



CUSTOMER ADVISORY ADV0115

EP20K200E and EP20K300E 652-Ball BGA Package Improvement

Change Description:

The EP20K200E and EP20K300E 652-Ball BGA packages will be re-enforced with a stiffener added to the top of the package.

Reason For Change:

This change improves EP20K200E and EP20K300E 652-Ball BGA package coplanarity during high temperature reflow resulting in improved package integrity. This change will not affect package thickness, overall package dimensions, or the moisture rating for this package.

Products Affected:

EP20K200E 652-Ball BGA packages.

EP20K300E 652-Ball BGA packages.

Product Traceability and Transition Dates:

This improved package will begin shipping on or after January 1, 2002 and will be marked on the package with topside date code 0201 or later.

Contact:

Qualification reports will be available February 2002. For additional information regarding the changes described in this document, please contact the Altera Customer Quality Engineering Department at (408) 544-6933.