

Product Change Notification / ASER-23WWAI681

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14-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_07142020.pdf ASER-23WWAI681_Affected_CPN_07142020.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 |
|-----------------|----------------------|-------------------------------|
| Final Test Site | Microchip Technology | Microchip Technology Thailand |

| | | Operations (Philippines) Corporation (MPHL) | (MMT) | | | |
|------------------------|------------------------------------|---|--|--|--|--|
| | Base Quantity Multiple (BQM) | Various. No | o BQM change. | | | |
| | Pin 1 Orientation | Quadrant 1 | Quadrant 1 | | | |
| | With Desiccant and HIC? | Yes | Yes | | | |
| Packing Media: | Carrier Tape Dimension | See pre and post | change comparison. | | | |
| Tape and Reel | Cover Tape Dimension | | nsional changes. change comparison. | | | |
| | Reel Dimension | Minor dimensional changes. See pre and post change comparison. | | | | |
| | Packaging Process | See pre and post change comparison. | | | | |
| | Base Quantity Multiple (BQM) | Various. No | o BQM change. | | | |
| Packing Media: Tube | Pin 1 Orientation | Pin 1 Toward White Pin | Pin 1 Toward Black/Blue/Green Pin | | | |
| Tube | Tube Dimensions | No dimens | sional changes | | | |
| | Plug Color | Clear | Clear | | | |
| | Packaging Process | See pre and post change comparison. | | | | |

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve manufacturability by qualifying MMT as a new final test site.

Change Implementation Status:In Progress

Estimated First Ship Date: August 17, 2020 (date code: 2034)

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

Time Table Summary:

| | | Ju | ne 20 | 20 | | | July | 2020 | | | Aug | gust 2 | 020 | |
|------------------------|---|----|-------|----|---|---|------|------|---|---|-----|--------|-----|---|
| Workweek | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| workweek | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| Initial PCN Issue Date | | | | Χ | | | | | | | | | | |
| Qual Report | | | | | | | | | | | | | | |
| Availability | | | | | | | Х | | | | | | | |

| Final PCN Issue Date | | | | Х | | | | |
|----------------------|--|--|--|---|--|--|---|--|
| Estimated | | | | | | | | |
| Implementation | | | | | | | Х | |
| Date | | | | | | | | |

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.

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_Qual_Report.pdf
PCN ASER-23WWAI681_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, 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.





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



Affected Parts List

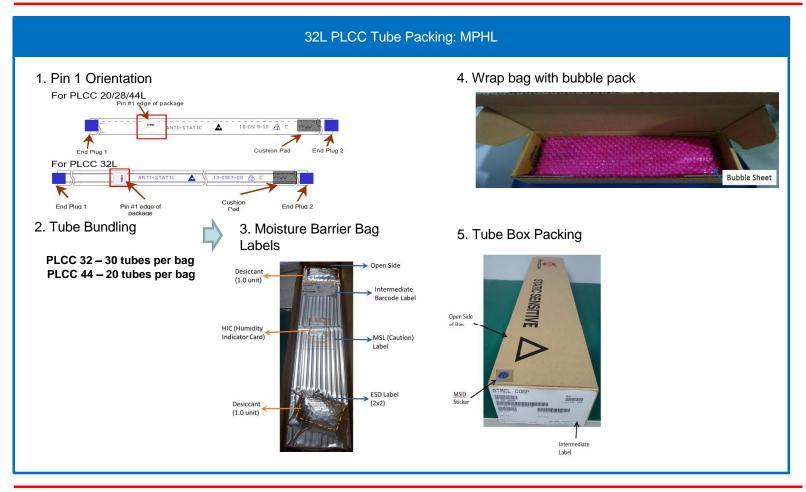
Packing Media: Tube

| 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

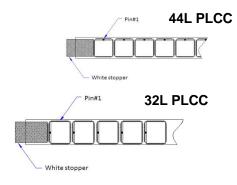




TUBE PACKING: PLCC Package

32L PLCC Tube Packing: MMT

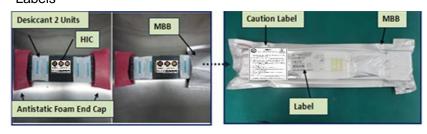
1. Pin 1 Orientation



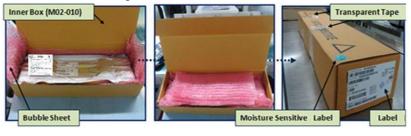
2. Tube Bundling

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

3. Moisture Barrier Bag Labels



4. Tube Box Packing

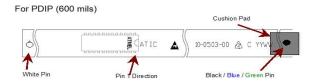




TUBE PACKING: PDIP Package

28L/32L/40L PDIP Tube Packing: MPHL 4. Wrap bag with bubble pack

1. Pin 1 Orientation



2. Tube Bundling

PDIP 32 - 40 Tubes/Bag PDIP 40 - 24 Tubes/Bag

3. Shielding Bag Labels



ESD label use for seal

Open Side of Bag

Intermediate Barcode Label



5. Tube Box Packing





TUBE PACKING: PDIP Package

32L PDIP Tube Packing: MMT

1. Pin 1 Orientation

Pin 1 Side White End Pin

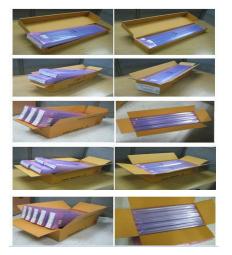
2. Tube Bundling

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

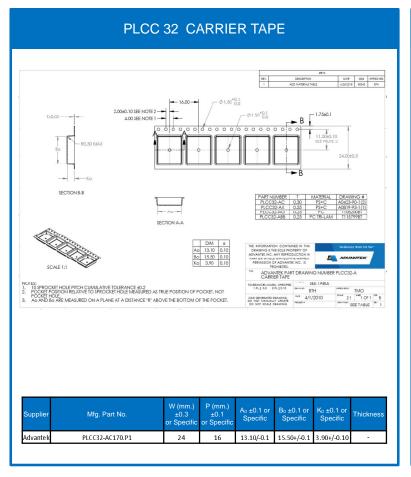
Packing Media: T/R

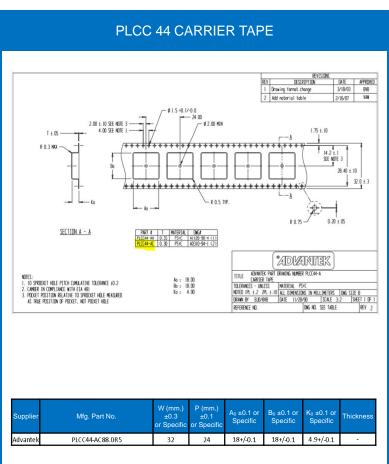
| CPN | Lead Count | Pkg Type | Base Quantity Multiple | Packing Media |
|-------------------|------------|----------|---------------------------|------------------|
| AT27BV256-70JU-T | 32.00 | PLCC | 750.00 | T/R |
| AT27LV256A-90JU-T | 32.00 | PLCC | 750.00 | T/R |
| AT27LV512A-90JU-T | 32.00 | PLCC | 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 |



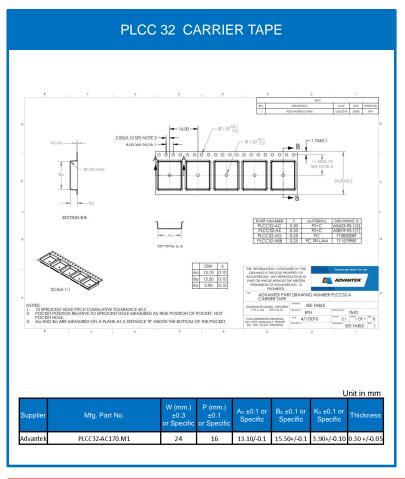
MPHL CARRIER TAPE

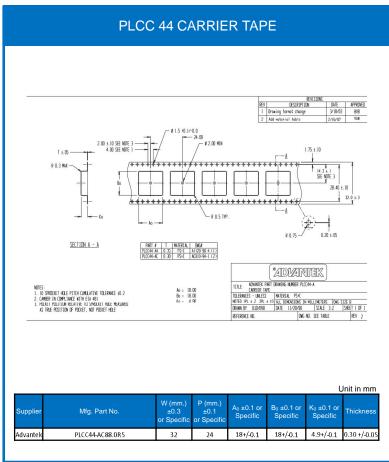






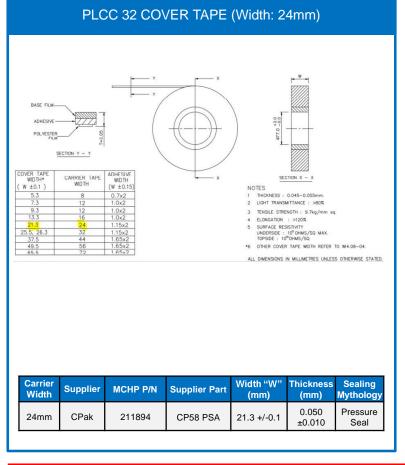
MMT CARRIER TAPE

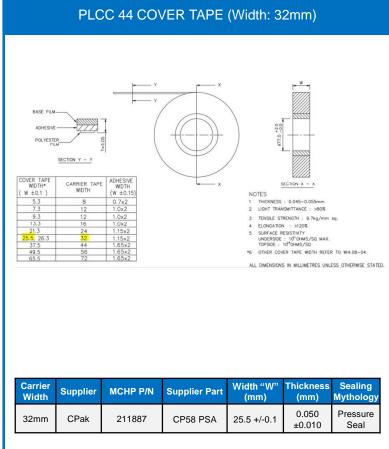






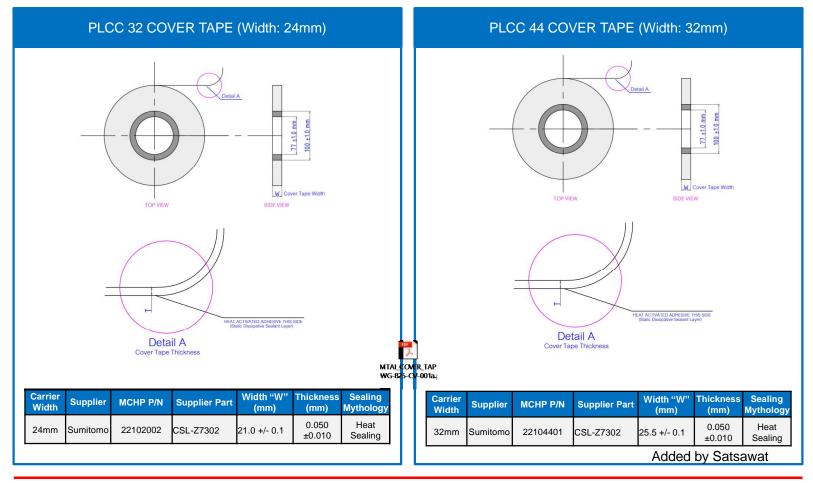
MPHL COVER TAPE





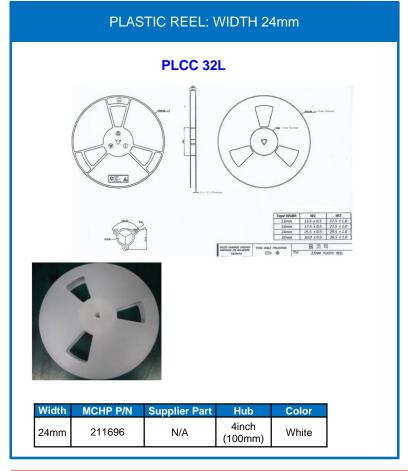


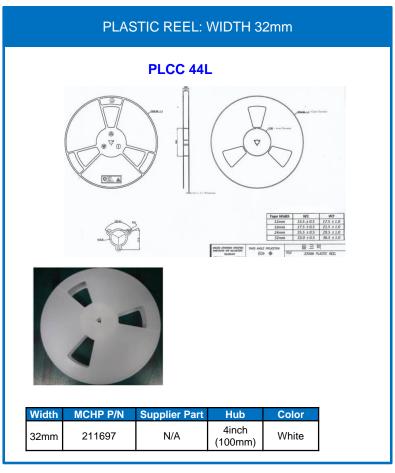
MMT COVER TAPE





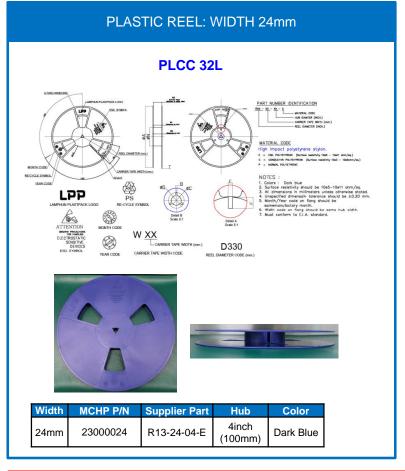
MPHL PLASTIC REEL

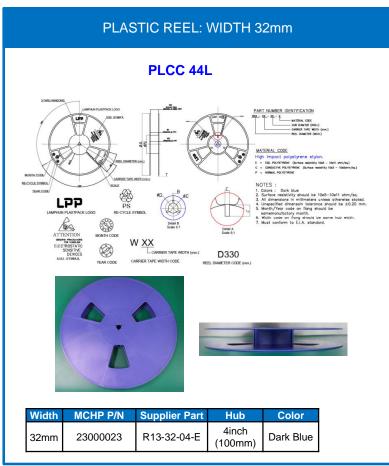






MMT MPHL PLASTIC REEL







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 +/- 0.2 |



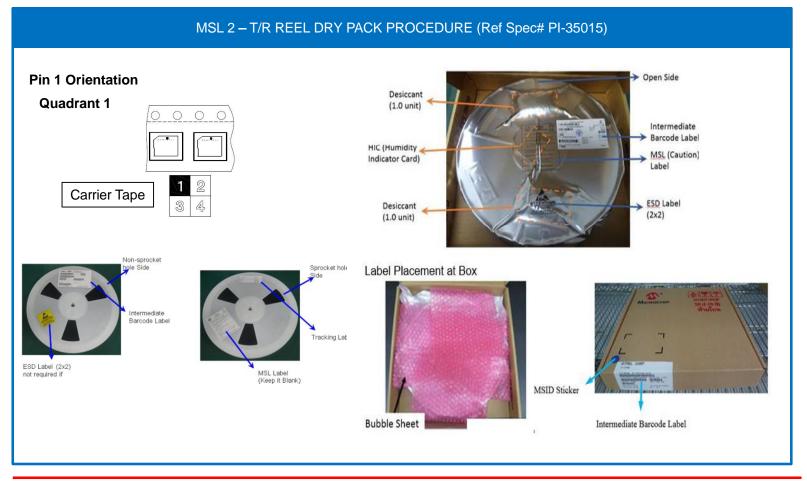
Plastic Reel (Width 32 mm)

| 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 |

Added by Panisara



TAPE AND REEL PACKING PROCEDURE MPHL





TAPE AND REEL PACKING PROCEDURE MMT





QUALIFICATION REPORT SUMMARY

PCN#: ASER-23WWAI681

Date: July 10, 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 | Results |
|------------------------|--|---------|
| Datalog/Bin Comparison | Compare overall yield, speed distribution, test bin pass/fail results. Accept if all match or justify the differences | Passed |
| 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% | Passed |

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

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AT27C512R-70JU-T

AT27C1024-45PU

AT27C1024-70PU

AT27C2048-90PU

AT27C020-55PU

AT27C020-90PU

AT27C020-55JU

AT27C020-90JU

AT27C020-55JU-T

AT27C020-90JU-T

AT27C4096-90PU

AT27C4096-55PU

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