



CUSTOMER ADVISORY

FineLine BGA[™] Packages

Altera is adding ASAT and ASE as additional sources of supply for the FineLine BGA[™] packages currently assembled by ANAM in the Philippines and Korea.

This change will affect the FineLine BGA[™] package outline thickness^{*}, which will result in a 2.10mm maximum package thickness. However, this change will not affect the moisture rating for these packages.

These changes improve Altera's ability to support the increasing demand for the FineLine BGA[™] packages. The assembly locations can be distinguished by the country of origin, which is marked on the topside of the device.

Assembly Location	Inclusion Date^{**}	Country of Origin Mark
ASAT	August 1, 1999	Hong Kong
ASE	August 1, 1999	Malaysia

If you need additional information, please contact your local Altera sales representative.

* All package dimensions are within those specified in JEDEC MO-151.

** Qualification reports are available upon request. Please contact Altera's Customer Quality Engineering Manager at (408) 544-7563 for more details.