

**Final Product Change Notification**

201805001F01

**Issue Date:** 31-Dec-2018

**Effective Date:** 30-Jun-2019

Dear *Emma Tempest*,

Here's your personalized quality information concerning products Premier Farnell PLC purchased from Nexperia.

For detailed information we invite you to [view this notification online](#)



**Management Summary**

- Introduce ASEN as additional source to secure capacity expansion DHVQFN
- Replace Au (gold) wire with Cu (copper) wire in bonding process in ATBK

**Change Category**

<input type="checkbox"/> Wafer Fab Process	<input checked="" type="checkbox"/> Assembly Process	<input checked="" type="checkbox"/> Product Marking	<input checked="" type="checkbox"/> Test Location	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input checked="" type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Process	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input checked="" type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Equipment	<input type="checkbox"/> Electrical spec./Test coverage

Introduce ASEN as additional source for assembly automotive DHVQFN packages

**Details of this Change**

Release Automotive DHVQFN 14-16-20-24 packages with Cu wire in ASEN (ASE Group Assembly & Test Plant Suzhou China) and convert ATBK (NXP Semiconductors Assembly & Test Plant Bangkok Thailand) to Cu wire

- Replace Au (gold) wire with Cu (copper) wire in bonding process in ATBK
- Introduce RT-PPF leadframe to meet post stress AEC-Q006 delamination criteria

Qualification in accordance to the Automotive Electronics Council:

- AEC-Q100-rev. H Stress Test Qualification for Integrated Circuits

- AEC-Q006-rev. A Qualification requirements for Cu wire interconnections

#### **Why do we Implement this Change**

- Create dual source capability
- Continued alignment with world technology trends on state of the art production tools
- Copper wire shows enhanced mechanical properties
- Increased environmental friendliness (eco-friendly)

#### **Identification of Affected Products**

- The changed products can be identified by date code
- Assembly location can be identified on top side marking and reel and box labels

### **Product Availability**

#### **Sample Information**

Samples are available upon request

#### **Production**

Planned first shipment 30-Jun-2019

### **Impact**

- No change in form, fit, function, quality or reliability anticipated
- No change in die (same electrical distribution)
- No change in data sheet and test limits
- No change in ordering code 12NC's

#### **Data Sheet Revision**

No impact to existing datasheet

#### **Disposition of Old Products**

Existing inventory will be shipped until depleted

### **Related Notifications**

<b>Notification</b>	<b>Issue Date</b>	<b>Effective Date</b>	<b>Title</b>
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201706004F0114-Jul-2017	12-Oct-2017		Release of Cu-wire bonding for the DHVQFN packages in ASEN and ATBK
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201708004F0101-Sep-2017	01-Dec-2017		Release of Cu-wire bonding for the DHVQFN packages in ASEN and ATBK (phase 8)
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### **Additional information**

Affected products and sales history information: see attached file

Self qualification: [view online](#)

Additional documents: [view online](#)

### **Timing and Logistics**

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 30-Jan-2019. Lack of acknowledgement of the PCN constitutes acceptance of the change.

### **Remarks**

Assembly location indicator suffix on reel and box label:

"X"= ASEN (ASE Group Assembly & Test Plant Suzhou China)

"n"= ATBK (NXP Semiconductors Assembly & Test Plant Bangkok Thailand)

### **Contact and Support**

For all inquiries regarding the ePCN tool application or access issues, please [contact Nexperia "Global Quality Support Team"](#).

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

**e-mail address** [PCN-Logic@nexperia.com](mailto:PCN-Logic@nexperia.com)

At Nexperia B.V. we are constantly striving to improve our product and processes to ensure they reach the

highest possible Quality Standards.

## About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 70 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

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