Product Change Notification / JAON-09HVKT693

Date:

13-Feb-2023

Product Category:

32-bit Microcontrollers, Smart Energy SOC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6142 Initial Notice: Qualification of MPHL as an additional final test site for ATM90E36A-AU-R, ATM90E36A-AU-Y, SWF2L30B-AU-R, and SWF2L30B-AU-Y catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

Affected CPNs:

JAON-09HVKT693_Affected_CPN_02132023.pdf
JAON-09HVKT693_Affected_CPN_02132023.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 MPHL as an additional final test site for ATM90E36A-AU-R, ATM90E36A-AU-Y, SWF2L30B-AU-R, and SWF2L30B-AU-Y catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change	
Final Test Site	ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Reel BQM	1000	1000	1000
Reel Pin 1 Orientation	Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape	No change. See pre and post change for comparison.		
Cover Tape	Minor dimension change. See pre and post change for comparison.		
Sealing Methodology	Heat	Heat	Pressure
Plastic Reel	Minor dimension change. See pre and post change for comparison.		
Tray BQM	250	250	250
Tray Pin 1 Orientation	1D	1D	Near chamfer side
	See pre and post change for comparison.		
Tape and Reel / Tray Packing Method	See pre and post change for comparison.		

Impacts to Data Sheet: None

Change Impact None

Reason for Change: To improve manufacturability and on-time delivery performance by qualifying MPHL as an additional final test site.

Change Implementation Status: In Progress

Estimated Qualification Completion Date: April 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:

	February 2023					>	April 2023				
Workweek	5	6	7	8	9		13	14	15	16	17
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: February 13, 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_JAON-09HVKT693_Qual Plan.pdf
PCN_JAON-09HVKT693_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.

JAON-09HVKT693 - CCB 6142 Initial Notice: Qualification of MPHL as an additional final test site for ATM90E36A-AU-R, ATM90E36A-AU-Y, SWF2L30B-AU-R, and SWF2L30B-AU-Y catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

Affected Catalog Part Numbers (CPN)

ATM90E36A-AU-R

ATM90E36A-AU-Y

SWF2L30B-AU-R

SWF2L30B-AU-Y

QUALIFICATION PLAN SUMMARY

PCN#: JAON-09HVKT693

Date:
February 9, 2023

Qualification of MPHL as an additional final test site for ATM90E36A-AU-R, ATM90E36A-AU-Y, SWF2L30B-AU-R, and SWF2L30B-AU-Y catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

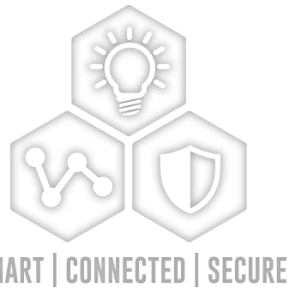
Purpose: Qualification of MPHL as an additional final test site for ATM90E36A-AU-R, ATM90E36A-AU-Y, SWF2L30B-AU-R, and SWF2L30B-AU-Y catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

CCB#: 6142

Test /Evaluation	Test Condition/Parameters
Original Final Test Site Correlation	Run 3,000 devices to the final test flows at the original site and keep the good devices and rejects in separate bins.
Original Final Test Site Characterization	Characterize 33 good devices at the original test site with DC items and measurable functional test items which are specified in the product datasheet (ex. Tce, Icc, Isb, Vih, Vil, Voh, Vol) and send these devices to the destination final test site.
Destination Final Test Site Characterization	Re-characterize the same 33 good devices at the destination test site using the destination site hardware/programs for the same DC and measurable functional test items. The results will be accepted if the variance within ± 10% of the measured values from the original test site.
Destination Final Test Site Correlation	Send 3,000 tested parts to the destination test site. The results need 100% correlation to continue the release flow.
Destination Final Test Site Cross Correlation	Run 33 untested devices from the destination test site with same FT program; keep the good devices and rejects separate by bins and send all devices to the original test site for correlation. Re-test those 33 devices from destination test site bin- by-bin to the same FT program for correlation. The yield difference should be within 0.1% and bin-to-bin difference should be within 0.1%

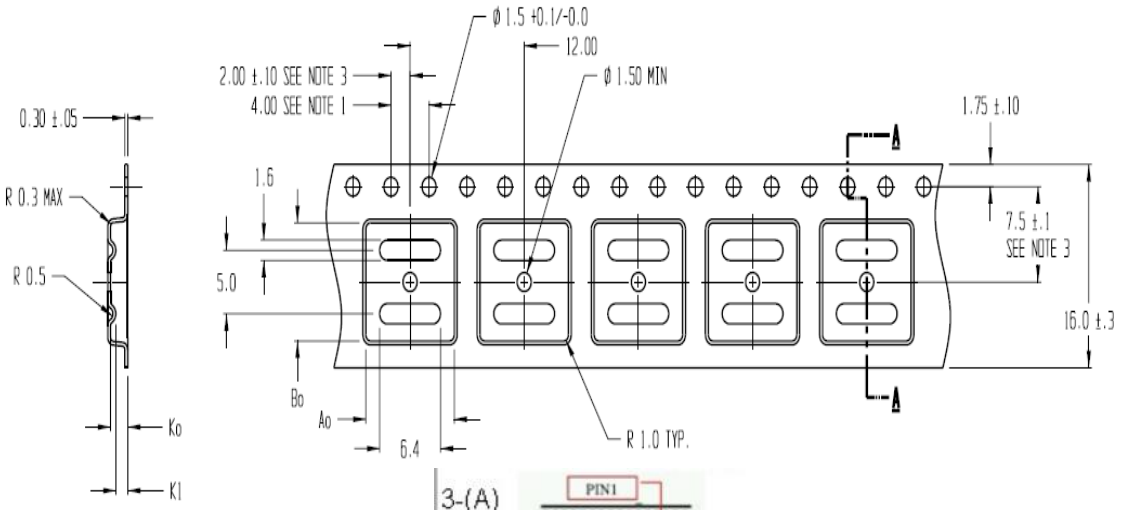
CCB 6142
Pre and Post Change Summary
PCN #: JAON-09HVKT693

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

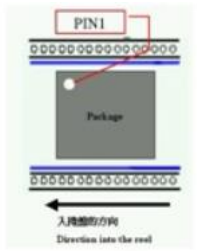


Tape and Reel – Carrier Tape

ASE9

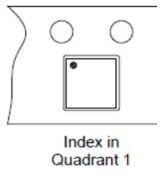


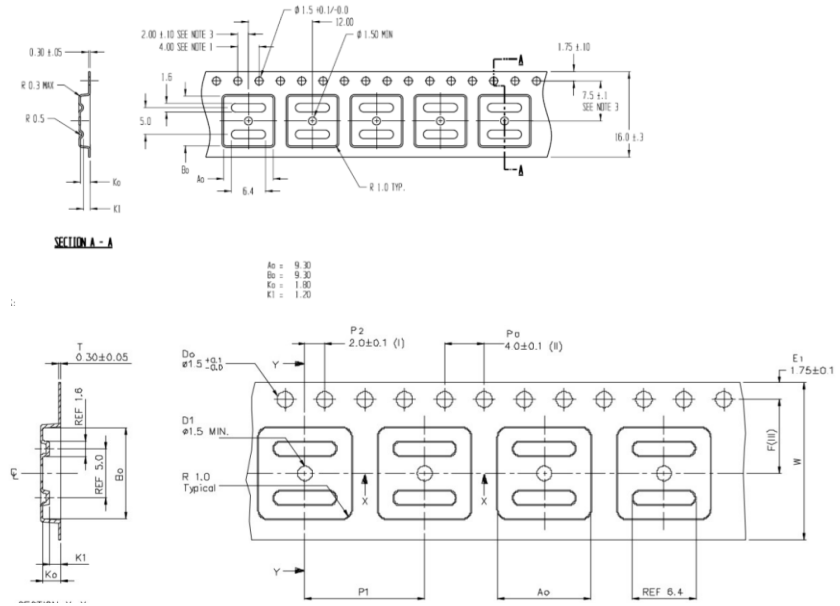
3-(A)



Pin 1 Orientation
Quadrant 1

MPHL





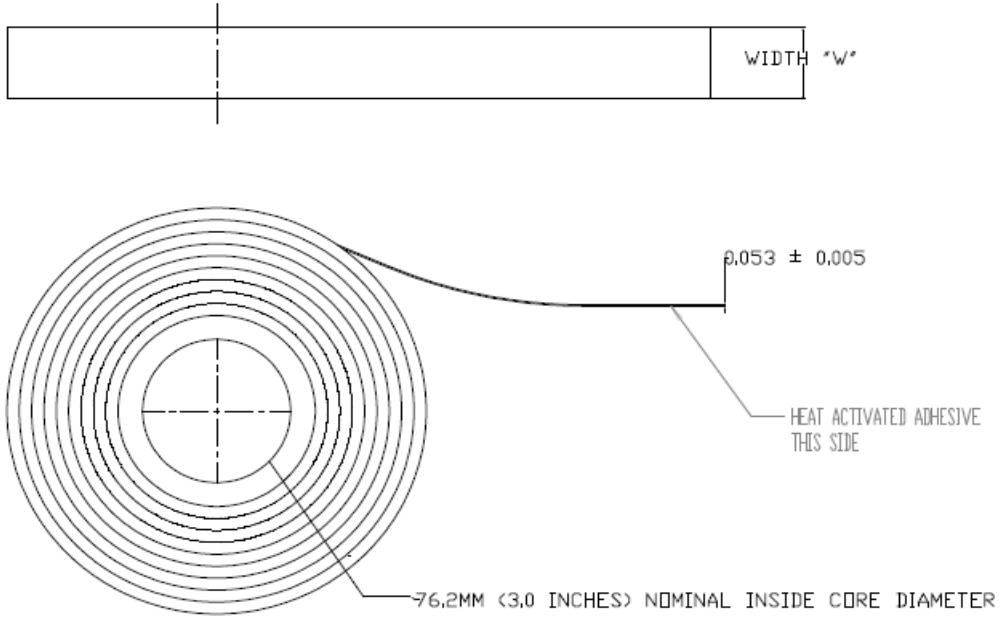
Pin 1 Orientation
Quadrant 1

Plant	Carrier Tape Supplier	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)	BQM
ASE9	Supplier 1	16	12	9.3	9.3	1.8	0.3	1000
MPHL	Supplier 1	**16**	**12**	**9.3**	**9.3**	**1.8**	**0.3**	**1000**
MPHL	Supplier 2	**16**	**12**	**9.3**	**9.3**	**1.8**	**0.3**	**1000**

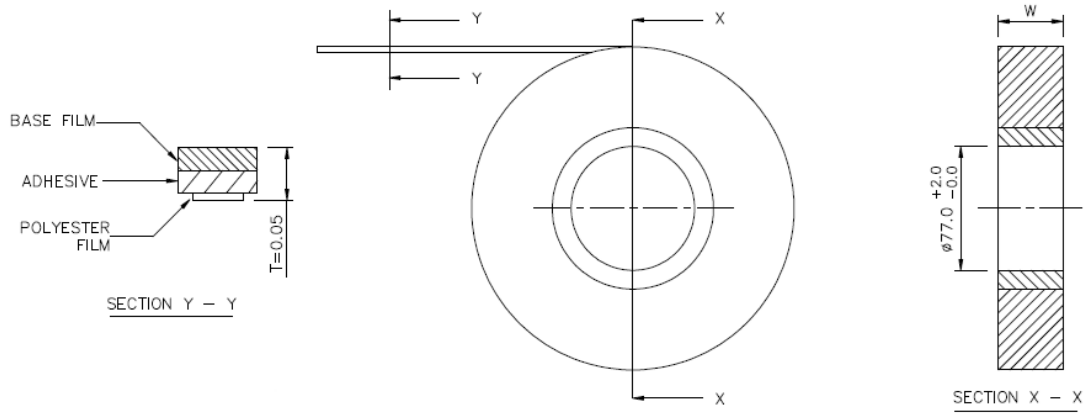
MICROCHIP

Tape and Reel – Cover Tape

ASE9



MPHL



Cover Tape PSA
W: 13.3 mm
P/N: 211893

Plant	Carrier Width	Cover tape Width "W" (mm)	Thickness (mm)	Sealing Methodology
ASE9	16	13.3	0.053	Heat
MPHL	**16**	**13.3**	**0.045 – 0.055**	**Pressure**

MICROCHIP

Tape and Reel - Reel

ASE9	MPHL
	

Plant	For Carrier Tape Width	Diameter	Hub	Color
ASE9	16	330	102	WHITE
MPHL	**16**	**330**	**100**	**WHITE**

MICROCHIP

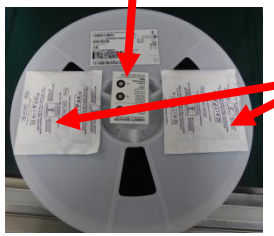
Tape and Reel – Packing Method

ASE9

1

LABEL

HIC



Desiccant X2

2

1st Sealing Area (upper 2st solid line)

Dry pack bag hole direction

MBB inner box label

3

Cardboard

Bubble Wrap

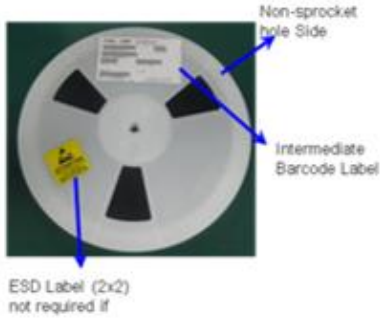
4

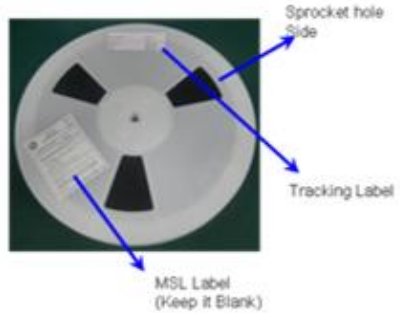
MSID sticker

Inner Box Label

2D label

MPHL





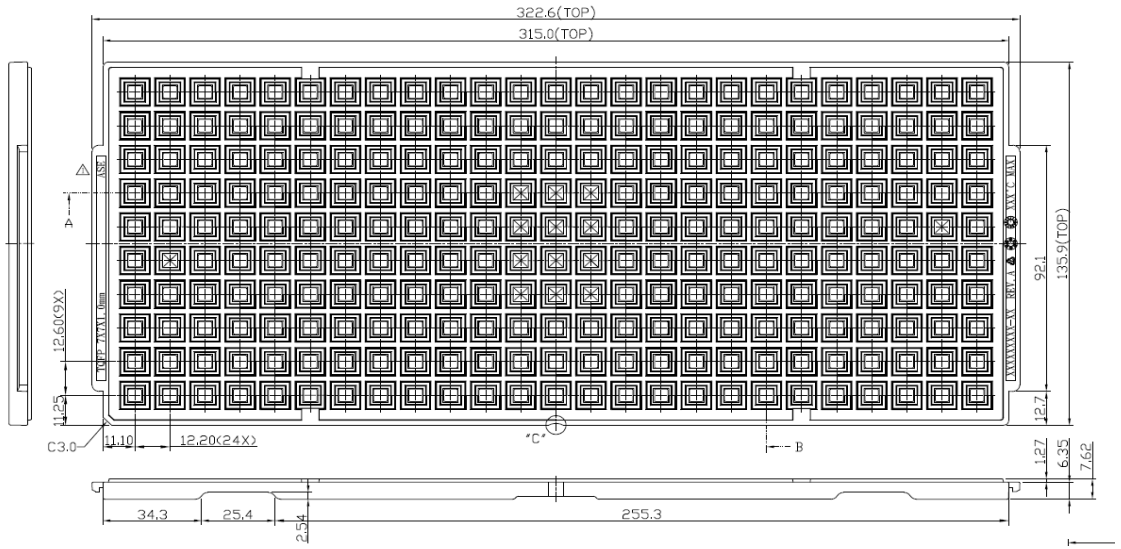
Label Placement at Box

Bubble Sheet

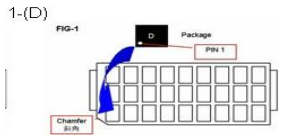
MICROCHIP

TRAY

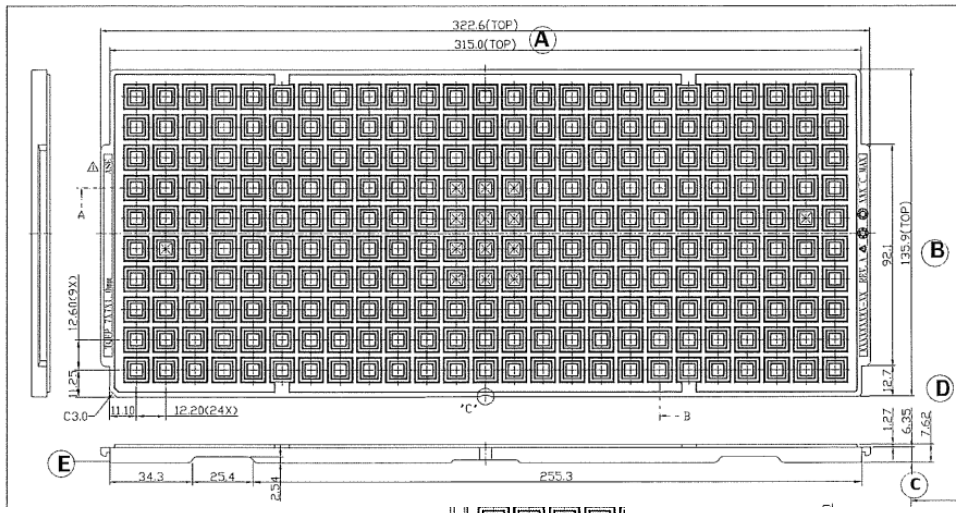
ASE9



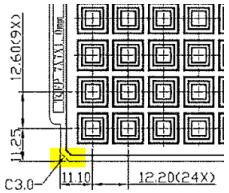
Pin 1 Orientation
1D



MPHL



Pin 1 Orientation
Near CHAMFER SIDE



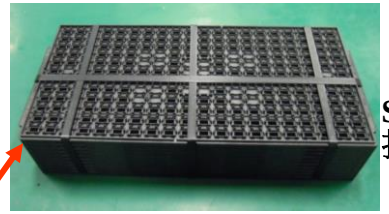
Plant	Length – max outer (mm)	Width – max outer (mm)	Thickness – max (mm)	Color	BQM
ASE9	315	135.9	7.62	BLACK	250
MPHL	**315**	**135.9**	**7.62**	**BLACK**	**250**

MICROCHIP

TRAY – Packing Method

ASE9

1



CHAMFER
斜角

10+1 stack
STRAPS (3S1L)
打包帶 (3短1長)

3

Bubble Wrap
粉紅氣泡布

HIC溼度指示卡

2

Chamfer
斜角

Desiccant 1 units x 2
1單位乾燥劑 x2

MSID sticker
MSID 標籤

4

inner box Label
真空袋標籤

MBB
真空袋

膠帶
Tape

Tray Inner
Box Label
內盒標籤

ASET small
bar code
ASET2維小標
籤

MPHL

Max: 10 full trays + 1 empty tray cover
PP Strapping: 3 crosswise & 1 lengthwise

MICROCHIP