



## PCN / EOL Notification

**Product Change Notification Number: CC070301**

**Date:** January 18, 2007

**Title:** AT24C02B / AT24HC02B New Catalogue Part Number & Physical Part Marking Schemes

**Product Identification:**

All Wafers and Packages of the AT24C02B and AT24HC02B, Industrial Temperature [See Attachment A](#)

**Reason for Change:**

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Design                 | <input type="checkbox"/> Processing          | <input checked="" type="checkbox"/> Logistics |
| <input type="checkbox"/> Manufacturing Location | <input type="checkbox"/> Quality/Reliability | <input type="checkbox"/> Material             |

**Change Description:**

Atmel is altering all current AT24C02B / AT24HC02B Serial EEPROM industrial part numbers in order to align with our new strategic part numbering scheme and streamlined manufacturing process for all new Serial EEPROM shrinks & devices. This PCN pertains to part number & marking scheme changes only and does not involve a shrink nor process technology change. Note: PCN CC053301, announcing AT24C02B / AT24HC02B devices, issued in 8/2005, is still valid.

In addition to being fully RoHS compliant, the new AT24C02B / AT24HC02B 8-SOIC and 8-TSSOP packages will consist of NiPdAu Lead Finish, denoted by "H" in the catalogue part number, versus current "U" Matte Tin Lead Finish designator.

The 8-ULTRA THIN MINI-MAP will remain unchanged, retaining "H" designator.

The 8-PDIP, 8-dBGA2, and SOT23 packages will continue to be produced with Matte Tin lead finish, retaining "U" catalogue part number designator.

**New catalogue part number scheme**

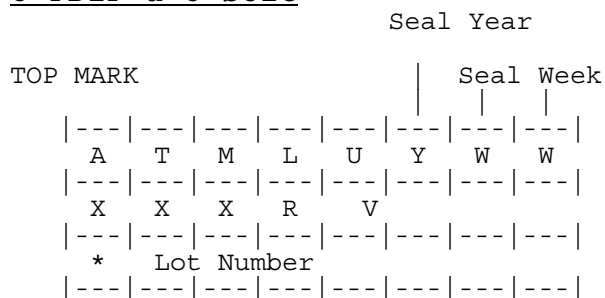
- Eliminating "-10"
  - Eliminating voltage designator (designating 1.8v).
  - Adding suffix "-B" to the catalogue part number will denote bulk form.
  - Adding suffix "-T" to the catalogue part number will denote Tape and Reel requirements.
- As the new catalogue part number will incorporate Tape and Reel requirements, the need for Tape and Reel SL's will be eliminated.

See **Attachment A** for part number cross reference table.

**New physical part marking scheme**

Physical part marking of the AT24C02B / AT24HC02B will be transferred to the following new scheme:

**8-PDIP & 8-SOIC**



- U = Material Set
- Y = Seal Year
- WW = Seal Week
- XXX = Device
- R = Revision (only if applicable)
- V = Voltage Indicator
- \*Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

**8-TSSOP**

TOP MARK

```

Pin 1 Indicator (Dot)
|
|---|---|---|---|
*   U   Y   W   W
|---|---|---|---|
X   X   X   R   V
|---|---|---|---|
    
```

U = Material Set  
 Y = Seal Year  
 WW = Seal Week  
 XXX = Device  
 R = Revision (only if applicable)  
 V = Voltage Indicator

BOTTOM MARK

```

|---|---|---|---|---|
C   O
|---|---|---|---|---|
A   A   A   A   A   A   A
|---|---|---|---|---|
<- Pin 1 Indicator
    
```

Lot Number  
 CO = Country of Origin  
 AAAAAA = Lot Number

**SOT23**

TOP MARK

```

|---|---|---|---|---|
Line 1 -----> X   X   V   W   U
|---|---|---|---|---|
|
|
*
|
Pin 1 Indicator (Dot)
    
```

XX = Device  
 V = Voltage Indicator  
 W = Write Protect Feature  
 U = Material Set

BOTTOM MARK

```

|---|---|---|---|
Y   M   T   C
|---|---|---|---|
    
```

Y = One Digit Year Code  
 M = Seal Month  
 TC = Trace Code

**ULTRA THIN MINI MAP**

TOP MARK

```

|---|---|---|
X   X   X
|---|---|---|
U   R   V
|---|---|---|
Y   T   C
|---|---|---|
*
|
Pin 1 Indicator (Dot)
    
```

XXX = Device  
 U = Material Set  
 R = Revision (only if applicable)  
 V = Voltage Indicator  
 Y = Year of Assembly  
 TC = Trace Code

**dBGA2**

TOP MARK

```

LINE 1----->   XXXU
LINE 2----->   YMTC
|<--- Pin 1 This Corner
    
```

XXX = Device  
 U = Material Set  
 Y = One Digit Year Code  
 M = Seal Month  
 TC = Trace Code

**Qualification Data:**       available       will be available       not applicable

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**Samples:**                             available                     will be available                     not applicable

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**Quantifiable Impact on Quality & Reliability:**

The new devices are a form, fit and functional equivalent of the current devices, which meet all databook specifications.

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**Proposed First Ship Date\*:**                    April 12, 2007  
**Last Time Buy Date:**                            July 12, 2007  
**Last Ship Date:**                                    January 12, 2008

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\*The Estimated Implementation Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.

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**Atmel Contact:**                    [pcnadm@atmel.com](mailto:pcnadm@atmel.com)

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Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice. All correspondence must be sent to the Quality Contact e-mail address listed above.

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**Attachment A**

<b>Current Part Number</b>	<b>Replacement Part Number</b>
AT24C02B-10PU-1.8	AT24C02B-PU (Bulk form only)
AT24C02B-10TSU-1.8 SL383 (T&R)	AT24C02B-TSU-T (T/R = 5k per reel)
AT24C02BN-10SU-1.8 SL383 (T&R)	AT24C02BN-SH-T (T/R = 4k per reel)
AT24C02BN-10SU-1.8 BULK	AT24C02BN-SH-B
AT24C02B-10TU-1.8 SL383 (T&R)	AT24C02B-TH-T (T/R = 5k per reel)
AT24C02B-10TU-1.8 BULK	AT24C02B-TH-B
AT24C02B-W1.8-11	AT24C02B-W-11
AT24C02B-W1.8-27	AT24C02B-W-11
AT24C02B-W1.8-7	AT24C02B-W-11
AT24C02BU3-10UU-1.8 SL383 (T&R)	AT24C02BU3-UU-T (T/R = 5k per reel)
AT24C02BY1-10YU-1.8 SL383 (T&R)	AT24C02BY6-YH-T (T/R = 5k per reel)
AT24C02BY6-10YH-1.8 SL383 (T&R)	AT24C02BY6-YH-T (T/R = 5k per reel)
AT24HC02B-10PU-1.8	AT24HC02B-PU (Bulk form only)
AT24HC02B-10TU-1.8 SL383 (T&R)	AT24HC02B-TH-T (T/R = 5k per reel)
AT24HC02B-10TU-1.8 BULK	AT24HC02B-TH-B
AT24HC02B-W1.8-11	AT24HC02B-W-11
AT24HC02BN-10SU-1.8 SL383 (T&R)	AT24HC02BN-SH-T (T&R = 4k per reel)
AT24HC02BN-10SU-1.8 BULK	AT24HC02BN-SH-B