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# Azoteq Product Change Notice:

## IQS316

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**Issued Date: 15 December 2014**

**Effective Date: 1 January 2015**

**PCN Number: ACN\_316\_01**

## 1 Azoteq Change Notification Policy

Azoteq appreciates that our customers often have long product life cycles. As Azoteq values our customers' needs, we try to keep our products in production for as long as possible. There are, however, legal, environmental or performance requirements that will sometimes necessitate the need for a running change to a part. We weigh this very carefully against the inconvenience caused to customers already in production.

When a Product Change Notice has been given the time period for customers to place final orders is six months from the date of customer notification. During this period Azoteq will initiate production based only on orders received. Orders accepted during this period may be subject to specific MOQ and lead time as relating to the product. Azoteq will allow an additional six months for final orders to be delivered from stock after the initial 6 month period. This provides a 12 month window from Product Change Notification until final delivery of product. Any remaining stock sold after this period will be sold "as-is" with no warranty.

Azoteq allows customers to request reservations for the final stock quantity that may be available in the warehouses after the final production run. The reservation requests will be assigned on a first come, first serve basis and must be confirmed by a formal order within 7 days of being notified of a successful stock reservation request.

## 2 Detailed Description of Changes:

Azoteq will introduce a new lead frame to the IC package. It is a small mechanical change that will have no impact on the electrical or touch sensing performance. It is only the footprint on the PCB that will need to change.

### 2.1 Part Number Description Change

- Old part: IQS316-0-QNR
- New part: IQS316-0-QFR

### 2.2 Software Changes

There is no software change implemented from the old part (IQS316-0-QNR) to the new part (IQS316-0-QFR).

### 2.3 Internal Hardware Changes

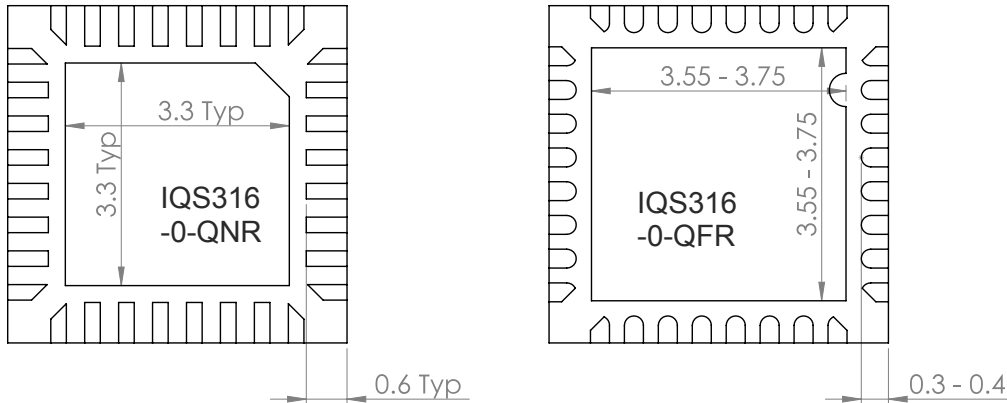
There is no change to the internal hardware from the old part (IQS316-0-QNR) to the new part (IQS316-0-QFR).

### 2.4 External Hardware (Mechanical) Changes

The overall physical size of the part ( $l \times w \times h$ ) and pitch of the pins did not change.



The mechanical dimensions of the saddle and length of the pins have changed from the old part (IQS316-0-QNR) to the new part (IQS316-0-QFR). The new dimensions are given below:



**Figure 2.1 Changes in Package Dimensions. Drawing for illustration only, not to scale.**

The bonding diagram, and therefore the pin out, has not been affected.

## 3 Impact on Customer Products

### 3.1 PCB footprint

Since the package has changed, an update to the PCB footprint is required.

### 3.2 MSL

The MSL rating of the IC did not change.

### 3.3 Impact on Performance

There is no impact to the performance of the capacitive sensing of the IC. Since exactly the same IC is used in a different package, there are no expected performance changes.

## 4 Recommended Action

Change the PCB footprint during the next board design cycle to facilitate placing the new part.

Should you have any issues with the timeline or content of this change, please contact the representative listed below within 60 days. No response will be deemed as customer's acceptance of the change and the change will be applicable as shown in the effective date set forth in this PCN.

For questions, concerns, or comments please direct all correspondence to Jean Viljoen (VP Marketing): [info@azoteq.com](mailto:info@azoteq.com)

## 5 Reference Documents/Attachments:

None.



## Appendix A. Contact Information

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