



Product Change Notification / ASER-08ZQ343

Date:

28-Dec-2022

Product Category:

Wireless Modules

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5275 Final Notice: Qualification of MMT as an additional assembly site for selected ATWINC and ATWILC device families (CPN) available in 28L Module (21.72x14.73xmm) and 36L (14.73x22.43mm) Module packages.

Affected CPNs:

[ASER-08ZQ343_Affected_CPN_12282022.pdf](#)

[ASER-08ZQ343_Affected_CPN_12282022.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 MMT as an additional assembly site for selected ATWINC and ATWILC device families (CPN) available in 28L Module (21.72x14.73xmm) and 36L (14.73x22.43mm) Module packages.

Pre and Post Change Summary:

		Pre Change	Post Change	
Assembly Site	ATWINC3400-MR21 OCA 36L Module (14.73x22.43mm)	Delta Electronics, Inc. (DEI5)	Delta Electronics, Inc. (DEI5)	Microchip Technology Thailand (MMT)
	ATWINC1500-MR21 OPB 28L Module (21.72x14.73xmm)	Might Electronic Co.,Ltd (MEC5)	Might Electronic Co.,Ltd (MEC5)	Microchip Technology Thailand (MMT)
Tray	Type	Plastic Tray	Jedec Tray	Jedec Tray
		See Pre and Post Change Summary attachment for comparison.		
	BQM	50	72	72
	Pin 1 Orientation	Quadrant 3	Quadrant 3	Quadrant 3
	Bakeable?	Not Bakeable	Bakeable	Bakeable
	Packaging	See Pre and Post Change Summary attachment for comparison.		
T/R	Reel	Black	Black	Dark Blue
		See Pre and Post Change Summary attachment for comparison.		
	BQM	500	500	500
	Pin 1 Orientation	Quadrant 1	Quadrant 1	Quadrant 1
	Carrier Tape	Minor dimensional changes. See Pre and Post Change Summary attachment for comparison.		

	Cover Tape	Minor dimensional changes. See Pre and Post Change Summary attachment for comparison.
	Packaging	See Pre and Post Change Summary attachment for comparison.

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve productivity by qualifying MMT as an additional assembly site.

Change Implementation Status:In Progress

Estimated First Ship Date:January 15, 2023 (date code: 2303)

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

Time Table Summary:

	October 2022					>	December 2022					January 2023				
Workweek	4 0	4 1	4 2	4 3	4 4		4 9	5 0	5 1	5 2	5 3	1	2	3	4	5
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:October 18, 2022: Issued initial notification.

October 19, 2022: Reissued initial PCN to update subject and description in PCN letter and Qualification Plan to better define scope.

December 28, 2022: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on January 15, 2023.

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-08Z0ZQ343_Qual Report.pdf](#)

[PCN_ASER-08Z0ZQ343_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 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 REPORT SUMMARY

PCN #: ASER-08ZQZQ343

**Date:
December 8, 2022**

**Qualification of MMT as an additional assembly site for
selected ATWINC and ATWILC device families (CPN)
available in 28L Module (21.72x14.73xmm) and 36L
(14.73x22.43mm) Module packages.**

Purpose: Qualification of MMT as an additional assembly site for selected ATWINC and ATWILC device families (CPN) available in 28L Module (21.72x14.73xmm) and 36L (14.73x22.43mm) Module packages.

CCB: 5275

MP CODE ZY1037LCBA54

PART No. ATWINC1500-MR210PB

BOMs

Part Description	Mount location	Primary	Usage	UOM
RF Shield (12.70 x 13.66 x 1.3 mm)	SHI	Yes	1	PC
PCB ATWINC1500-MR210PB	PCBA	Yes	0	PC
PCB ATWINC1500-MR210PB	PCB B	No	1	PC
CRYSTAL 26/50/8/2.5x2.0	Y1	Yes	1	PC
IC WiFi 40QFN	UI	Yes	1	PC
FERRITE BEAD 120 OHM 0201ILN	FB04	Yes	1	PC
FERRITE,120 OHM at 100MHz,0402	FB01,FB02,FB03	Yes	3	PC
Capacitor CER 0.1uf 10%XSR 0402 10V	C002,C003,C004,C009,C010	Yes	5	PC
Capacitor CER 4.7PF S0V C0G/NPO 0402	C006,C007	Yes	2	PC
CAP CER IUF 6.3V XSR 0402	C005,C012	Yes	2	PC
SMT Capacitor IpF 50V	C023,C024	Yes	2	PC
CAP CER 1.2PF S0V COG/NP0 0201	C20	Yes	1	PC
Capacitor CER 1.BPF S0V NP0 0201	COIS, C016	Yes	2	PC
Capacitor CER 1UF 4V 20% X6S 0201	C001	Yes	1	PC
Capacitor CER 3.3pF NPO 0402 S0V	R002	Yes	1	PC
Capacitor CER 4.7UF 4V 20% XSR 0402	C025	Yes	1	PC
CAP CER 2.2UF 6.3V XSR 0402	C005, C0U	Yes	2	PC
FIXED IND 15NH 450MA 320MOHM SMD	L004	Yes	1	PC
POWER Inductor 2.2uH 20% 750mA 0.3ohms 0603	L00I	Yes	1	PC
FIXED IND 3.3NH 450MA 250MOHM SM	L002, LOOS	Yes	2	PC
Resistor 0.0 OHM 1/20W JUMP 0201SMD	(021	Yes	1	PC



MICROCHIP RELIABILITY REPORT

Manufacturing Information

Part No.	Lot No.
ATWINC1500-MR210PB	ENG-V-101
	ENG-V-201
	ENG-V-301

Result



Pass



Fail



— — — —

The ATWINC1500-MR210PB module assembled by MMT is qualified the Moisture/ Reflow Sensitivity Classification Level 3 at 260°C reflow temperature per IPC/JEDEC J- STD-020E standard and passed reliability test with Temp Cycle test.

RELIABILITY REPORT

Test Number (Reference)	Test Condition	Standard/ Method	QTY (Ace)	Def/SS	Result	Remark
Precondition Prior Perform Reliability Tests (At MSL Level 3)	Bake 150°C, 24 hours System: BLUE-M 30°C/60%RH Moisture Soak 192 hrs. System: ENVIROTRONIC Model: SH3 3x Convection-Reflow 260 +5/-0°C System: ChipFlo-4 Electrical test: MMT	IPC/JEDEC JESD22-A113 J-STD-020	30			10 ea/lot (3 lots)
				0/30	Pass	
Temp Cycle	-65/150°C, System: VOTSCH Read-point 500 cycles Electrical test: MMT	JESD22-A104	24	0/24	Pass	8 ea/lot
	Read-point 1,000 cycles Electrical test: MMT			0/24	Pass	8 ea/lot

Purpose: Qualification of MMT as an additional assembly site for selected ATWINC and ATWILC device families (CPN) available in 28L Module (21.72x14.73xmm) and 36L (14.73x22.43mm) Module packages.

MP CODE ZY1037LCBA54

PART No. ATWINC1500-MR210PB

BOMs

Part Description	Mount location	Primary	Usage	UOM
RF Shield (12.70 x 13.66 x 1.3 mm)	SHI	Yes	1	PC
PCB ATWINC1500-MR210PB	PCBA	Yes	1	PC
PCB ATWINC1500-MR210PB	PCB B	No	0	PC
CRYSTAL 26/50/B/2.5x2.0	YI	Yes	1	PC
IC WiFi 40QFN	UI	Yes	1	PC
FERRITE BEAD 120 OHM 0201IIN	FB04	Yes	1	PC
FERRITE,120 OHM at 100MHz,0402	FB01,FB02,FB03	Yes	3	PC
Capacitor CER 0.1uF10% XSR 0402 10V	C002,C003,C004,C009,C010	Yes	5	PC
Capacitor CER 4.7PF S0V C0G/NPO 0402	C006,C007	Yes	2	PC
CAP CER IUF 6.3V XSR 0402	C005,C012	Yes	2	PC
SMT Capacitor 1pf S0V	C023,C024	Yes	2	PC
CAP CER 1.2PF S0V C0G/NPO 0201	C20	Yes	1	PC
Capacitor CER 1.8Pf 50V NP0 0201	C015,C016	Yes	2	PC
Capacitor CER IUF 4V 20% X6S 0201	C001	Yes	1	PC
Capacitor CER 3.3pf NPO 0402 50V	R002	Yes	1	PC
Capacitor CER 4.7UF 4V 20% XSR 0402	C025	Yes	1	PC
CAP CER 2.2UF 6.3V XSR 0402	C005, C011	Yes	2	PC
FIXED IND ISNH 450MA 320MOHM SMD	I004	Yes	1	PC
POWER Inductor 2.2uH 20% 750mA 0.3ohms 0603	LO01	Yes	1	PC
FIXED IND 3.3NH 450MA 250MOHM SM	I002, LOOS	Yes	2	PC
Resistor 0.0 OHM 1/20W JUMP 0201SMD	C021	Yes	1	PC



MICROCHIP RELIABILITY REPORT

Manufacturing Information

Part No.	Lot No.
ATWINC1500-MR210PB	ENG-G-101
	ENG-G-201
	ENG-G-301

Result



Pass



Fail



The ATWINC1500-MR210PB module assembled by MMT is qualified the Moisture/ Reflow Sensitivity Classification Level 3 at 260°C reflow temperature per IPC/JEDEC J- STD-020E standard and passed reliability test with Temp Cycle test.

RELIABILITY REPORT						
Test Number (Reference}	Test Condition	Standard/ Method	QTY (Ace)	Def/S S	Result	Remark
Precondition Prior Perform Reliability Tests (At MSL Level 3)	Bake 150°C, 24 hours System: BLUE-M 30°C/60%RH Moisture Soak 192 hrs. System: ENVIROTRONIC Model: SH3 3x Convection-Reflow 260 +5/-0°C System: ChipFlo-4 Electrical test: MMT	IPC/JEDEC JESD22-A113 J-STD-020	30	0/30	Pass	10 ea/lot (3 lots)
Temp Cycle	-65/150°C, System: VOTSCH Read-point 500 cycles Electrical test: MMT Read-point 1,000 cycles Electrical test: MMT	JESD22-A104	24	0/24 0/24	Pass Pass	8 ea/lot 8 ea/lot

Purpose: Qualification of MMT as an additional assembly site for selected ATWINC and ATWILC device families (CPN) available in 28L Module (21.72x14.73xmm) and 36L (14.73x22.43mm) Module packages.

MP CODE ZY1057LDBM15

PART No. ATWINC3400-MR210CA

BOMs

Part Description	Mount location	Primary	Usage	UOM
RF Shield (12.70 x 13.66 x 1.3 mm) DWG-B32-023	SHI	YES	1	PC
PCB ATWINC3400-MR210CA/UA	PCBA	YES	1	PC
Antennas 2.45GHz ANTENNA	EI	YES	1	PC
CRYSTAL/26MHz/CI=SpF/15ppm/-40-SSC/ESR=60/2.Sx2mm	YI	YES	1	PC
IC/SOC/WiFi Bluetooth & FM Combo/4SQFN	UI	YES	1	PC
FERRITE BEAD 120 OHM 0201IIN	FBOI, FB02, FB03	YES	3	PC
CAP CER 10PF 25V COG 0201	COIS, C023, C024	YES	3	PC
CAP CER 2.2UF 6.3V XSR 0402	C003	YES	1	PC
CAP CER IUUF 6.3V XSR 0402	C007	YES	1	PC
RES SMD 0 OHM JUMPER 1/20W 0201	R00S, R009	YES	2	PC
CAP CER IPF 25V COG/NPO 0201	C017, C032	YES	2	PC
CAP CER 5.6PF 25V COG/NPO 0201	C015, C016	YES	2	PC
CAP CER 0.SPF 25V COG/NPO 0201	C033	YES	1	PC
CAP CER 1.SPF SOV COG/NPO 0201	R002, R003	YES	2	PC
CAP CER 0.IUF 6.3V XSR 0201	C002, C004, COOS, C006, COOS, C009	YES	6	PC
CAP CER IOOOOPF IOV X7R 0201	COOI	YES	1	PC
CAP CER IOUUF 6.3V XSR 0402	COIO	YES	1	PC
FIXED IND ISNH 450MA 320MOHM SMD	LOOS	YES	1	PC
FIXED IND IUH 950MA 250 MOHM SMD	LOOI	YES	1	PC
FIXED IND 1.SNH 600MA ISOMOHM SM	(O2O	YES	1	PC
FIXED IND 3NH 450MA 250 MOHM SMD	LOH	YES	1	PC
FIXED IND 3.3NH 450MA 250MOHM SM	LOOS, L009, ROOI	YES	3	PC
FIXED IND 4.7NH 350MA 400MOHM SM	IOI0	YES	1	PC



MICROCHIP RELIABILITY REPORT

Manufacturing Information

Part No.	Lot No.
ATWINC3400-MR210CA	ENG-N-101
	ENG-N-201
	ENG-N-301

Result



Pass



Fail



— — — —

The ATWINC3400-MR210CA module assembled by MMT is qualified the Moisture/ Reflow Sensitivity Classification Level 3 at 260°C reflow temperature per IPC/JEDEC J- STD-020E standard and passed reliability test with Temp Cycle test.

RELIABILITY REPORT

Test Number (Reference)	Test Condition	Standard	QTY	Def/55	Result	Remark
Precondition Prior Perform Reliability Tests (At MSL Level 3)	Bake 150°C, 24 hours System: BLUE-M 30°C/60%RH Moisture Soak 192 hrs. System: ENVIROTRONIC Model: SH3 3x Convection-Reflow 260 +5/-0°C System: ChipFlo-4 Electrical test: MMT	IPC/JEDEC JESD22-A113 J-STD-020	30	0/30	Pass	10 ea/lot (3 lots)
	-65/150°C, System: VOTSCH Read-point 500 cycles Electrical test: MMT Read-point 1,000 cycles Electrical test: MMT	JESD22-A104	24	0/24 0/24	Pass Pass	8 ea/lot 8 ea/lot

Affected Catalog Part Numbers (CPN)

ATWINC1510-MR210UB
ATWINC1500-MR210PB1952
ATWINC1500-MR210PB1954
ATWINC1500-MR210PB1961
ATWINC1500-MR210PB1952-T
ATWINC1500-MR210PB1944
ATWINC1510-MR210PB1944
ATWINC1510-MR210PB1952
ATWINC1510-MR210PB1954
ATWINC1510-MR210PB1961
ATWINC1510-MR210PB1963
ATWINC1510-MR210PB1963-T
ATWINC1510-MR210PB1967
ATWINC1500-MR210PB
ATWINC1510-MR210PB
ATWINC1500-MR210PBA0
ATWINC1500-MR210PB1172
ATWINC1510-MR210PB1140
ATWINC1500-MR210PB1140
ATWINC1500-MR210UB
ATWINC1500-MR210UB1140
ATWINC1510-MR210UB1140
ATWINC1500-MR210UB1954
ATWINC1500-MR210UB1944
ATWINC1500-MR210UB1961
ATWINC1510-MR210UB1944
ATWINC1510-MR210UB1952
ATWINC1510-MR210UB1954
ATWINC1510-MR210UB1961
ATWINC1500-MR210PB1961-T
ATWINC1500-MR210PB1965-T
ATWINC1510-MR210PB1961-T
ATWINC1500-MR210UB1961-T
ATWINC3400-MR210CA
ATWINC3400-MR210UA
ATWINC3400-MR210CA122
ATWINC3400-MR210UA122
ATWINC3400-MR210CA123
ATWINC3400-MR210CA123-T
ATWINC3400-MR210CA122-T
ATWINC3400-MR210CA142
ATWINC3400-MR210UA142
ATWINC3400-MR210CA131
ATWINC3400-MR210UA131
ATWINC3400-MR210CA131-T
ATWINC3400-MR210UA131-T

ATWINC3400-MR210CA142-T
ATWINC3400-MR210UA142-T
ATWINC1500-MR210PB1976
ATWINC1510-MR210PB1976
ATWINC1500-MR210UB1976
ATWINC1510-MR210UB1976
ATWINC1500-MR210PB1976-T
ATWINC1510-MR210PB1976-T
ATWINC1500-MR210UB1976-T
ATWINC1510-MR210UB1976-T
ATWINC3400-MR210CA143
ATWINC3400-MR210UA143
ATWINC3400-MR210CA143-T
ATWINC3400-MR210UA143-T
ATWILC1000-MR110PB
ATWILC1000-MR110UB
ATWILC1000-MR110UB-T
ATWILC1000-MR110PB-T
ATWILC3000-MR110CA
ATWILC3000-MR110UA
ATWILC3000-MR110UA-T

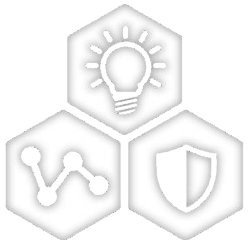
CCB 5275

Pre and Post Change Summary

PCN# ASER-08ZOZQ343



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



SMART | CONNECTED | SECURE

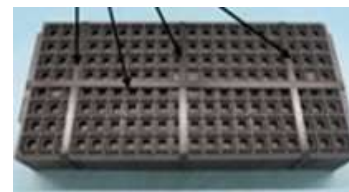
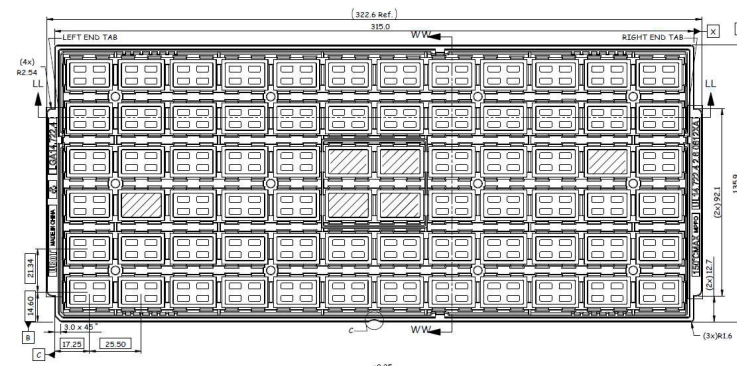
Tray Comparison

Pre Change



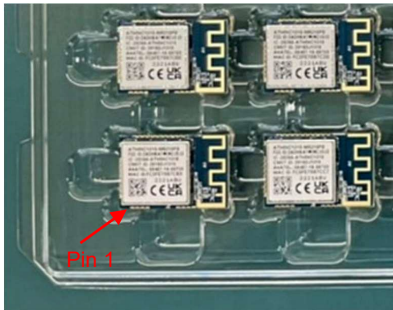
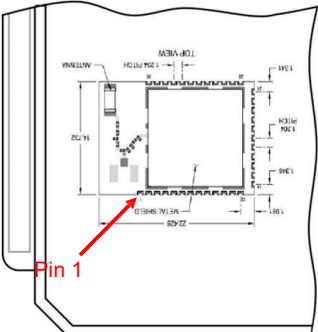
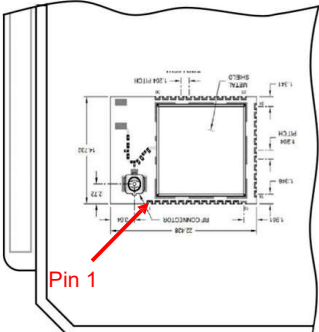
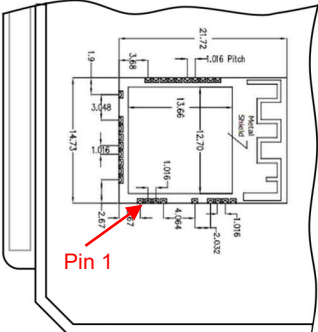
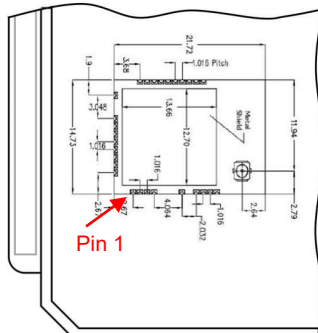
Media	Style	Bake?	Units per Tray	Dimensions
Tray	PET Clear Tray	Not Bakeable	50	142x330mm

Post Change



Media	Style	Bake?	Units per Tray	Dimensions
Tray	Jedec Tray	Bakeable	72	135.9x322.6mm

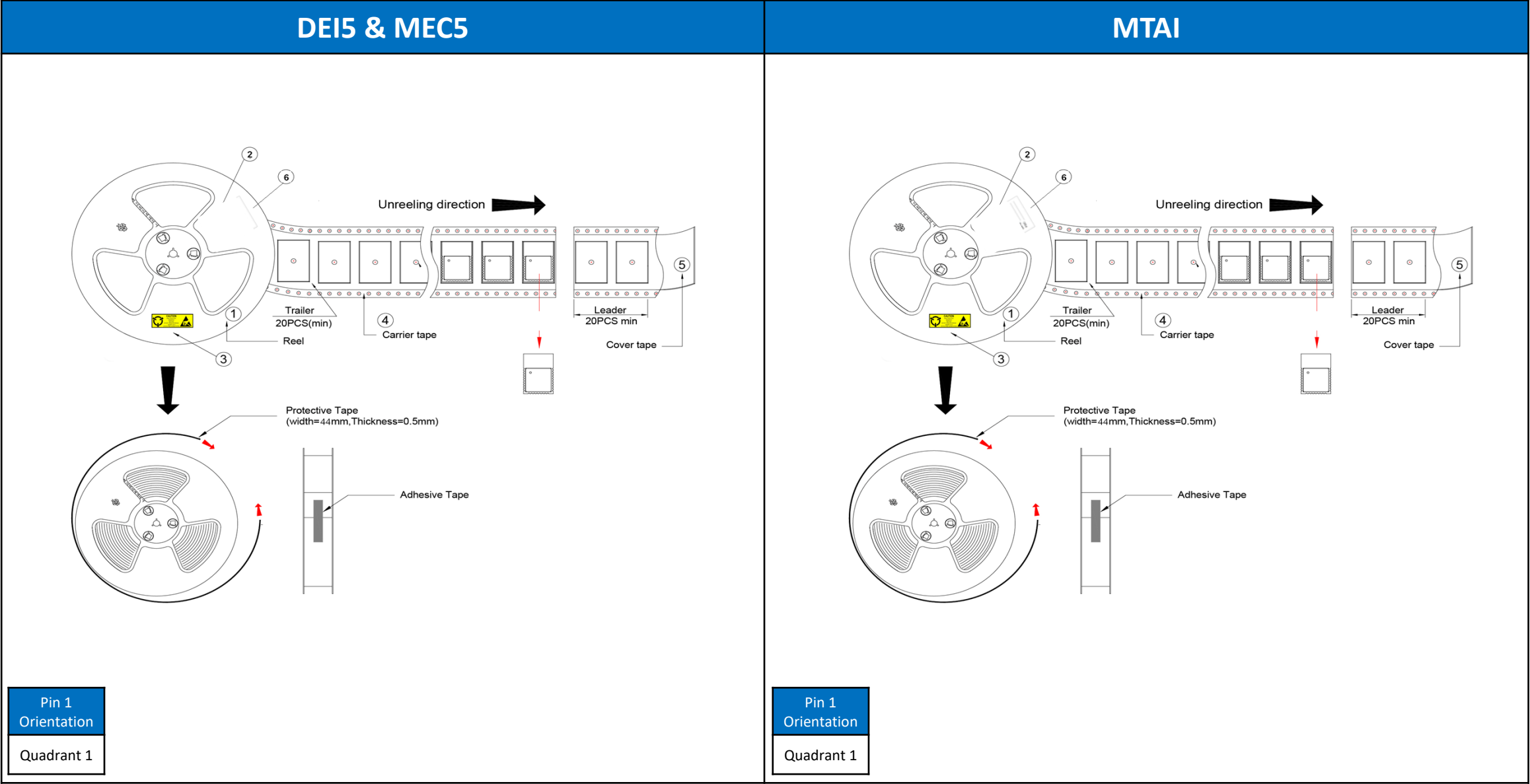
Tray Comparison – Pin 1 Orientation

Pre Change	Post Change
 Pin 1  Pin 1  Pin 1 Pin 1 Orientation Quadrant 3	 Pin 1  Pin 1  Pin 1  Pin 1 Pin 1 Orientation Quadrant 3

Tray Packing Media Comparison

Pre Change	Post Change
	

Tape and Reel Comparison – Pin 1 Orientation

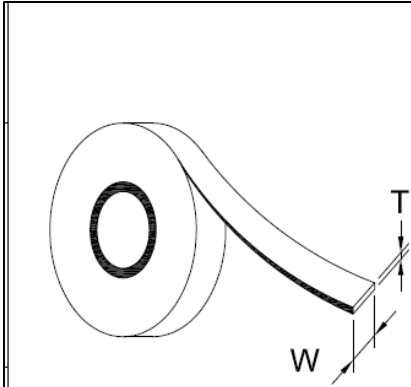
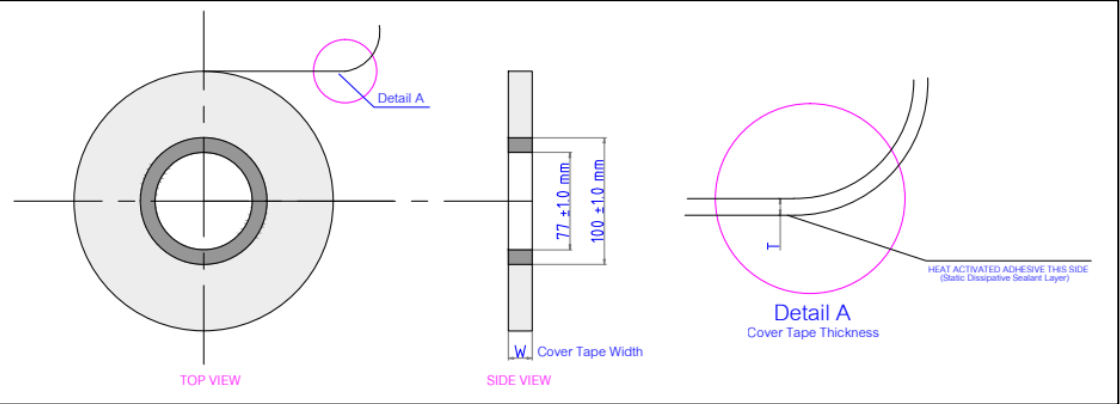


Tape and Reel Comparison – Carrier Tape

[illegible]

W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM
44.00 ±0.30	24.00 ±0.10	15.73±0.10	22.72 ±0.10	2.60 ±0.10	-	0.35 ±0.05	500
44.00 ±0.30	24.00 ±0.10	15.20±0.10	22.90 ±0.10	2.50 ±0.10	-	0.30 ±0.03	500

Tape and Reel Comparison – Cover Tape

DEI5 & MEC5	MTAI
 Notes: 1.Thickness(T):0.061mm,Width(W)=37.5±0.2mm; 2.Surface Resistivity(Component Side):10^4-10^9 Ohm/sq; - Surface Resistivity(Back Side);Non-Conductive; 3.Backing Type:Polyester - Adhesive Type:PSA - Sealing:Room Ambient 4.Package:200m/roll; 5.Must meet DELTA general Spec:10000-0162. 6.關於 Peel strength 特殊要求: Peel strength : 20~120 grams; - 使用與測試環境: 溫度 : 25±5℃ ; 膠輪封裝壓力 : 5Kg - 測試速度 : Cover Tape 相對於 Carrier Tape 300+/-10mm/minute; - 其他參數需要與 EIA-481-D 標準符合。	 TOP VIEW SIDE VIEW Detail A W Cover Tape Width 77 ± 1.0 mm 100 ± 1.0 mm Detail A Cover Tape Thickness HEAT ACTIVATED ADHESIVE THIS SIDE (Static Dissipative Sealant Layer)

Width W (mm.)	Thickness T (mm.)	Colour	Sealing Methodology
37.5 ±0.2	0.061	Transparent	Room ambient
37.5 ±0.1	0.050 ±0.010	Clear	Heat Seal

Tape and Reel Comparison – Plastic Reel

DEI5 & MEC5

規格品名	規格編號	W0	W1
13" 100*44mm旋轉式圓盤	RUR-26-3-XL	45.0±0.5	50.0±1.0

* 代表顏色編碼 B 黑色, C 實藍色, L 藍色, W 白色

注:

1. 圓盤變形,折痕白化不可,雜質缺損不可
2. 顏色根據客戶要求,不可有明顯色差.

MTAI

W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM
44.00 ± 0.30	24.00 ± 0.10	15.73 ± 0.10	22.72 ± 0.10	2.60 ± 0.10	-	0.35 ± 0.05	500
44.00 ± 0.30	24.00 ± 0.10	15.20 ± 0.10	22.90 ± 0.10	2.50 ± 0.10	-	0.30 ± 0.03	500

W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	K1 (mm.)	Thickness	BQM
44.00 ± 0.30	24.00 ± 0.10	15.73 ± 0.10	22.72 ± 0.10	2.60 ± 0.10	-	0.35 ± 0.05	500
44.00 ± 0.30	24.00 ± 0.10	15.20 ± 0.10	22.90 ± 0.10	2.50 ± 0.10	-	0.30 ± 0.03	500

Tape and Reel Comparison – Moisture Barrier Bag

DEI5 & MEC5

Anti-static Bag
(465*450 mm)

MTA1

REVISIONS

REV.	CN No.	DESCRIPTION	PROPOSED BY
A	DWG023986	ADD CAUTION LABEL AND SEAL LINE PRINTING ON WEB DUAL, MCHP-0008-2016, P-0008-2016 AND P-0118-2017	SATYAK S.
B	DWG029101	UPDATE T/R 13INCH WEB DUAL, MCHP-0017-2018 AND ADD DRAWING MCHP P/N 24000002, 24000023, 24000036, 24000042, 24000045 AND 24000061	SATYAK S.

T/R 13INCH MOISTURE BARRIER BAG

Note:

- (1) Color: Opaque in aluminum color
- (2) Printing Color: Black
- (3) Thickness: 4.0mils +/- 10% (0.40)
- (4) Detail A: Supplier part number (Optional)
- (5) Detail B: Microchip part number (Optional)
- (6) Specification Reference: MS-15090

ITEM	MEDIA	WIDTH (+6/-0 MM)	LENGTH (+6/-0 MM)	SEAL (+/-3 MM)	MCHP P/N
1	T/R	370	420	10	24000001
2	T/R	400	440	10	24000006

UNLESS OTHERWISE SPECIFIED

APPROVALS	BY	DATE
1. ALL DIMENSIONS TO BE SHOWN ON DIMENSIONS	DEPARTMENT MGR.	NATAPAPAS V. 01/10/2020
2. DO NOT SCALE PRINTS		
3. ROUND ALL DIMENSIONS		
4. BREAK ALL CORNERS		
5. CORNER RADIUS		

TITLE : STANDARD SEALING BAG

SCALE	DATE	SHEET	OF	OP	7
DRAW	CHECKED	DRAWING NO.	REV.		
SATYAK S.	NATAPAPAS V.	K19-014	B		

Length (mm)	Width (mm)	Thickness (mils)	Colour
450	465	N/A	Aluminum
440 +6.0/-0.0	400 +6.0/-0.0	4.0 ±0.4	Aluminum

Tape and Reel Comparison – Packing

DEI5 & MEC5

Diagram illustrating the components for DEI5 & MEC5 packing:

- 1. Desiccant *
- 2. RoHS Label
- 3. Product Label
- 4. ESD Label
- 5. Reel PS 330inch 330x49.1
- 6. HIC *
- 7. MSL Label *
- 8. Anti-static Bag

Humidity Indicator Card (HIC) details:

- SAVE UNITS IF PINK
- CHANGE DESICCANT IF PINK
- DISCARD IF GREEN OR BROWN AND METAL CORROSION

Sequence of three images showing the assembly of the inner box:

- Empty inner box with bubble sheet.
- Inner box with bubble sheet and desiccant.
- Inner box with bubble sheet, desiccant, and reel.

ESD Label

RoHS Label

Dimension of Box CRGD paper (Inner box)	
36.0x34.0x6.5 cm	

MTAI

Diagram illustrating the components for MTAI packing:

- Label
- Desiccant 2 Units
- HIC
- Moisture Barrier Bag
- Caution Label
- Label
- Inner Box
- Bubble Sheet
- Moisture Sensitive Label
- Transparent Tape

Inner box	
Drawing number	Dimension W x L x H (cm)
M02-016 (Large)	37x35.3x7.7

Tape and Reel Comparison – Packing

DEI5 & MEC5		MTAI		
Dimension of Carton CRGD Paper (Outer)	Number Inner box per carton	Carton	Dimension W x L x H (cm)	Number of Inner box(es) per carton
35.5x18.0x37.5 cm	2 : 1	M01-044 (SM)	37.0x38.0x11.0	1 : 1
		M01-045 (S4)	37.0x38.0x22.5	2 : 1
		M01-046 (S5)	37.0x39.0x39.0	4 : 1
		M01-039 (TR)	28.6x37.5x36.2	4 : 1
		M01-047 (S3)	42.0x66.0x39.0	8 : 1

Note; Outer carton label.

1. Static Sensitive label
2. Delta label
3. RoHS label



Note; Outer carton label.

1. Static Sensitive screen on outer carton
2. Microchip label

Example

