail results Accept if all match or justify the differences 	PASSED
Test Stability	 50 loop test performed with no datalog delays Can compare the data of the above analysis with 48L/64L TQFP results. 	PASSED
Monitor Test Yield	Strip test yields should be comparable to the singulated final test yield trends.	PASSED

ASER-18FQMI580 - CCB 4381.002 Final Notice: Qualification of MTAI as an additional final test site for selected ATSAMD21E15Bxxx and ATSAMD21E16Bxxx device families available in 32L TQFP (7x7x1.0mm) package.

Affected Catalog Part Numbers (CPN)

ATSAMD21E16B-AF

ATSAMD21E15B-AF

ATSAMD21E16B-AU

ATSAMD21E15B-AU

ATSAMD21E16B-AUT

ATSAMD21E15B-AUT

ATSAMD21E16B-AFT

ATSAMD21E15B-AFT

Date: Monday, June 13, 2022