



AZOTEQ PRODUCT CHANGE NOTICE: IQS550

All product assembly has been transferred from primary assembly plant to the secondary site for the IQS550 QFN(7x7)-48 device.

Internal Assessment Date: March 2017

External Issued Date: August 2018

Effective Date: July 2017

PCN Number: ACN_IQS550_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.

The impact and implications of all changes described in our change notification has been thoroughly evaluated by Azoteq to maintain our standards of quality.

We have previously reviewed and accepted this product change internally, and with no impact to customer this running change was approved.

Having updated our Quality System to ISO:2015, we feel the need to disclose these minor updates by means of this PCN to customers.

2 Detailed Description of Changes

From June 2017 all IQS550 products have been manufactured exclusively at our second source IC assembly site. This pre-approved assembly site is the same outsourced semiconductor and test (OSAT) company as used for the primary source assembly site.

Manufacturing details (such as lead finish, mold compound and die attach glue) have been kept identical to ensure continuity with the primary assembly site. The wire bond material has however been updated.

This change is classified as a **minor** change, with no change in fit, function, reliability or process ability.

2.1 Part Number Description Change

No change.

2.2 Software Change

No change.



2.3 Internal Hardware Changes

The bond wires were updated as follows:

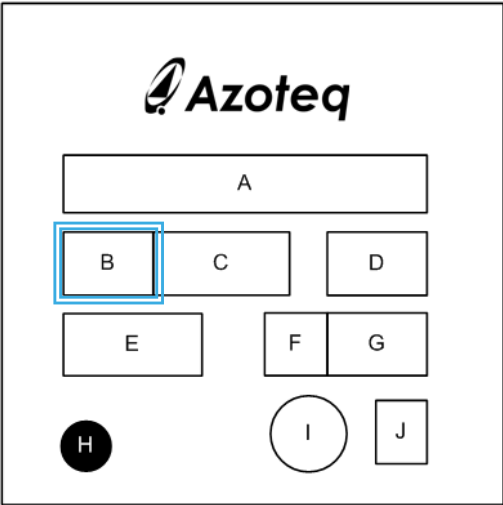
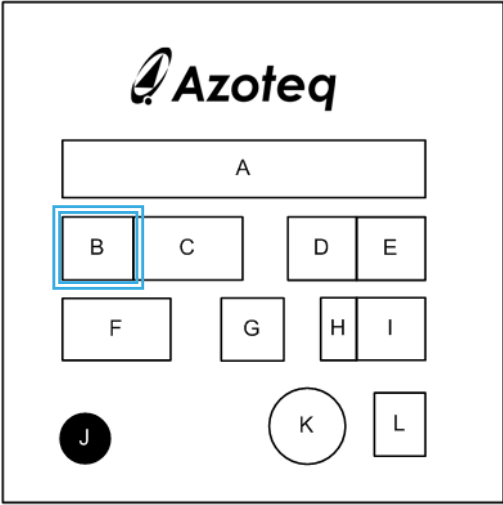
Table 2.1 Bond Wire Change

From	To
0.8 mil Au	0.8 mil 96.5% Ag

2.4 External Hardware (Mechanical) Changes

Traceability is maintained by means of an update to the IC marking.

Table 2.2 IQS550 IC Marking Update

From	To
Assembly plant marking (B below) was GH	Assembly plant marking (B below)
	


A quality improvement has furthermore been implemented by using an enhanced lead frame implementation:

- > Down-bonds / ground-bonds secured by groove
- > Better lead shape for sawing robustness due to better neck design

This has no impact on PCB footprint and customer PCB.



Table 2.3 Neck Design Improvement

From	To
	

3 Impact on Customer Product

None.

4 Recommended Action

None.

5 Reference Documents / Attachments

Updated Material Composition and Reliability Reports can be request from Azoteq if required.




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The following patents relate to the device or usage of the device: US 6,249,089; US 6,952,084; US 6,984,900; US 7,084,526; US 7,084,531; US 8,395,395; US 8,531,120; US 8,659,306; US 8,823,273; US 9,209,803; US 9,360,510; US 9,496,793; US 9,709,614; EP 2,351,220; EP 2,559,164; EP 2,748,927; EP 2,846,465; HK 1,157,080; SA 2001/2151; SA 2006/05363; SA 2014/01541; SA 2015/023634; SA 2017/02224;

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