



Product Change Notification / ASER-23WWAI681

Date:

28-Jul-2020

Product Category:

Memory

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4235 Final Notice: Qualification of MMT as a new final test site for selected Atmel AT27C/BV/LVxxxPU/JUxxx products

Affected CPNs:

[ASER-23WWAI681_Affected_CPN_07282020.pdf](#)

[ASER-23WWAI681_Affected_CPN_07282020.csv](#)

Notification Text:

PCN Status:Final notification

PCN Type:Manufacturing Change

Microchip Parts Affected:Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:Qualification of MMT as a new final test site for selected Atmel AT27C/BV/LVxxxPU/JUxxx products.

Pre Change:Tested at MPHIL final test site.

Post Change:Tested at MMT final test site.

Pre and Post Change Summary:

	Pre Change	Post Change
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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:**June 25, 2020:** Issued initial notification.**July 14, 2020:** Issued final notification. Attached the qualification report. Provided estimated first ship date to be on August 17, 2020**July 28, 2020:** Reissued final notification. Reattached the qualification report. Corrected the pin orientation within the PCN letter. Corrected titles contained in page 5 and 6 of the Pre and Post Change document.

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-23WWAI681_Pre and Post Change Summary.pdf](#)
[PCN_ASER-23WWAI681_Qual_Report.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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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.



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN#: ASER-23WWAI681

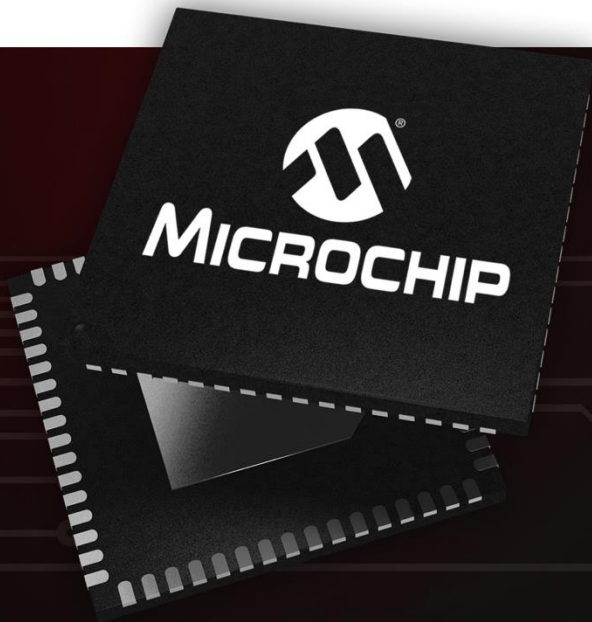
**Date:
April 29, 2020**

**Qualification of MMT as a new final test site for selected
Atmel AT27C/BV/LVxxxPU/JUxxx products.**

Purpose: Qualification of MMT as a new final test site for selected
Atmel AT27C/BV/LVxxxPU/JUxxx products.

CCB No.: 4235

Test / Evaluation	Test Conditions / Parameters
Datalog/Bin Comparison	• Compare overall yield, speed distribution, test bin pass/fail results. • Accept if all match or justify the differences
Correlation Lot Report	• Yield at each step and reject analysis between systems. Min 3K units are tested for each program/density conversion we perform. • Accept on yield match within 1%



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Mixed-Signal, Analog & Flash-IP Solutions



PCN # ASER-23WWAI681
CCB 4235_Pre and Post Change Summary

Affected Parts List

Packing Media: Tube

CPN	Lead Count	Pkg Type	Base Quantity Multiple	Packing Media
AT27BV256-70JU	32.00	PLCC	32.00	Tube
AT27LV256A-90JU	32.00	PLCC	32.00	Tube
AT27LV512A-90JU	32.00	PLCC	32.00	Tube
AT27BV010-90JU	32.00	PLCC	32.00	Tube
AT27LV010A-70JU	32.00	PLCC	32.00	Tube
AT27LV020A-12JU	32.00	PLCC	32.00	Tube
AT27C256R-45JU	32.00	PLCC	32.00	Tube
AT27C256R-70JU	32.00	PLCC	32.00	Tube
AT27C256R-70JU-306	32.00	PLCC	32.00	Tube
AT27C256R-45PU	28.00	PDIP	14.00	Tube
AT27C256R-70PU	28.00	PDIP	14.00	Tube
AT27C512R-45JU	32.00	PLCC	32.00	Tube
AT27C512R-70JU	32.00	PLCC	32.00	Tube
AT27C512R-45PU	28.00	PDIP	14.00	Tube
AT27C512R-70PU	28.00	PDIP	14.00	Tube
AT27C1024-45PU	40.00	PDIP	10.00	Tube
AT27C1024-70PU	40.00	PDIP	10.00	Tube
AT27C2048-90PU	40.00	PDIP	10.00	Tube

CPN	Lead Count	Pkg Type	Base Quantity Multiple	Packing Media
AT27C020-55PU	32.00	PDIP	12.00	Tube
AT27C020-90PU	32.00	PDIP	12.00	Tube
AT27C020-55JU	32.00	PLCC	32.00	Tube
AT27C020-90JU	32.00	PLCC	32.00	Tube
AT27C4096-90PU	40.00	PDIP	10.00	Tube
AT27C4096-55PU	40.00	PDIP	10.00	Tube
AT27C040-70PU	32.00	PDIP	12.00	Tube
AT27C040-90PU	32.00	PDIP	12.00	Tube
AT27C040-70JU	32.00	PLCC	32.00	Tube
AT27C040-90JU	32.00	PLCC	32.00	Tube
AT27C080-90PU	32.00	PDIP	12.00	Tube
AT27C080-90PU	32.00	PDIP	12.00	Tube
AT27C080-90JU	32.00	PLCC	32.00	Tube
AT27C080-90JU	32.00	PLCC	32.00	Tube
AT27C010-70PU	32.00	PDIP	12.00	Tube
AT27C010-45JU	32.00	PLCC	32.00	Tube
AT27C010-70JU	32.00	PLCC	32.00	Tube
AT27LV040A-90JU	32.00	PLCC	32.00	Tube

TUBE PACKING: PLCC Package

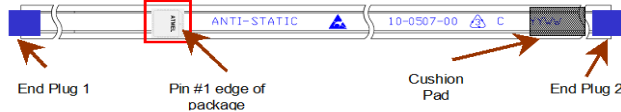
32L PLCC Tube Packing: MPHL

1. Pin 1 Orientation

For PLCC 20/28/44L



For PLCC 32L



2. Tube Bundling

PLCC 32 – 30 tubes per bag
PLCC 44 – 20 tubes per bag



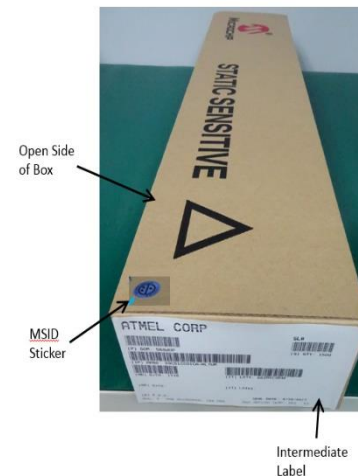
3. Moisture Barrier Bag Labels



4. Wrap bag with bubble pack



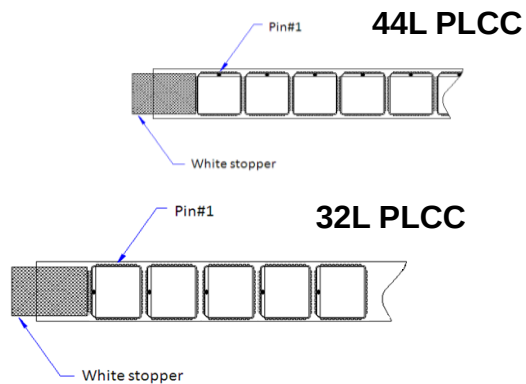
5. Tube Box Packing



TUBE PACKING: PLCC Package

32L PLCC Tube Packing : MMT

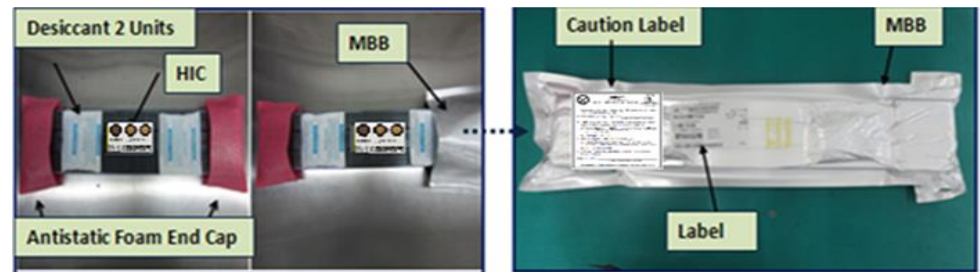
1. Pin 1 Orientation



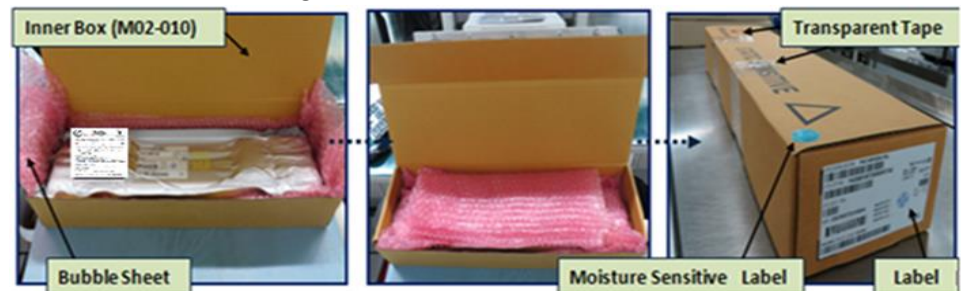
2. Tube Bundling

PLCC 32 – 30 tubes per bag
PLCC 44 – 20 tubes per bag

3. Moisture Barrier Bag Labels



4. Tube Box Packing

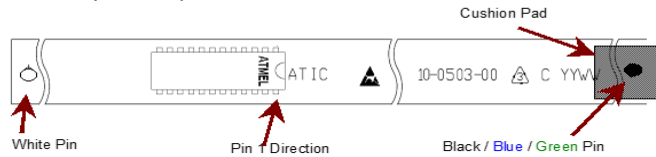


TUBE PACKING: PDIP Package

28L/32L/40L PDIP Tube Packing: MPHL

1. Pin 1 Orientation

For PDIP (600 mils)



2. Tube Bundling

PDIP 32 – 40 Tubes/Bag

PDIP 40 – 24 Tubes/Bag

3. Shielding Bag Labels



4. Wrap bag with bubble pack



5. Tube Box Packing

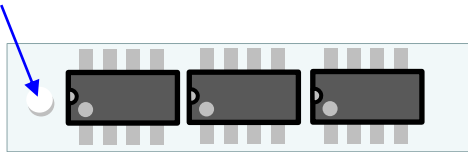


TUBE PACKING: PDIP Package

32L PDIP Tube Packing: MMT

1. Pin 1 Orientation

Pin 1 Side
White End Pin



2. Tube Bundling

PDIP 28 – 24 Tubes/Bag

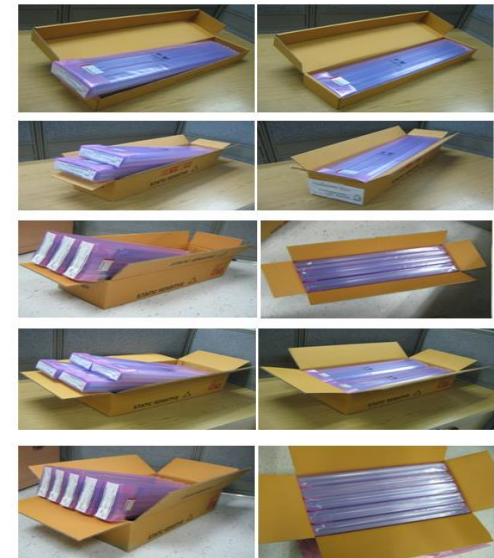
PDIP 32 – 40 Tubes/Bag

PDIP 40 – 24 Tubes/Bag

3. Antistatic Pink bag



4. Tube Outer Box Packing Packing for PDIP tubes (Sample)



Affected Parts List

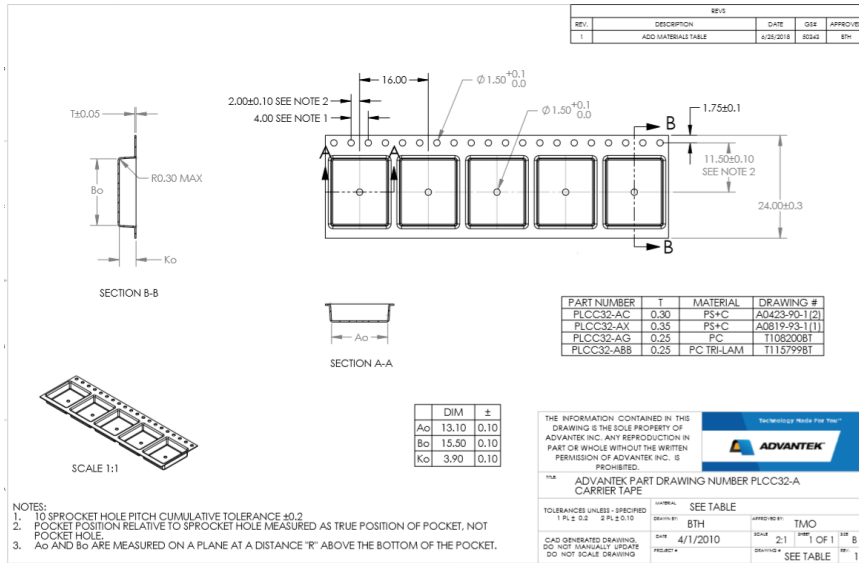
Packing Media: T/R

CPN	Lead Count	Pkg Type	Base Quantity Multiple	Packing Media
AT27BV256-70JU-T	32.00	PLCC	750.00	T/R
AT27LV256A-90JU-T	32.00	PLCC	750.00	T/R
AT27LV512A-90JU-T	32.00	PLCC	750.00	T/R
AT27BV010-90JU-T	32.00	PLCC	750.00	T/R
AT27LV010A-70JU-T	32.00	PLCC	750.00	T/R
AT27LV020A-12JU-T	32.00	PLCC	750.00	T/R
AT27C256R-45JU-T	32.00	PLCC	750.00	T/R
AT27C256R-70JU-T	32.00	PLCC	750.00	T/R
AT27C512R-45JU-T	32.00	PLCC	750.00	T/R

CPN	Lead Count	Pkg Type	Base Quantity Multiple	Packing Media
AT27C512R-70JU-T	32.00	PLCC	750.00	T/R
AT27C020-55JU-T	32.00	PLCC	750.00	T/R
AT27C020-90JU-T	32.00	PLCC	750.00	T/R
AT27C040-70JU-T	32.00	PLCC	750.00	T/R
AT27C040-90JU-T	32.00	PLCC	750.00	T/R
AT27C080-90JU-T	32.00	PLCC	750.00	T/R
AT27C010-45JU-T	32.00	PLCC	750.00	T/R
AT27C010-70JU-T	32.00	PLCC	750.00	T/R
AT27LV040A-90JU-T	32.00	PLCC	750.00	T/R

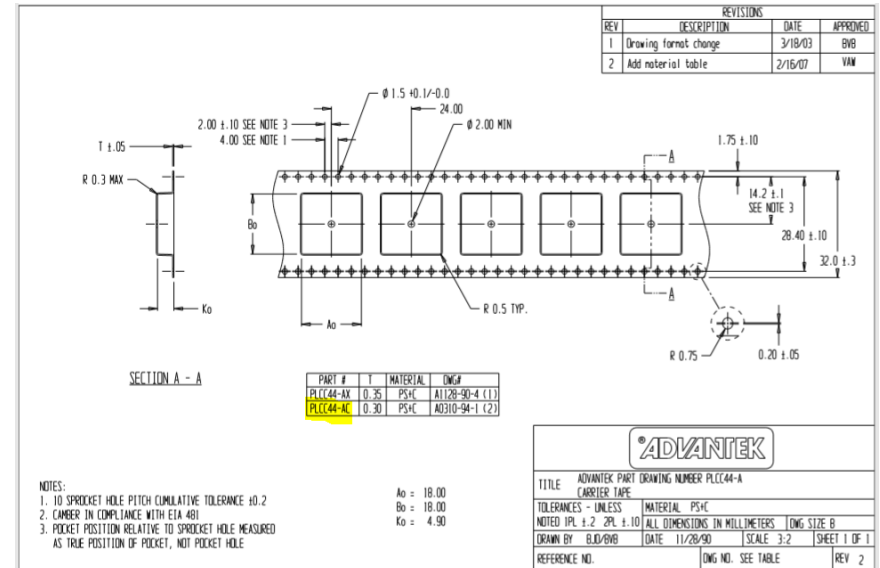
MPHL CARRIER TAPE

PLCC 32 CARRIER TAPE



Supplier	Mfg. Part No.	W (mm.) ± 0.3 or Specific	P (mm.) ± 0.1 or Specific	$A_0 \pm 0.1$ or Specific	$B_0 \pm 0.1$ or Specific	$K_0 \pm 0.1$ or Specific	Thickness
Advantek	PLCC32-AC170.P1	24	16	13.10/-0.1	15.50+/-0.1	3.90+/-0.10	-

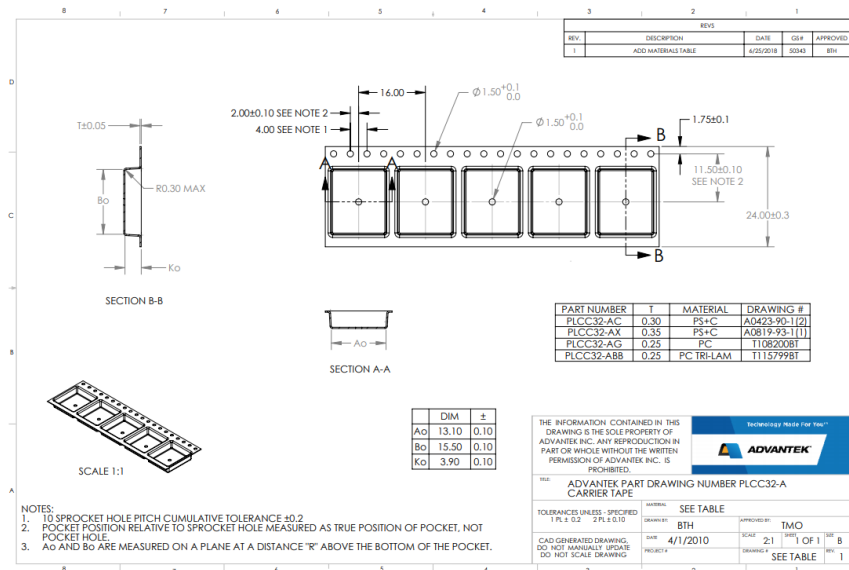
PLCC 44 CARRIER TAPE



Supplier	Mfg. Part No.	W (mm.) ± 0.3 or Specific	P (mm.) ± 0.1 or Specific	$A_0 \pm 0.1$ or Specific	$B_0 \pm 0.1$ or Specific	$K_0 \pm 0.1$ or Specific	Thickness
Advantek	PLCC44-AC88.0R5	32	24	18+/-0.1	18+/-0.1	4.9+/-0.1	-

MMT CARRIER TAPE

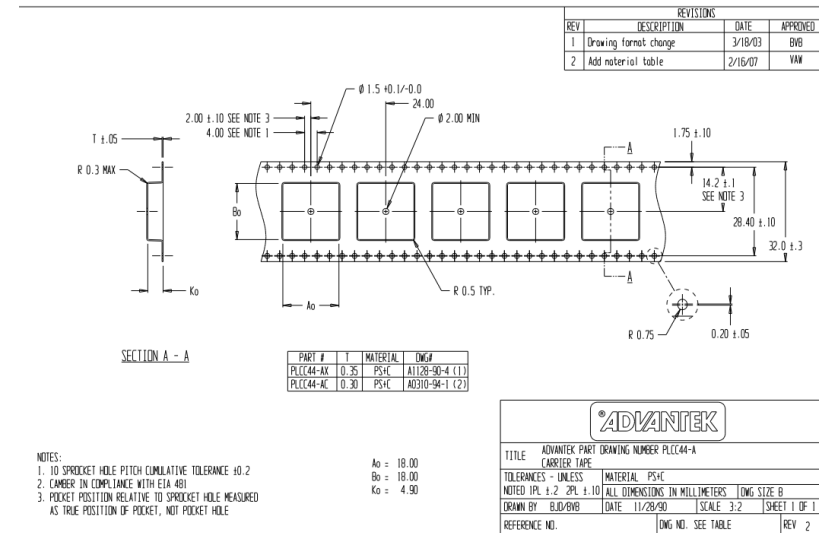
PLCC 32 CARRIER TAPE



Unit in mm

Supplier	Mfg. Part No.	W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A_0 ±0.1 or Specific	B_0 ±0.1 or Specific	K_0 ±0.1 or Specific	Thickness
Advantek	PLCC32-AC170.M1	24	16	13.10/-0.1	15.50+/-0.1	3.90+/-0.10	0.30 +/-0.05

PLCC 44 CARRIER TAPE

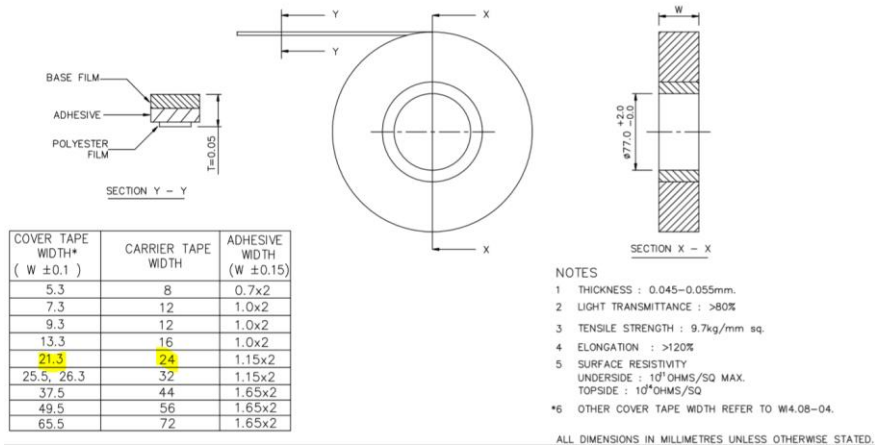


Unit in mm

Supplier	Mfg. Part No.	W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A_0 ±0.1 or Specific	B_0 ±0.1 or Specific	K_0 ±0.1 or Specific	Thickness
Advantek	PLCC44-AC88.0R5	32	24	18+/-0.1	18+/-0.1	4.9+/-0.1	0.30 +/-0.05

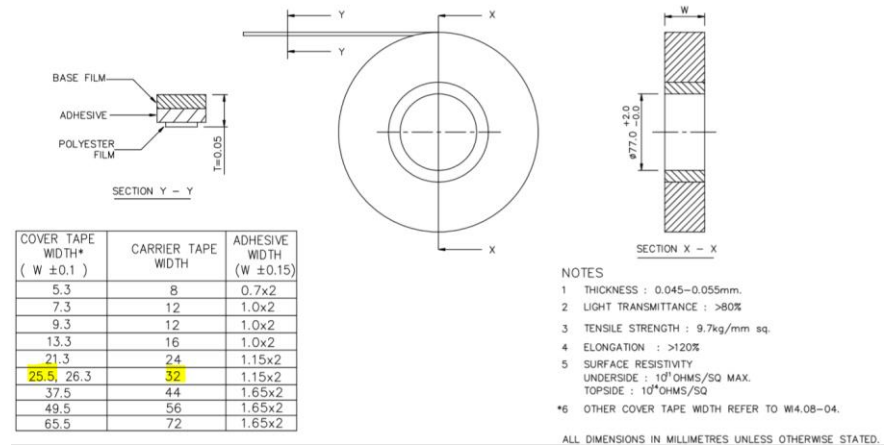
MPHL COVER TAPE

PLCC 32 COVER TAPE (Width: 24mm)



Carrier Width	Supplier	MCHP P/N	Supplier Part	Width "W" (mm)	Thickness (mm)	Sealing Mythology
24mm	CPak	211894	CP58 PSA	21.3 +/-0.1	0.050 ±0.010	Pressure Seal

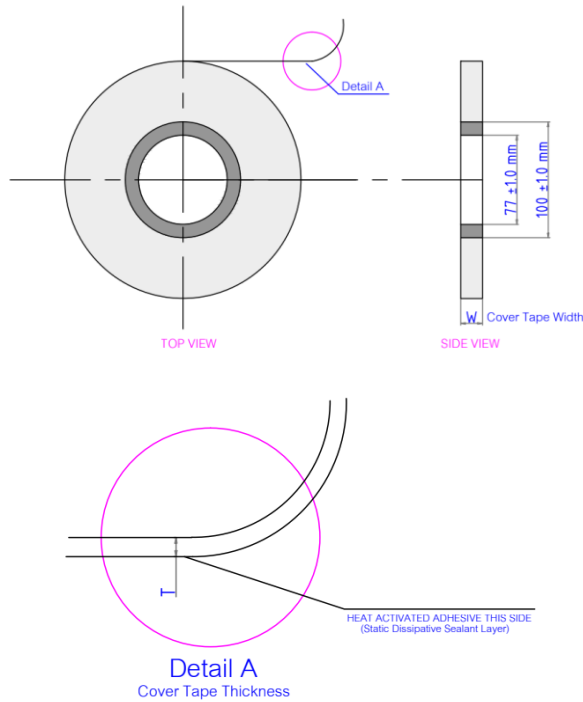
PLCC 44 COVER TAPE (Width: 32mm)



Carrier Width	Supplier	MCHP P/N	Supplier Part	Width "W" (mm)	Thickness (mm)	Sealing Mythology
32mm	CPak	211887	CP58 PSA	25.5 +/-0.1	0.050 ±0.010	Pressure Seal

MMT COVER TAPE

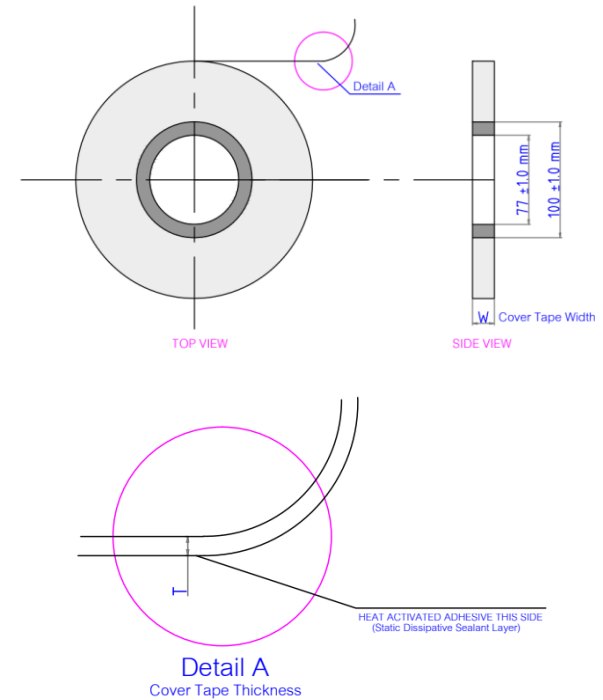
PLCC 32 COVER TAPE (Width: 24mm)



MTAL COVER_TAP
WG-B25-CV-001a.

Carrier Width	Supplier	MCHP P/N	Supplier Part	Width "W" (mm)	Thickness (mm)	Sealing Mythology
24mm	Sumitomo	22102002	CSL-Z7302	21.0 +/- 0.1	0.050 ±0.010	Heat Sealing

PLCC 44 COVER TAPE (Width: 32mm)



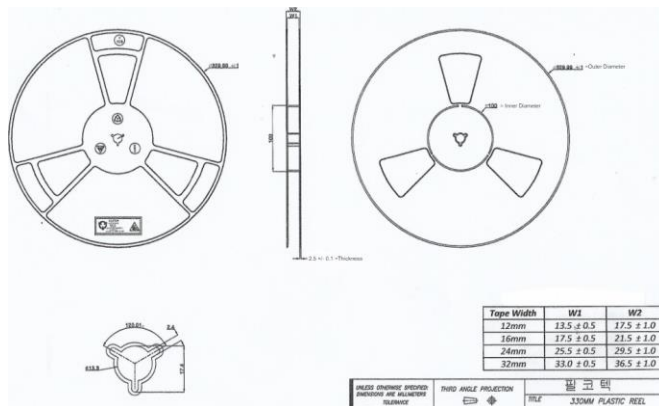
Carrier Width	Supplier	MCHP P/N	Supplier Part	Width "W" (mm)	Thickness (mm)	Sealing Mythology
32mm	Sumitomo	22104401	CSL-Z7302	25.5 +/- 0.1	0.050 ±0.010	Heat Sealing

Added by Satsawat

MPHL PLASTIC REEL

PLASTIC REEL: WIDTH 24mm

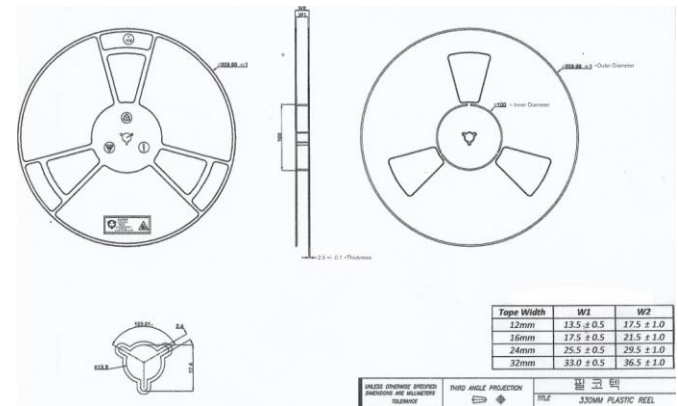
PLCC 32L



Width	MCHP P/N	Supplier Part	Hub	Color
24mm	211696	N/A	4inch (100mm)	White

PLASTIC REEL: WIDTH 32mm

PLCC 44L

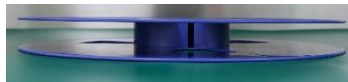
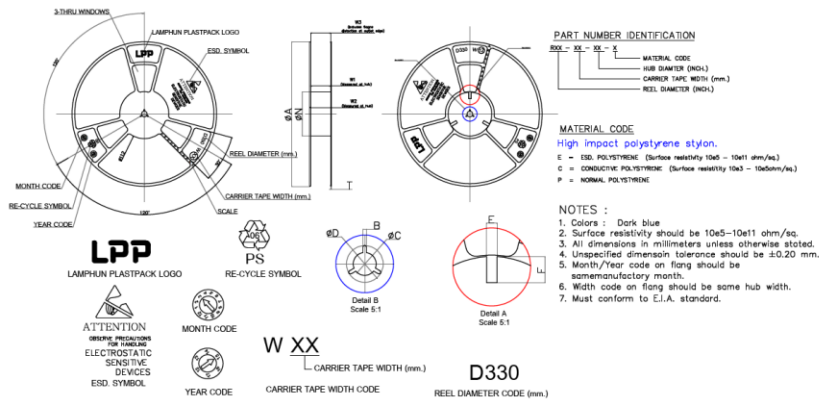


Width	MCHP P/N	Supplier Part	Hub	Color
32mm	211697	N/A	4inch (100mm)	White

MMT MPHL PLASTIC REEL

PLASTIC REEL: WIDTH 24mm

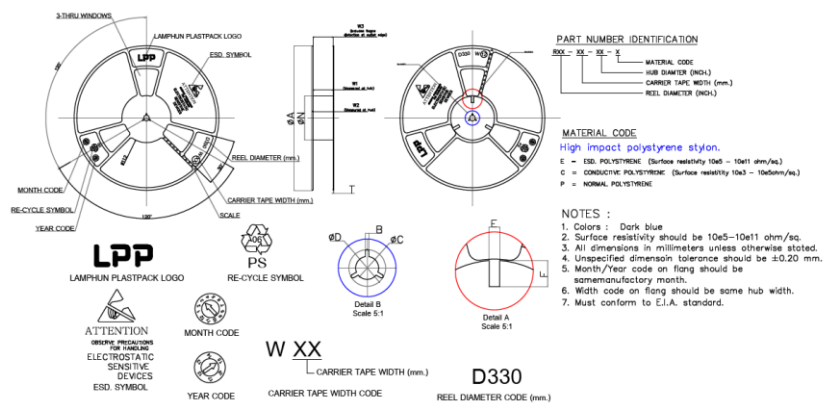
PLCC 32L



Width	MCHP P/N	Supplier Part	Hub	Color
24mm	23000024	R13-24-04-E	4inch (100mm)	Dark Blue

PLASTIC REEL: WIDTH 32mm

PLCC 44L



Width	MCHP P/N	Supplier Part	Hub	Color
32mm	23000023	R13-32-04-E	4inch (100mm)	Dark Blue

Plastic Reel (Width 24 mm)

Description	MPHIL	MMT
Color	White	Dark blue
Diameter	329.99 +/- 1.0	330 +/- 2.0
Hub	100	100 +/- 2.0
Width	25.5 +/- 0.5	24.4 +/- 2.0

Plastic Reel (Width 32 mm)

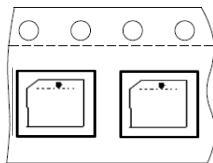
Description	MPHIL	MMT
Color	White	Dark blue
Diameter	329.99 +/- 1.0	330 +/- 2.0
Hub	100	100 +/- 2.0
Width	33 +/- 0.5	32.4 +/- 2.0

TAPE AND REEL PACKING PROCEDURE MPHL

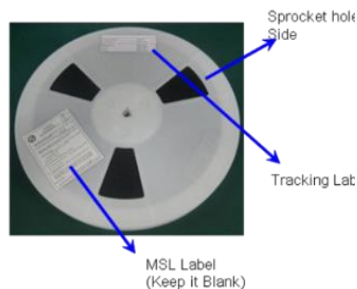
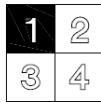
MSL 2 – T/R REEL DRY PACK PROCEDURE (Ref Spec# PI-35015)

Pin 1 Orientation

Quadrant 1



Carrier Tape



Label Placement at Box

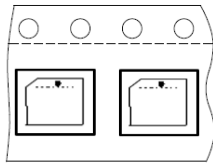


TAPE AND REEL PACKING PROCEDURE MMT

MSL 2 – T/R REEL DRY PACK PROCEDURE (Ref Spec# PI-24069)

Pin 1 Orientation

Quadrant 1



Carrier Tape



13" Reel for New MBB with Caution printing

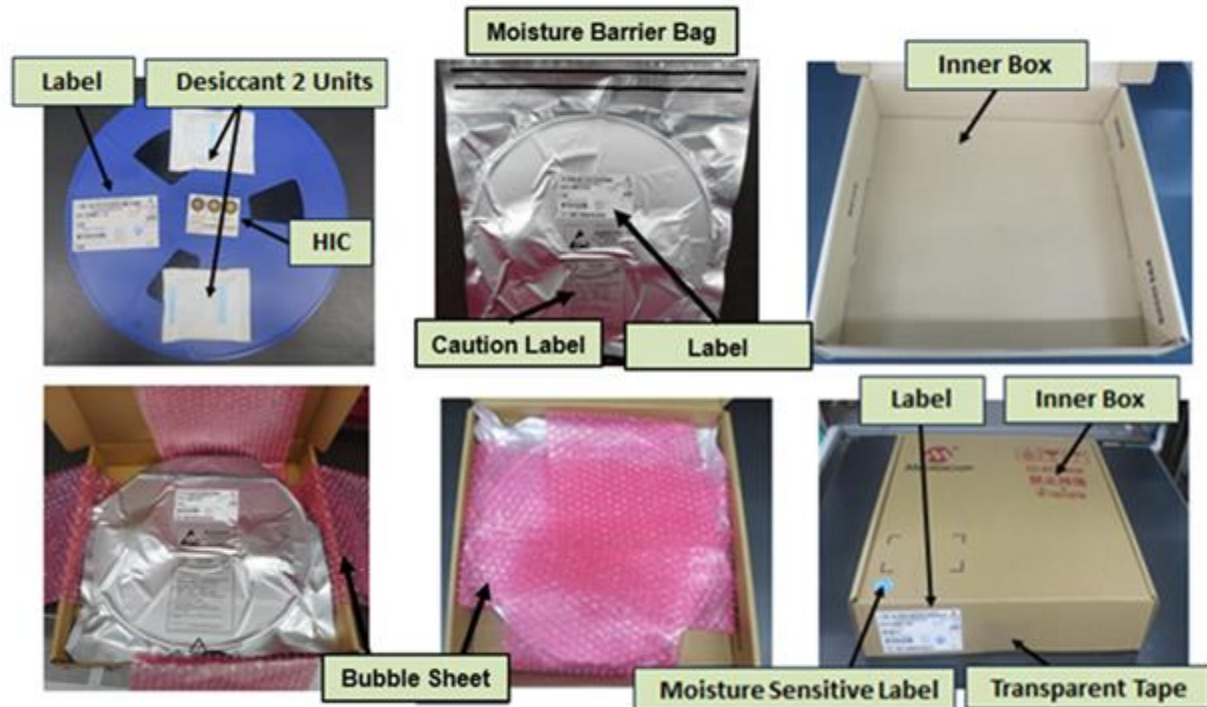


Figure 8.6.1B Dry pack for tape and reel

Affected Catalog Part Numbers (CPN)

AT27BV256-70JU
AT27LV256A-90JU
AT27BV256-70JU-T
AT27LV256A-90JU-T
AT27LV512A-90JU
AT27LV512A-90JU-T
AT27BV010-90JU
AT27LV010A-70JU
AT27BV010-90JU-T
AT27LV010A-70JU-T
AT27LV020A-12JU
AT27LV020A-12JU-T
AT27C256R-45JU
AT27C256R-70JU
AT27C256R-70JU-306
AT27C256R-45PU
AT27C256R-70PU
AT27C256R-45JU-T
AT27C256R-70JU-T
AT27C512R-45JU
AT27C512R-70JU
AT27C512R-45PU
AT27C512R-70PU
AT27C512R-45JU-T
AT27C512R-70JU-T
AT27C1024-45PU
AT27C1024-70PU
AT27C2048-90PU
AT27C020-55PU
AT27C020-90PU
AT27C020-55JU
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AT27C020-55JU-T
AT27C020-90JU-T
AT27C4096-90PU
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AT27C040-70PU
AT27C040-90PU
AT27C040-70JU
AT27C040-90JU
AT27C040-70JU-T
AT27C040-90JU-T
AT27C080-90PU
AT27C080-90JU
AT27C080-90JU-T
AT27C010-70PU

AT27C010-45JU

AT27C010-70JU

AT27C010-45JU-T

AT27C010-70JU-T

AT27LV040A-90JU

AT27LV040A-90JU-T