



Product Change Notification / NTDO-21AZXP130

Date:

03-Jul-2023

Product Category:

32-bit Microcontrollers, Smart Energy SOC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6142.001 Final Notice: Qualification of MPHL as an additional final test site for ATM90E32AS-AU-Y, ATM90E32AS-AU-R and SWF2L30A-AU-R catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

Affected CPNs:

[NTDO-21AZXP130_Affected_CPN_07032023.pdf](#)

[NTDO-21AZXP130_Affected_CPN_07032023.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 MPHL as an additional final test site for ATM90E32AS-AU-Y, ATM90E32AS-AU-R and SWF2L30A-AU-R catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

Pre and Post Change Summary:

Implementation Date												
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Method to Identify Change:Traceability code

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

Revision History:March 22, 2023: Issued initial notification.

July 3, 2023: Issued final notification. Attached Qualification Report. Provided estimated first ship date to be on July 31, 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_NTDO-21AZXP130_Qualification Report Summary.pdf](#)
[PCN_NTDO-21AZXP130_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.

NTDO-21AZXP130 - CCB 6142.001 Final Notice: Qualification of MPHL as an additional final test site for ATM90E32AS-AU-Y, ATM90E32AS-AU-R and SWF2L30A-AU-R catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

Affected Catalog Part Numbers (CPN)

ATM90E32AS-AU-Y

ATM90E32AS-AU-R

SWF2L30A-AU-R



QUALIFICATION REPORT SUMMARY

PCN#: NTDO-21AZXP130

**Date:
June 27, 2023**

**Qualification of MPHL as an additional final test site
for ATM90E32AS-AU-Y, ATM90E32AS-AU-R and
SWF2L30A-AU-R catalog part numbers (CPN) available
in 48L TQFP (7x7x1.0 mm) package.**

Purpose: Qualification of MPHL as an additional final test site for ATM90E32AS-AU-Y, ATM90E32AS-AU-R and SWF2L30A-AU-R catalog part numbers (CPN) available in 48L TQFP (7x7x1.0 mm) package.

CCB#: 6142.001

Test /Evaluation	Test Condition/Parameters	Result
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.	Passed
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.	Passed
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 $\pm 10\%$ of the measured values from the original test site.	Passed
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.	Passed
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%	Passed

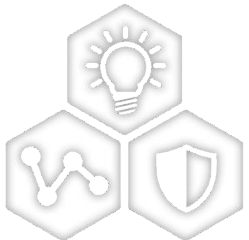
CCB 6142.001

Pre and Post Change Summary

PCN #: NTDO-21AZXP130



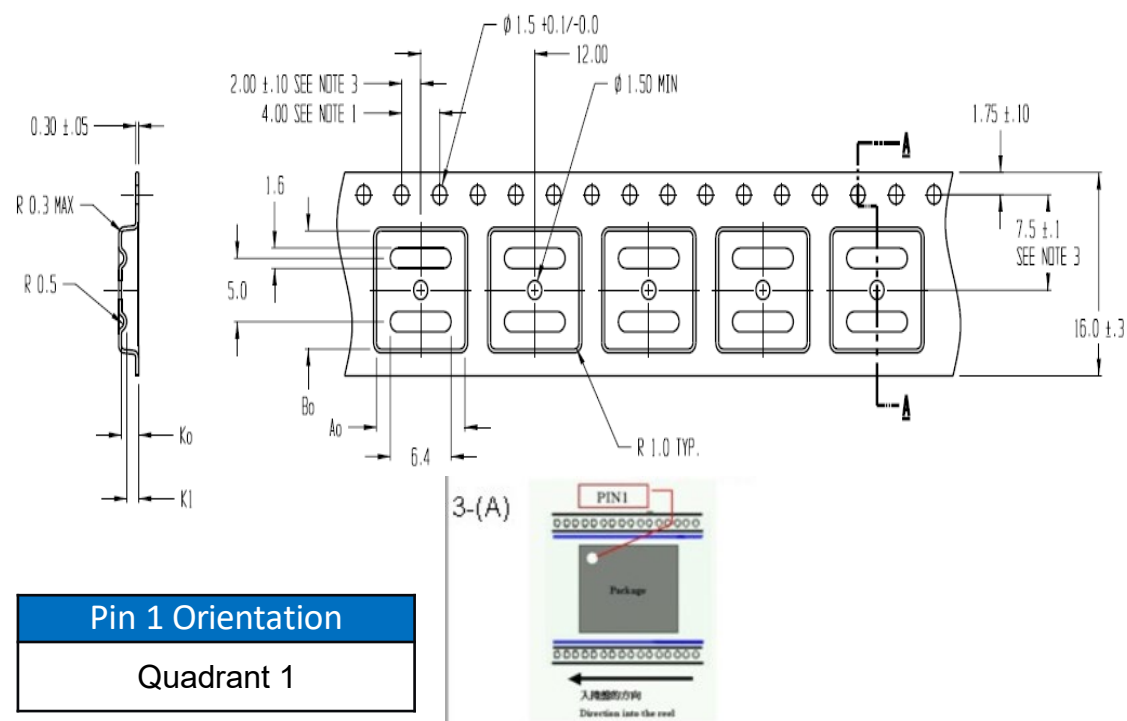
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



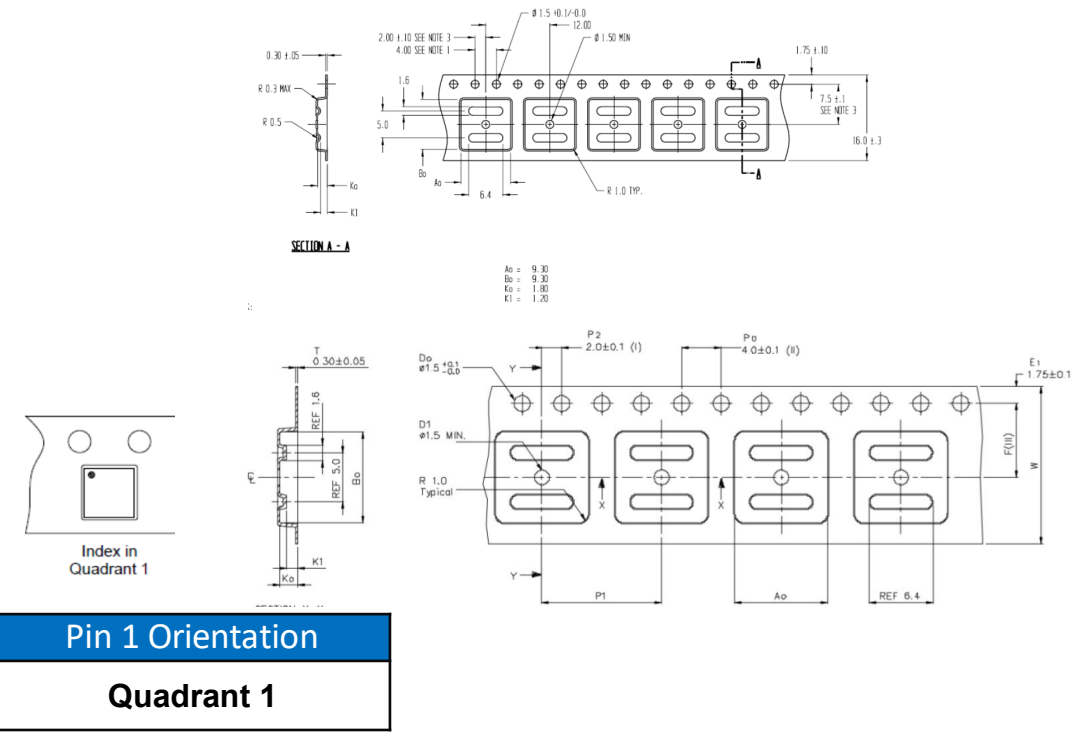
SMART | CONNECTED | SECURE

Tape and Reel – Carrier Tape

ASE9



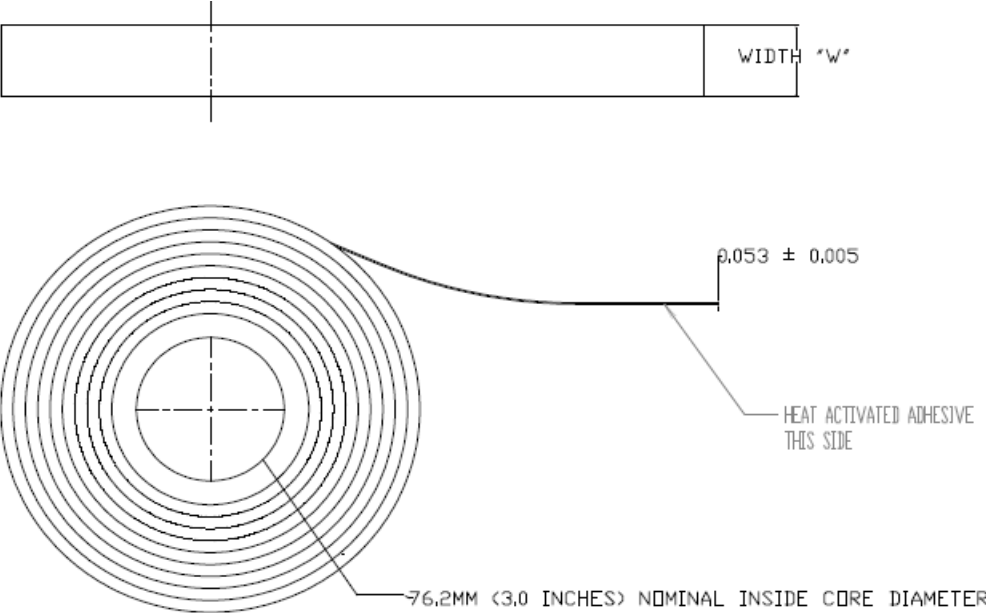
MPHL



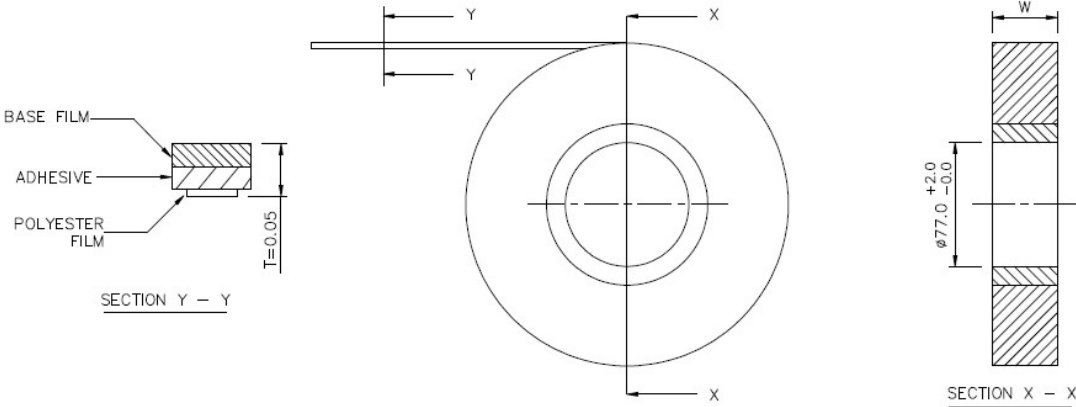
Plant	Carrier Tape Supplier	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)	BQM
ASE9	Supplier 1	16	12	9.3	9.3	1.8	0.3	1000
MPHL	Supplier 1	16	12	9.3	9.3	1.8	0.3	1000
MPHL	Supplier 2	16	12	9.3	9.3	1.8	0.3	1000

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

Tape and Reel - Reel

ASE9



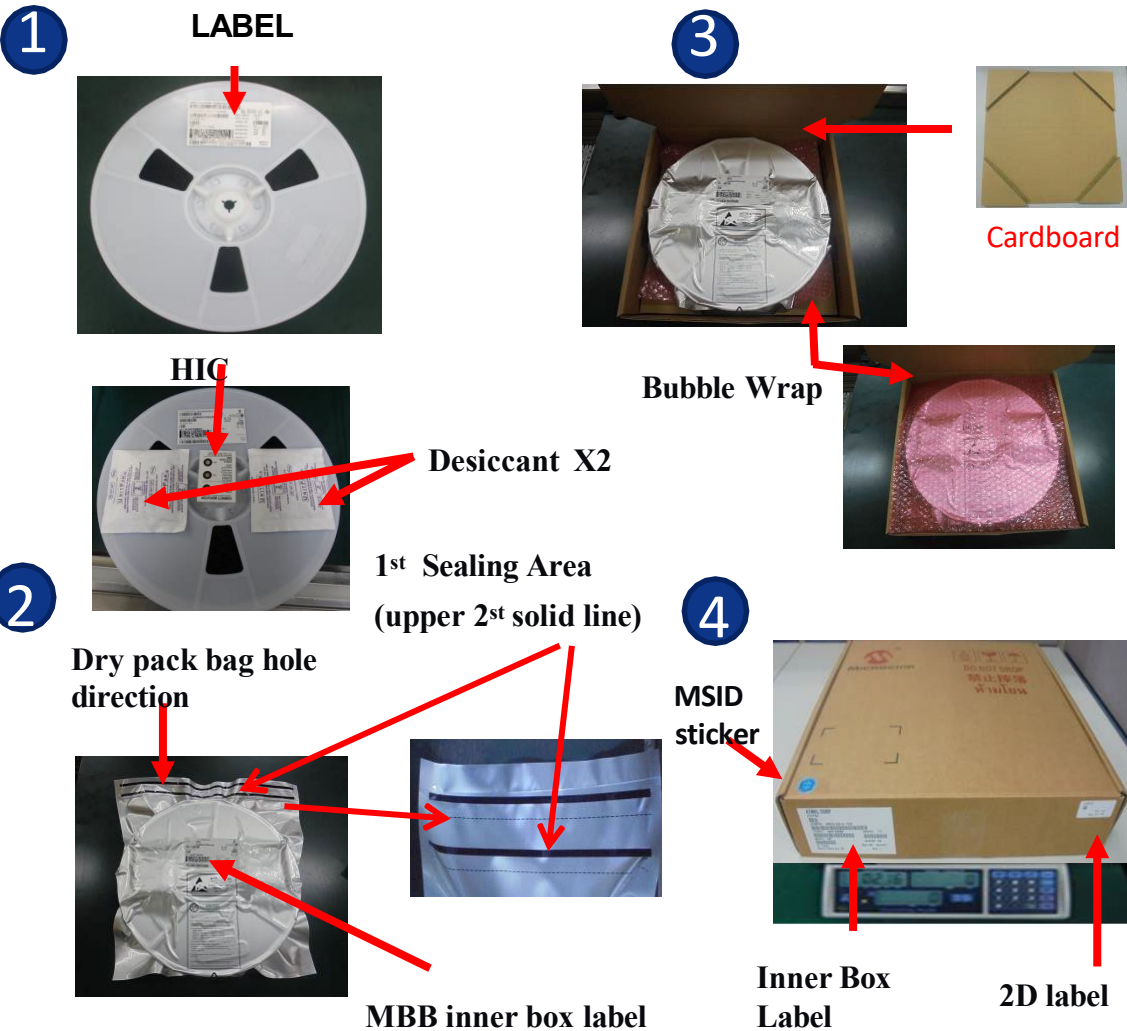
MPHL



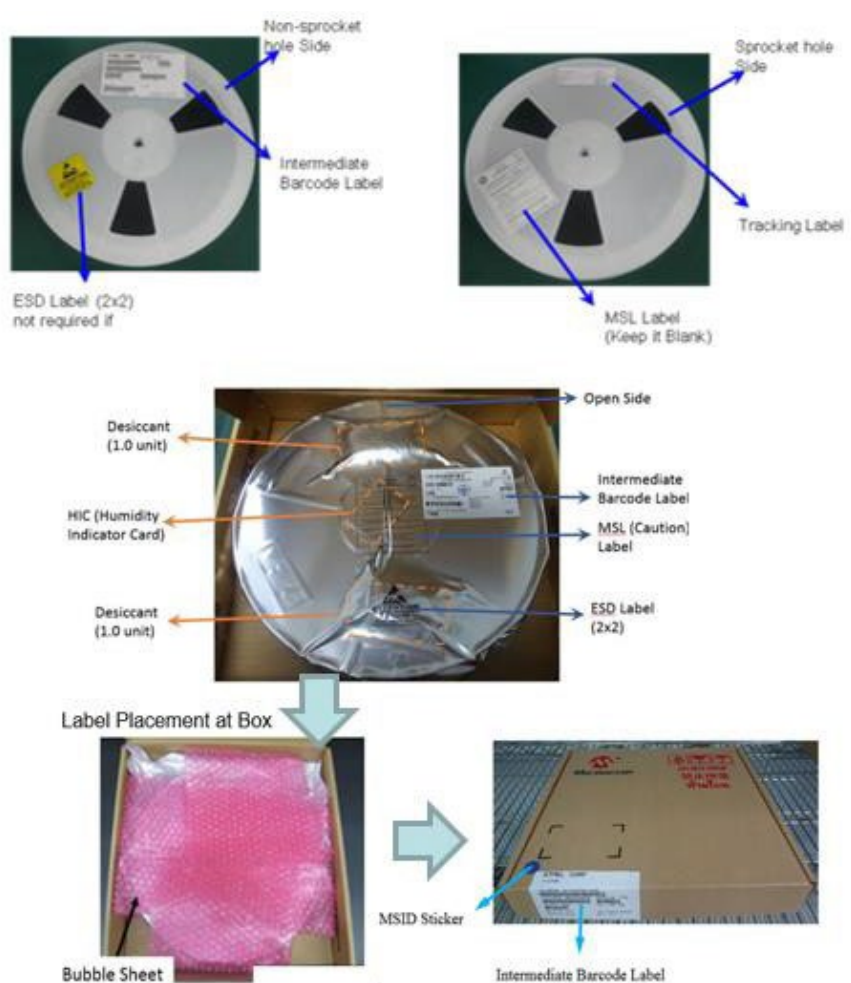
Plant	For Carrier Tape Width	Diameter	Hub	Color
ASE9	16	330	102	WHITE
MPHL	16	330	100	WHITE

Tape and Reel – Packing Method

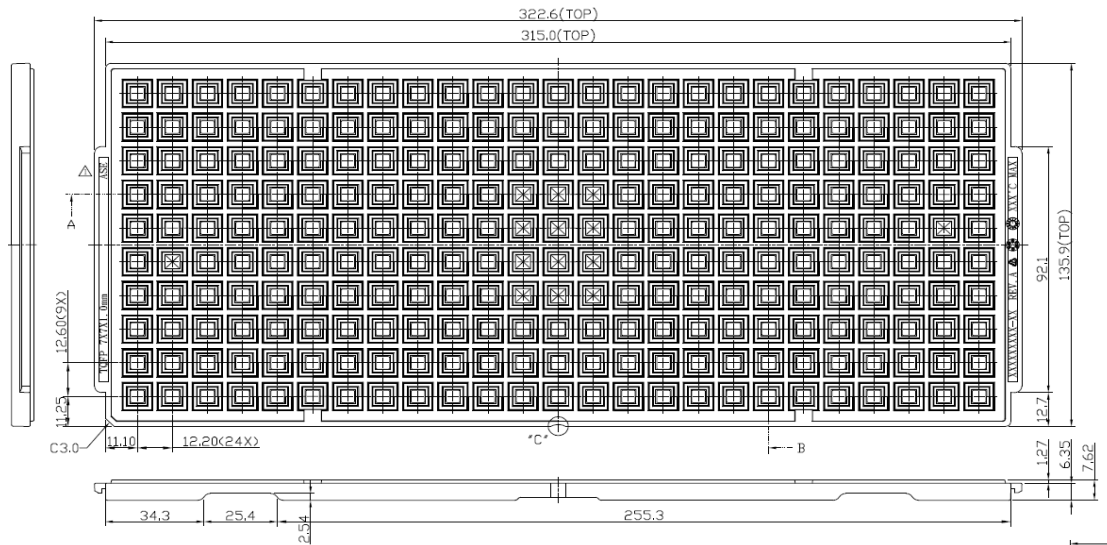
ASE9



MPHL

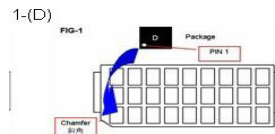


ASE9

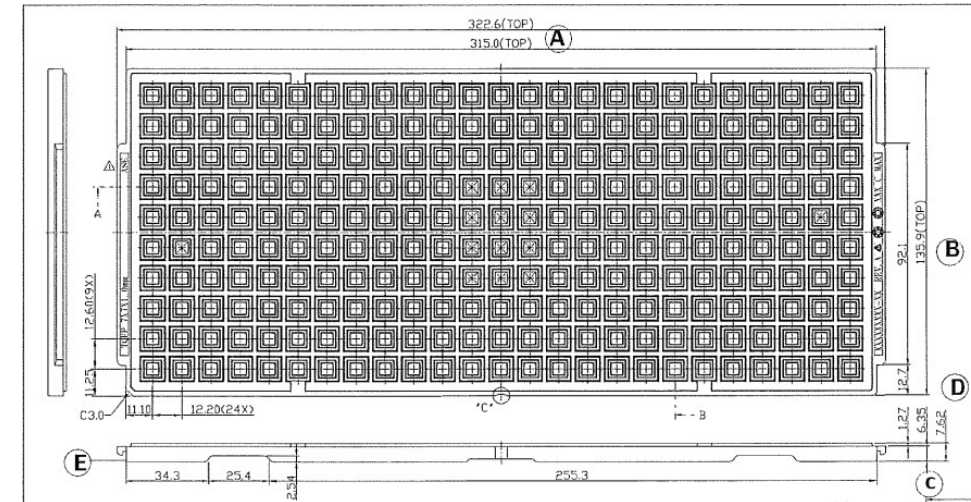


Pin 1 Orientation

1D

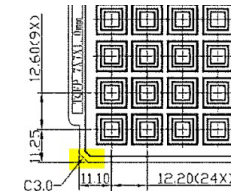


MPHL



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

TRAY – Packing Method

ASE9

1

10+1 stack
STRAPS (3S1L)
打包帶 (3短1長)

CHAMFER
斜角

2

HIC溼度指示卡

Desiccant 1 units x 2
1單位乾燥劑x2

inner box Label
真空袋標籤

Chamfer
斜角

MBB
真空袋

3

Bubble Wrap
粉紅氣泡布

4

MSID sticker
MSID 標籤

Tray Inner
Box Label
內盒標籤

ASET small
bar code
ASET2維小標
籤

膠帶
Tape

MPHL

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

Open Side of Box

Bubble Sheet

Desiccant (1.0 unit)

HIC (Humidity Indicator Card)

Desiccant (1.0 unit)

Open Side

Intermediate Barcode Label

MSL (Caution) Label

ESD Label (2x2)

Open Side of Box

Intermediate Label